

ProSYS™ Plus

Installation and Programming Manual



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Compliance Statement

Hereby, RISCO Group declares that the ProSYS Plus series of central units and accessories are designed to comply with:

EN50131-1, EN50131-3 Grade 3

EN50130-5 Environmental class II

EN50131-6 Type A

UK: BS 8243:2010, PD 6662:2010, ACPO (Police)

EN50136-1, EN50136-2 and EN50131-10

ATS6 for IP/GPRS; ATS 2 for PSTN

ATS EN50136-1 Category C (PSTN, GSM, IP transmission paths in parallel) Signaling security:

- Substitution security S2
- Information security I3



Contents

NTRODUCTION	9
System Architecture	10
System Capabilities	10
Main Features	13
Live Video Verification with VUpoint IP Cameras	13
Flexible Communication Options	14
Advanced Plug-In Communication Modules	
Multiple Reporting Destinations	14
Cloud Communication	
Monitoring, Notification, Operation and Control via the RISCO Cloud	
Enhanced Capabilities of Multi-Socket Communication Modules	
Parallel Communication	
Backup Communication	
RISCO Bus Configurations	
System Configuration Interfaces	
Installation and Device Allocation Tools	
Diagnostic Tests and Maintenance Features	
Event Logging	
Programmable Outputs	
False Alarm Reduction Features	
Home Automation	20
SAFETY WARNINGS AND PRECAUTIONS	21
NSTALLATION	22
MAIN TASKS FOR INITIAL SYSTEM SETUP	22
STEP 1: CREATING A PLAN FOR MOUNTING THE SYSTEM	23
Main Panel Mounting Considerations – Wireless Systems	23
RF Signal Loss Due to Common Building Materials	24
Central Mounting Location – Wireless Systems	24
STEP 2: WIRING, SETTINGS, AND MODULE INSTALLATIONS AT THE MAIN PANEL	
Main Panel Wiring Diagram	
Power Supply, Ground, Telephone Wiring	26
Replacing the Main Panel PCB	
Setting Main Panel DIP Switches and Jumpers	
Main Panel DIP Switch Settings	27
Main Panel Jumper Setting	
Describing Connectors & Ports on the Main Panel PCB	28



Installing Plug-In Communication and Audio Modules	29
Installing a GSM Module	29
Installing an IP Module	30
Installing the PSTN Modem Module	30
Installing an LRT Module	30
Installing the Voice Module	30
Installing the Listen-In & Speak Unit	31
Wiring other Devices at the Terminal Block	32
Connecting a Wired Keypad	
Connecting Auxiliary (12 V DC) Devices	32
Connecting the Bell / Loudspeaker	
Connecting the Bell Tamper	
Connecting the Box Tamper (Wall Tamper)	
Connecting 4-Wire Smoke Detectors	34
Wiring Utility Outputs	35
Wiring Utility Output 1	35
Placing the JMP 2 (UO1) Jumper	
STEP 3: BUS LINE INSTALLATIONS	
Bus Line Wiring	
Describing Bus Devices	
Describing Bus Detectors and their Connection Options	
Typical Wired Expansion Modules Installed on RISCO Bus Lines	
Describing Installer-Set ID Numbers for Bus Devices	
ID Number Formats	
Assigning ID Numbers (Setting DIP Switches) for Bus Devices	
Installing Bus Devices	
Installing Wired Keypads	
Installing Bus Detectors	
Installing Bus Zone Expanders	
Connecting Multiple Bus Detectors using Bus Zone Expanders	
Installing Power Supply Expansion Modules	
Installing Utility Output Expansion Modules	
Installing Wireless Expanders	
Installing Bus Sounders (Sirens)	
STEP 4: CONNECTING RELAY DETECTORS	
Installing Zone Expanders	
Defining Zone Termination Resistance	
Wiring Resistors for Zone Termination Resistance	
Zone Termination Configuration Options	
STEP 5: CONNECTING THE BACKUP BATTERY AND MOUNTING THE MAIN PANEL	
Connecting the Backup Battery	
Mounting the Main Panel	48



SYSTEM INITIALIZATION, DEVICE ALLOCATIONS & GENERAL SYSTEM CONFIGURATION 49

STEP 1: DESCRIBING KEYPAD CONTROLS AND INSTALLER MENUS	49
Describing Dynamic Keypad Menus	49
Table of Keypad Buttons	49
Designating Labels	49
Entering the Installer Programming Menu at Initial System Setup	50
Subsequently Accessing Installer Menus	50
STEP 2: POWERING-UP AND INITIALIZING THE SYSTEM	50
System Power-Up and Language Selection	50
Viewing Zones, Defining Partitions, and Setting the Time & Date	51
Viewing Zones, Defining Partitions and Setting Time/Date at Initialization	51
Keypad Timeout	52
Viewing & Updating Zones & Defining Partitions after Initialization	52
STEP 3: ALLOCATING AND CONFIGURING INSTALLED COMPONENTS	53
Auto-Setting Scan for Communication Modules & Bus Devices	53
Describing Auto-Setting Results	54
Performing a Bus Test	54
Manually Allocating & Configuring Communication Modules	55
GSM Modules	55
Entering or Deleting a SIM Card PIN	55
Defining APN Automatically and Manually	56
IP Modules	56
Setting Dynamic IP / Static IP	56
PSTN Modem Module	56
Long-Range Radio Transmitter Module	56
Manually Allocating and Configuring STU Adapter	57
Manually Allocating & Configuring other Modules and Bus Devices	57
Wired Keypads	57
Zone Expanders	58
Utility Output Modules	58
Power Supply Modules	59
Wireless Expanders	59
Proximity Key Readers	59
Voice Module	60
Sounders (Sirens)	60
Bus Zones (Bus Detectors)	
Bus Zone Expanders	61
STEP 4: ALLOCATING WIRELESS ZONES	
Allocating Wireless Expanders	
Allocating Wireless Devices	
Allocating Wireless Devices via RF Transmission	
Wireless Device RF Transmissions	63



Allocating Wireless Devices via Code	64
STEP 5: BASIC ZONE CONFIGURATION FOR ALL ZONE TYPES	65
Defining Basic Parameters	65
Describing Zone Information Displayed at the Keypad	65
Defining Zone Parameters using the "One-By-One" Option	65
Defining Zone Parameters using the "By Category" Option	66
Defining Zone Termination Resistance using the "Resistance" Option	67
STEP 6: ADVANCED ZONE CONFIGURATION FOR BUS ZONES AND WIRELESS ZONES	68
Advanced Programming for Wireless Zones	68
Measuring Background Noise Level and Defining the Threshold Limit	69
Performing a Wireless Comm. Test for Measuring Signal Strength	
STEP 7: CONFIGURING SYSTEM COMMUNICATION	71
Defining Primary Communication Channels & Parameters	71
Defining Communication with the Monitoring Station	72
Enabling Monitoring Station Communication	72
Defining Monitoring Station Account Parameters	72
STEP 8: CONFIGURING CLOUD CONNECTIVITY	73
Enabling / Disabling Cloud Communication	73
Defining RISCO Cloud Connectivity	73
STEP 9: CONFIGURING COMMON SYSTEM PARAMETERS	74
Defining System Users	74
Defining User Codes	74
Changing the Default Installer Code	75
Changing the Default Grand Master Code	75
Defining Follow Me Destinations	75
Enabling Follow Me	75
Defining Follow Me Parameters	76
Defining System Timers	76
Defining All Additional Parameters	76
INSTALLER PROGRAMMING	77
DEFINING PARAMETERS – INSTALLER PROGRAMMING MENU	77
System	
Timers	
Controls	
Labels	
Sounds	
Settings	
Automatic Clock	
Service Information	
Firmware Update	
Zones	
Longs	103



Parameters	104
One-By-One	104
By Category	104
Bus Zone: OPR12 (WatchOUT PIR)	118
Bus Zone: iWISE DT Grade 2	
Bus Zone: (Industrial) Lunar /BWare/iWISE DT Grade 3	120
Bus Zone: iWISE QUAD Grade 2	
Bus Zone: iWISE/BWare QUAD Grade 3	
Bus Zone: ODT15 (WatchOUT DT)	123
Bus Zone: WatchIN DT Grade 3	124
Bus Zone: Seismic	125
Wireless Zones: 1-Way and 2-Way Smoke	127
Wireless Zones: 2-Way PIR, WatchOUT and Wireless IR Beam	127
Wireless Zones: 2-Way Magnetic Contact Detector (X73)	128
Resistance	130
Testing	131
Cross Zones	132
Alarm Confirm	134
Outputs	135
Nothing	135
System	136
Partition	139
Zone	143
Code	144
Pattern of Operation for Utility Outputs	145
Latch N/O & Latch N/C	145
Pulse N/O & Pulse N/C	145
STU Testing	146
Codes	146
User	146
Grand Master	148
Installer	149
Sub Installer	149
Code Length	149
Communication	150
Method	150
Monitoring Station	163
Configuration SW	178
Follow Me	181
Cloud	187
Audio	190
Messages	190



Local Anr	ouncements	192
Install		193
Bus Devi	ces	193
Wireless	Devices	197
Devices		198
Keypad		199
Keyfob		200
	Key Reader	
	pply	
	er Programming Menu	
_	aller Programming Menu after Initial System Programming	
	tly Accessing & Exiting Installer Programming Menu	
	nufacturer's Programming Defaults	
	METERS – ADDITIONAL INSTALLER MENUS	
	lenu	
	Menu	
	l	
_	Menu	
	ce Menu	
	W	
	e Keyfob Menu	
	'STEM	
NSTALLER RESI	PONSIBILITIES FOR ASSISTING THE CLIENT	216
APPENDIX A:	TECHNICAL SPECIFICATION	217
APPENDIX B:	WIRING	219
APPENDIX C:	INSTALLER EVENT LOG MESSAGES	221
APPENDIX D:	TROUBLESHOOTING	230
APPENDIX E:	LIBRARY VOICE MESSAGES	234
APPENDIX F:	MONITORING STATION REPORT CODES	235
APPENDIX G:	REMOTE SOFTWARE UPGRADE	240
APPENDIX H:	EN50131 & EN50136 COMPLIANCE	242
APPENDIX I:	PROSYS PLUS ACCESSORIES	245
APPENDIX J:	INSTALLER PROGRAMMING MAPS	250



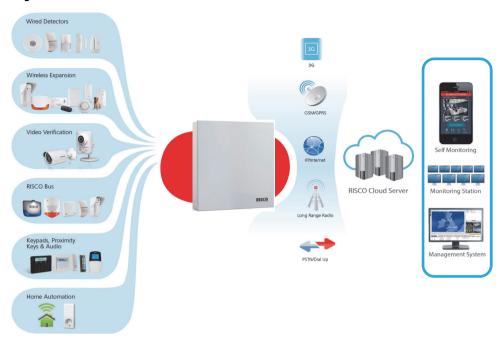
Introduction

The ideal solution for residential, commercial, industrial, and enterprise sectors, ProSYS Plus is a Grade 3 compatible, super-hybrid security system that offers communication flexibility and advanced system control via Smartphone and Web user apps, scalable up to 512 zones – using various combinations of wired, bus, and wireless detectors and accessories. ProSYS Plus offers the following:

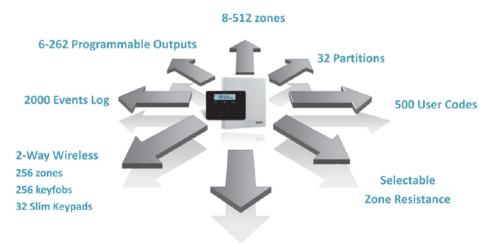
- ✓ Various system connectivity options, including via the RISCO Cloud for user control, operation and notification via RISCO's Smartphone and Web user apps, for communicating and reporting to the monitoring station, and for utilizing RISCO's VUpoint IP cameras – for real-time, live video verification of events
- ✓ One or more multi-socket communication modules (IP, GSM 2G or GSM 3G) that provide multiple, simultaneous communication channels for direct communication, and for communication via the Cloud
- ✓ Additional communication modules single-socket GSM/GPRS and IP modules, as well as PSTN and LRT modules
- ✓ On-the-fly zone expansion additional zone licenses available for purchase which are activated using HandyApp
- ✓ Hybrid system supporting installation of any combination of RISCO peripherals: wireless devices (1-way, 2-way), bus devices, and wired relay detectors
- ✓ Four independent RISCO bus lines (RS485 cables) that support a multitude and variety of bus-connected RISCO peripherals and expansion modules, installed in maximally efficient topologies for saving on lengthy bus cable costs
- ✓ Selectable "end-of-line" termination resistance values, compatible also for retrofit installations utilizing relay detectors of various termination resistance values
- ✓ Auto-Install[™] technology (Auto Setting bus scanning feature) for providing quick allocation and configuration of system-connected communication modules and bus-connected devices
- ✓ Advanced tests and diagnostics for the system and for individual peripherals
- ✓ Compatibility for multi-site projects with SynopSYS RISCO's "In-House Central" Security Management Solution
- ✓ An IP/GSM Receiver package available for monitoring stations
- ✓ Support for SIA IP
- √ Advanced remote/local configuration & diagnostics via Configuration Software



System Architecture



System Capabilities



48 Wired Keypads



Main Capabilities	Description	
Grade compatibility	Grade 2 and 3 (selectable)	
Total zones	8-512 (8 on main panel terminal block) – all zones are fully supervised and programmable	
Zone types	35	
Bus zones	512	
Hard wired zones	512	
Wireless zones	256 (1-way & 2-way)	
Partitions & groups	32 partitions (any zone can be associated to any partition)	
RISCO bus lines (RS485)	4 (each independent of the others). Each bus line has a dedicated quick connector option on main panel PCB. Each bus supports up to 32 bus devices (128 total)	
 Fully selectable termination resistance values. Five zone termination options available: normally closed (NC), normally open (NO), end-of-line resistance(EOL), double end-of-line resistance (DEOL), and triple-end-of-line-resistance (TEOL) 		
Utility outputs	6—262, programmable (6 on main panel terminal block)	
User codes	 500 user codes, with choice of authority levels 1 code each for installer, sub-installer and Grand Master 	
Event log	2000	
Wired keypads	48	
Wireless keypads	32	
Wireless keyfobs	256 (1-way, 2-way) including panic keyfob	
Proximity key readers	64	
Bell tamper input	nput Yes (main panel terminal block)	
Box tamper input	Yes (main panel terminal block)	
Communication modules	 Multi-socket IP (various models available) Multi-socket GSM-2G, and GSM-3G Single-socket GSM/GPRS Single-socket IP PSTN STU (UK) LRT (Long-range Radio Transmitter) 	
Audio Modules	Modules • Voice Module • Listen-In & Speak Unit	



Main Capabilities	Description	
Expansion capabilities	 Wireless Expander (868MHz or 433MHz) Bus Zone Expanders Zone Expanders (for relay detectors): 16-zone, 8-zone, single-zone Output Expanders (4 X 3A, 8 X 100mA) Power Supply Expanders (1.5A, 3A) 	
Monitoring station	Up to 3 accounts, direct connection using SIA IP, or via Cloud with the RISCO IP Receiver installed at the monitoring station	
Reporting formats	Contact ID , SIA, SIA-IP	
Follow-Me	Up to 64 destinations, reporting via SMS, E-mail, or voice	
IP Receiver software	Yes	
SynopSYS connectivity	By IP / GPRS	
CS connectivity	Through various communication channels or direct connection	
Power input	4A	
Wired sirens	32	
Wireless sirens	32	
Automatic program scheduling	64	



Main Features

Live Video Verification with VUpoint IP Cameras

ProSYS Plus supports VUpoint – RISCO's revolutionary, live video verification solution for residential and commercial installations that seamlessly integrates an unlimited number of IP cameras to provide an unprecedented level of security and live video monitoring capabilities for monitoring stations and end-users alike.

- VUpoint offers seamless integration of ProSYS Plus with IP cameras
- A unique solution that offers real-time video verification of alarms and events for monitoring stations, business & home owners
- Live video available on-demand
- VUpoint may be added to any ProSYS Plus system connected to the RISCO Cloud, and is not dependant on the firmware version installed
- Compatible also for Grade 3 installations



VUpoint Indoor Cube IP Camera



VUpoint Outdoor Bullet IP Camera

Powered by the RISCO Cloud, VUpoint enables live video streaming from IP cameras to be viewed "on-demand" using the iRISCO Smartphone or Web user application. VUpoint can be configured so that any event—intrusion, safety, or panic—can activate the IP camera.

For verification purposes, live viewing of video of events can greatly assist monitoring stations in identifying costly false alarms, and enabling a greater operational efficiency.

Download the iRISCO app from the Apple Store for iOS devices and the Play Store for Android devices. For more information contact your RISCO distributor or go to: www.riscogroup.com



Flexible Communication Options

ProSYS Plus offers a multitude of communication channels and reporting formats, enabling monitoring, notification & operation and maintenance for end users, installers and monitoring stations.

Advanced Plug-In Communication Modules

System communication is enabled by easy-to-install plug-in communication modules:

- Multi-socket GSM 2G and GSM 3G modules
- Multi-socket IP modules
- Single-socket GSM/GPRS module
- Single-socket IP module
- PSTN Module
- STU module (UK)
- LRT module

Multiple Reporting Destinations

- System Users: System users can use the Cloud-based iRISCO smartphone and Web User interface for receiving event notifications. Also, multiple Follow-Me recipients are notified of events via voice (voice mail), SMS, or e-mail.
- Monitoring Station: Events are reported to monitoring station(s) directly or via the RISCO Cloud, in any of the supported channels. ProSYS Plus supports all major monitoring station reporting formats and protocols - including direct connection to the monitoring station using SIA IP, or via the Cloud with the RISCO IP Receiver installed at the monitoring station.
- **Installer:** According to how the system is programmed, installers can also receive Follow-Me reporting, just like system users.

Cloud Communication

Cloud communication is available either from a private server, or hosted by the RISCO Cloud – RISCO's application server that enables communication to monitoring stations and to end users utilizing event reporting, self-monitoring and operational functions via the iRISCO Smartphone app and Web user interface. The Configuration Software can also be connected via the RISCO Cloud to perform remote system configuration and diagnostics.





Monitoring, Notification, Operation and Control via the RISCO Cloud

Self-Monitoring for System Users via Smartphone & Web Applications

Powered by the RISCO Cloud, the iRISCO Smartphone app and Web User Interface empower system users with self-monitoring, notification, control, and operation of their systems remotely – anywhere, anytime, with or without a monitoring station.

iRISCO Smartphone App

The iRISCO Smartphone app provides smart and easy control of the system, enabling on-the-go users to receive event notifications, view the system status and event history, arm/disarm the system, activate home automation devices, bypass zones, and utilize IP cameras for visual verification and self-monitoring. iRISCO is available for iOS and Android.

Web User Interface

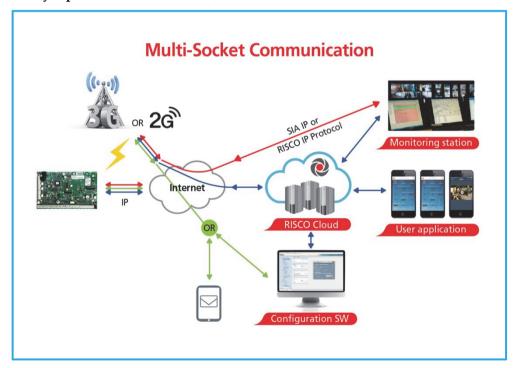
RISCO's Web user interface enables system users to monitor, control and configure their system via their computer's Web browser. In addition to the capabilities of the iRISCO Smartphone app, the Web user interface enables registering the system, adding system users, and more.



Enhanced Capabilities of Multi-Socket Communication Modules

Multi-socket communication modules each provide multiple, simultaneous communication channels for services and reporting (for example to the user and monitoring station) – directly, or via the Cloud. Multi-socket module services and reporting abilities include:

- iRISCO Smartphone app & Web user interface: Connected via RISCO Cloud
- Monitoring Station: Direct connection using SIA-IP, or with the RISCO IP Receiver installed at the monitoring station
- Configuration Software: Connection with panel via RISCO Cloud or directly using various channels, including GSM & IP networks see CS documentation
- Follow-Me: Events are sent to FM destinations by E-mail, SMS, or voice
- **SynopSYS:** Connection via IP / GPRS





Parallel Communication

Parallel communication can be accomplished as follows:

- If using single-socket communication modules (IP and GPRS/GSM), one of the modules is connected to the Cloud, while the other module is connected directly (for example, for reporting to the monitoring station). Each single-socket module supplies a single communication channel, thus providing the "parallel" communication capabilities by utilizing the two modules.
- If using multi-socket modules (IP, GSM 2G, GSM 3G) a single multi-socket
 module provides multiple communication channels simultaneously ("in parallel")

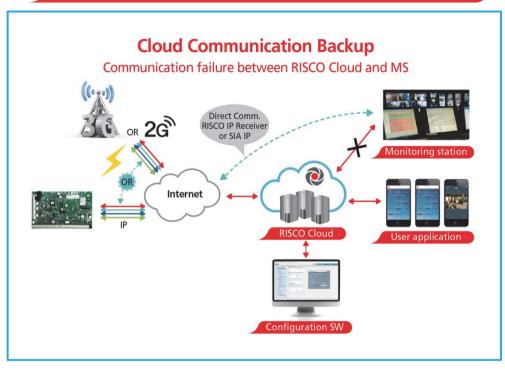
 for example, for user reporting via the Cloud while simultaneously reporting to
 the monitoring station directly. If two multi-channel modules (IP and GSM) are
 installed, each module provides its own parallel communication capabilities.

Backup Communication

Backup communication can be accomplished as follows:

- If using single-socket communication modules (IP and GPRS/GSM), a total of two communication channels are available one channel per module, which can utilize a variety of reporting frameworks directly, and through the RISCO Cloud (for example, one channel reporting to the user via the Cloud, while the other channel simultaneously reporting directly to the monitoring station). Each of these modules can be used for the primary communication channel or as a non-Cloud backup, but Cloud backup is not available. NOTE: PSTN can also be used as a backup or primary channel to the monitoring station.
- If using multi-socket modules (IP, GSM 2G, GSM 3G), any individual multi-socket module installed can provide multiple, simultaneous communication channels with a variety of reporting frameworks, both directly and through the RISCO Cloud for example, one channel reporting to the user via the Cloud, while the other channel simultaneously reporting directly to the monitoring station. If both IP and GSM multi-socket modules are installed, when utilizing direct communication either of the modules can take over and connect as a communication failure backup if the other fails. NOTE: PSTN can also be used as a backup or primary channel to the monitoring station.







RISCO Bus Configurations

The ProSYS Plus provides 4 independent RISCO Bus lines (RS485) for communicating and powering bus-connected devices (expansion modules, detectors, sounders, and other peripheral devices). The RISCO bus configurations can be in any combination of daisy chain, spur or star topologies.

System Configuration Interfaces

- Wired keypad
- Configuration Software

Installation and Device Allocation Tools

- Auto Setting: This feature scans the bus lines to find all installed communication modules and bus devices in the system. As you view the results, you allocate (enable) each, and then you can configure their settings on-the-fly, or later during installer programming.
- Bus Test: This test finds each installed bus device and communication module
 to verify adequate bus connectivity and communication quality on a scale of
 0-100%, whereas a result of 97% or less means there is a bus connection
 problem. Results are individually displayed on the keypad or the
 Configuration Software.
- Background noise-level threshold & calibration: For wireless devices, you can
 measure ("calibrate") the background noise that the main panel detects (to
 provide an indication whether the main panel is mounted at a good location),
 and also define the acceptable threshold value (to decide how much
 background noise your system will tolerate before it generates jamming events).
- Wireless Communication Test: This tests and displays the signal strength between the wireless device tested and the main panel, as an indicator of whether the mounting location of the wireless device is adequate.

Diagnostic Tests and Maintenance Features

Various tests are available to perform during and after installation, such as the **Walk Test**, **Follow-Me Test**, **GSM Signal Strength Test**, **Monitoring Station Test**, and more (see *Testing the System*, *page 215*, and the respective sections in this manual).

Service Mode silences all tamper alarms at the main panel and peripheral devices/accessories for the duration of time required for device battery replacement.



Event Logging

The ProSYS Plus has the capability of storing up to 2000 events, including alarms, arming, disarming, bypassing, troubles, restores, and resets. These events are logged in order, according to date and time – and when applicable, according to zone, partition, area, user code, keypad, etc. Events are viewed on the keypad. Installers can also view events with the Configuration Software, and system users can also view events with the iRISCO Smartphone app and the Web user interface.

Programmable Outputs

The system has 6 programmable outputs on the main panel PCB, but the number of outputs is expandable up to 262. Outputs are for operating external devices in response to activities related to alarms, zones, partitions, system events, user actions, and scheduled events. Operation of outputs can be automated to operate according to a pre-defined schedule.

False Alarm Reduction Features

Features to help reduce false alarms include:

- Zone crossing
- Swinger limit (swinger shutdown) programmable by zone
- Audible exit/entry delay & exit restart
- Audible exit fault
- Soak test by zone
- Pulse count by zone
- Transmission delay
- Arm/disarm bell squawk
- Double verification of fire alarms
- Sequential alarm confirmation

Home Automation

ProSYS Plus supports RISCO's Cloud-based Home Automation services.



Safety Warnings and Precautions

WARNING: Installation or usage of this product that is not in accordance with the intended use and manufacturer instructions can result in damage, injury or death. The system is NOT meant to be installed or serviced by those other than professional security alarm system installers.

WARNING: Make sure this product is not accessible by those for whom operation of the system is not intended, such as children.

WARNING: The main panel should be connected to an easily-accessible wall outlet so that power can be disconnected immediately in case of malfunction or hazard. If it is permanently connected to an electrical power supply, then the connection should include an easily-accessible disconnection device, such as a circuit breaker.

WARNING: Coming into contact with 230 VAC can result in death. If the main panel is open while it is connected to the electrical power supply, do not touch any AC electrical wiring to/from the mains fuse terminals nor the mains fuse terminals.

WARNING: Ensure proper grounding requirements are implemented for the system and peripherals, where required.

A WARNING: Replace battery with correct type to avoid the risk of explosion.

 $oldsymbol{lack}$ **CAUTION:** Dispose of batteries according to applicable law and regulation.



Installation

Main Tasks for Initial System Setup

Installing and setting up the system should be performed by a professional alarm system installer. Presented here is a typical order of performing these tasks:

System Installation

- Step 1: Creating a Plan for Mounting the System
- Step 2: Wiring, Settings, and Module Installations at the Main Panel
- Step 3: Bus Line Installations
- Step 4: Connecting Relay Detectors
- Step 5: Connecting the Backup Battery and Mounting the Main Panel

System Initialization, Device Allocation & General Configuration

- Step 1: Describing Keypad Controls and Installer Menus
- Step 2: Powering-Up and Initializing the System
- Step 3: Allocating and Configuring Installed Components
- Step 4: Allocating Wireless Zones
- Step 5: Basic Zone Configuration for All Zone Types
- Step 6: Advanced Zone Configuration for Bus Zones and Wireless Zones
- Step 7: Configuring System Communication
- Step 8: Configuring Cloud Connectivity
- Step 9: Configuring Common System Parameters

Installer Programming

- Defining Parameters Installer Programming Menu
- Exiting Installer Programming Menu after Initial System Programming
- Defining Parameters Additional Installer Menus

System Testing

Various system tests are available for the ProSYS Plus. Relevant tests should be performed for verifying system operability during initial system setup, as well as after completion of the initial system setup (before system handover to the client). Tests are also available for system diagnostics. See *Testing the System, page 215*.

Installer Responsibilities in Assisting the Client

Upon handing over a fully configured and fully tested system to the client, a checklist is provided listing some of the main areas that the installer should assist the client with. See *Installer Responsibilities for Assisting the Client, page 216*.

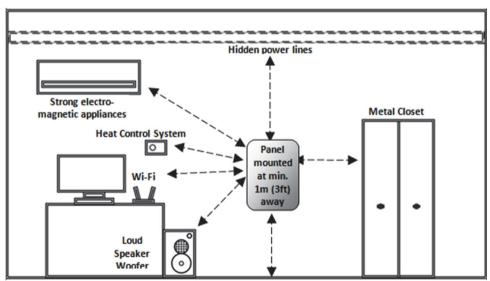


Step 1: Creating a Plan for Mounting the System

Before you mount the main panel and peripheral system components, make a plan for obtaining the most optimal location. Depending on the configuration requirements, the main panel should typically be:

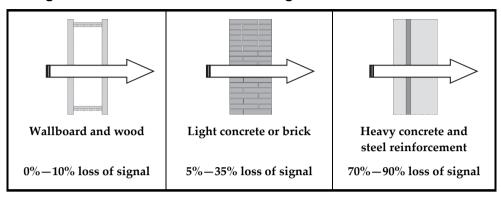
- Centrally located for minimizing lengthy bus line/expansion module wire runs
- In a location with good GSM reception
- In a secure location that is hidden and not reachable by those for whom use is unintended (such as small children)
- Near an uninterrupted 230 VAC electrical outlet, an easily-accessible disconnection device such as a circuit breaker (if permanently connected to the electrical power supply), grounding connection, and network cable outlet, as needed
- In a dry place, away from sources of disturbance (including electrical, RF and heat), and not near large metal objects which may hinder reception

Main Panel Mounting Considerations – Wireless Systems

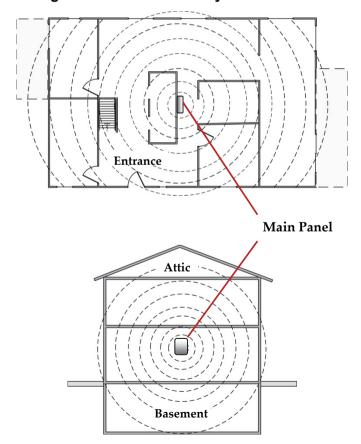




RF Signal Loss Due to Common Building Materials



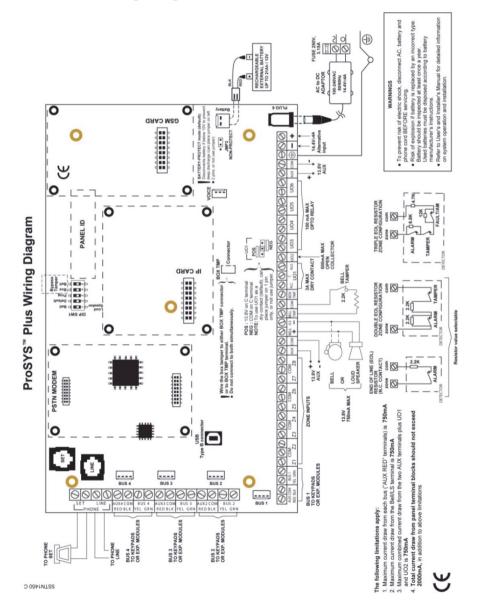
Central Mounting Location – Wireless Systems





Step 2: Wiring, Settings, and Module Installations at the Main Panel

Main Panel Wiring Diagram





IMPORTANT:

- Electrical AC wiring should be performed by a certified electrician, and in compliance with applicable electrical code, laws and regulation. Refer to the box/enclosure instructions.
- The main panel should be connected to an easily-accessible wall outlet so that
 electrical power can be disconnected immediately in case of malfunction or
 hazard. If it is permanently connected to an electrical power supply, then the
 connection should include an easily-accessible disconnection device, such as a
 circuit breaker.

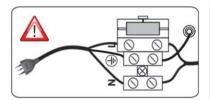
WARNINGS:

- To prevent risk of electric shock, **DO NOT** apply electrical power to the main panel nor connect the main panel's backup battery at any time during installation or servicing. The panel is not to be powered up until system initialization (see *Step 2: Powering-Up and Initializing the System, page 50*).
- To prevent damaging the system, replace fuses only with fuses of the same type and rating (250V, 3.15A).
- To prevent damage, injury or death, under no circumstances should a mains power cable be connected to the main panel/PCB other than to the mains fuse terminal block.

Power Supply, Ground, Telephone Wiring

NOTE: The electrical power rating is specified on the label located next to the fuse.

- > To wire the power supply, telephone and ground wiring:
- 1. **Do not connect AC power** at this point of the installation.
- 2. Refer to the box/enclosure instructions.
- 3. The system is powered by an AC/DC adaptor (100-240V, 50/60Hz, 14.4V—4A) that is pre-installed inside the main panel enclosure. Connection to AC must be permanent and connect through the mains-fuse terminal block as follows:



IMPORTANT: Clamp power cable wires to the box/enclosure housing using plastic ties, and thread them through the arched tie-down brackets on the base of the box/enclosure housing (see box/enclosure instructions).



- 4. **[For PSTN only]:** At the terminal block on the main panel PCB, connect the telephone line to the **Line** terminals (or **PLUG10** jack) and connect the telephone unit to the **Set** terminals (or **PLUG9** jack). See *Main Panel Wiring Diagram*, page 25.
- 5. Ensure correct ground wiring as follows:
 - a. At the center (ground) fuse terminals shown above, ensure that one center terminal is wired to the box / enclosure. Then wire the power cable's ground wire to the other center terminal.
 - b. A ground wire connects between the box/enclosure and its cover. Refer to the box/enclosure instructions for details.

Replacing the Main Panel PCB

If replacing the main panel PCB, in order to prevent bus sirens from sounding, before you power-off the main panel first enter the installer Programming mode. Then you can power-off the main panel and replace the PCB assembly.

Setting Main Panel DIP Switches and Jumpers

Main Panel DIP Switch Settings

Set the following DIP switches at the main panel PCB (SW1) as required:

DIP switch (SW1)	State / Description	
1: Bell	ON (Default): Bell: For a bell or electronic siren with a built-in siren	
	driver.	
	OFF : For a loudspeaker without a built-in sound driver.	
	ON: Intended for installer programming at initial system setup (from	
	the installer Programming menu), this setting allows the installer	
	to use the keypad before it's allocated. Caution: If set to ON any	
2: Default	time after exiting the installer Programming menu, it will reset	
2. Delault	installer, sub-installer and Grand Master codes to factory	
	defaults.	
	OFF (Default): For after exiting installer Programming menu – such as	
	during installer programming from other installer menus (other	
than Programming menu), and during regular system open		
3: Program	OFF (default). NOTE: Not to be set by installer—factory use only.	
4: Box tamper	ON: Box tamper protection is bypassed (not active)	
bypass	OFF (Default): Box tamper protection is not bypassed (active)	
5: Bell tamper	ON: Bell tamper protection is bypassed (not active)	
bypass	OFF (Default): Bell tamper protection is not bypassed (active)	



Main Panel Jumper Setting

On the main panel PCB, set the following jumpers as required.

JMP 2 (UO1) jumper: For configuring the UO1 (utility output 1) connection characteristics for powering an external self-powered device, such as a siren. See *Placing the JMP 2 (UO1) Jumper, page 35*.

JMP 3 (Non Protect) jumper: To configure battery discharge protection (see below):

JMP 3 Position	Description
(This position can also be without a	[Default] Enabled (Protect): Battery "deep discharge protection" is enabled, meaning if a continuous AC power outage occurs, the system automatically disconnects the backup battery in order to prevent a deep discharge that may damage the battery (protection range is between 7 VDC and 8.8 VDC). NOTE: In this position, the system will not start to operate from a battery power supply, unless there is power from the mains first.
Disabled (Non-protect): Battery "deep discharge protection" is disabled; the battery may be totally discharged during continuou failure, thus battery replacement may be required. NOTE: In this position, the system will start to operate from a bat power supply whether it is receiving power from the mains or not be a supply whether it is receiving power from the mains or not be a supply whether it is receiving power from the mains or not be a supply whether it is receiving power from the mains or not be a supply whether it is receiving power from the mains or not be a supply whether it is receiving power from the mains or not be a supply whether it is receiving power from the mains or not be a supply whether it is received.	

Describing Connectors & Ports on the Main Panel PCB

Connector/Port	Description	
BUS 1 BUS 2 BUS 3 BUS 4	Bus "quick connectors" - a dedicated 4-pin serial connector for each of the 4 independent bus lines. It may be used (depending on the device) instead of performing standard bus line wiring at the terminal block.	
BOX TMP	Box/enclosure tamper NOTE: If using this connector for the box tamper, do not also connect to the (alternative) box tamper terminals on the terminal block.	
GSM CARD	GSM module	
IP CARD	IP module	
VOICE	For connecting to the Voice Module (use supplied 3-pin serial cable)	
USB-B	USB port to connect to the Configuration Software computer/laptop (USB–B to USB–A cable required, not supplied)	
PLUG 6	For the RISCO-supplied and certified AC— DC adaptor. NOTE: Alternatively input DC can also be wired at the (–) and (+) terminals on the terminal block (next to PLUG 6).	
BATTERY	For connecting to the main panel backup battery (not-supplied)	



Installing Plug-In Communication and Audio Modules

See the installation instructions included with each module for installation details, and see *Main Panel Wiring Diagram*, page 25.

⚠ **CAUTION:** Before installing any communication or audio module, in order to prevent damage to system components, make sure the main panel is **NOT** powered up, and that the panel's backup battery is **DISCONNECTED**.

Installing a GSM Module

GSM modules provide voice and data communication over a cellular network. The G2 and G3 GSM modules provide generation 2 and 3 GSM communication. The procedure for installing the single-socket GSM/GPRS module is the same procedure as for the multi-socket GSM 2G / GSM 3G modules.

To install a GSM module:

- 1. Ensure the main panel is powered off.
- 2. Install the GSM module according to the installation instructions packaged with the module, as well as the *Main Panel Wiring Diagram*, page 25 for the module's connection location on the main panel PCB.
- 3. Ensure the antenna is attached onto its connector on the GSM module, and then slide the antenna into place on the box/enclosure housing according to the instructions packaged with the specific box/enclosure being used.
- 4. Insert the dedicated SIM card and, if required, enter its enabling PIN. You can disable the SIM PIN in advance by placing it in a cell phone and then disabling it, or you can disable it later during installer programming (where you can enter or disable the PIN) and also manually define the APN, if needed (see *Defining APN Automatically and Manually*, page 56).

IMPORTANT:

- Ensure that you remember the PIN for the SIM card. If you forget it and the SIM is locked, you may need to contact your cellular provider to unlock it.
- Do not install SIM card while power is applied to the ProSYS Plus.
- Do not touch SIM card connectors/circuitry. Doing so may release an electrical discharge that could damage the SIM card.
- Once the SIM card is installed, it is recommended to test the operation of the SIM by conducting a call and testing the GSM signal strength.



Installing an IP Module

IP modules provide data communication over TCP/IP. The installation procedure is the same for single-socket and multi-socket IP modules.

To install an IP Module:

- 1. Ensure the main panel is powered off.
- 2. Install the IP module according to the installation instructions packaged with the module, as well as the *Main Panel Wiring Diagram*, page 25 for the module's connection location on the main panel PCB.
- 3. Connect the incoming LAN cable to its jack on the IP module, and ensure network connectivity.

Installing the PSTN Modem Module

The PSTN modem module enables 2400 baud PSTN communication.

> To install the PSTN modem module:

- 1. Ensure the main panel is powered off.
- 2. Install according to the instructions packaged with the module.
- 3. Make sure the telephone and telephone line are connected (see *Power Supply, Ground, and Telephone Wiring, page 26*).

Installing an LRT Module

A Long-Range (Radio) Transmitter module (LRT) can be installed on a bus line.

> To install an LRT module:

- 1. Ensure the main panel is powered off.
- 2. Install the LRT module on a RISCO bus and configure it according to the manufacturer's installation instructions.

Installing the Voice Module

Installed inside the main panel box/enclosure and connected to the main panel PCB, the Voice module provides audible system status and enables any DTMF (touch-tone) phone to act as a keypad for operating the system remotely. The Voice Module requires a GSM (G2 or G3) module installed.

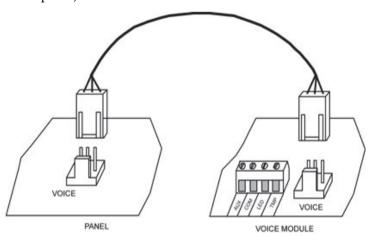
Upon a system event (such as an alarm activation), the Voice module calls the user and plays a pre-recorded event announcement. Using the telephone, the user first acknowledges receipt of notification, and then operates the system.

Optionally, the Voice module can be used for "listen-and-talk" communication between the user at the protected site, and the monitoring station. This requires the Listen-In & Speak Unit installed (see *Installing the Listen-In & Speak Unit, page 31*).



To install the Voice Module:

- 1. Ensure the main panel is powered off.
- 2. Install the Voice module inside the main panel box / enclosure. Install and configure it according to the installation instructions packaged with the module. Also see the *Main Panel Wiring Diagram, page 25* for the module's connection location on the main panel PCB.
- 3. Connect the Voice module to the main panel using the supplied cable (connect from the Voice connector on the Voice module to the Voice connector on the main panel):



Installing the Listen-In & Speak Unit

Wired directly onto the Voice module, the Listen-In & Speak unit is a remote, external audio accessory that provides 2-way "listen-in-and-talk" communication between users at the premises and the monitoring station – for times of emergency. Multiple Listen-In & Speak units can be used in the system.

To install the Listen-In & Speak unit:

- 1. Ensure the main panel is powered off.
- 2. Install the Listen-In & Speak unit according to its packaged installation instructions, and also the Voice module's packaged installation instructions. Install Listen-In & Speak unit(s) where best utilized at the premises.



Wiring other Devices at the Terminal Block

Connecting a Wired Keypad

A wired keypad should be installed first, as it is used to set defaults upon system initialization (language, time and date), to perform an Auto-Setting scan for allocating all bus-connected devices, and configure parameters. Wired keypads can be connected directly at the main panel terminal block, or onto a RISCO bus line. See *Step 3: Bus Line Installations, page 36.*

Connecting Auxiliary (12 V DC) Devices

Use the **Auxiliary Power AUX (+) and COM (—)** terminals to power, for example, PIRs, glass-break detectors (4-wire types), smoke detectors, audio switches, photoelectric systems, or any device that requires a 12 V DC power supply.

NOTES:

- Maximum current draw for each bus ("AUX RED" terminals) is 750 mA.
- Maximum combined current draw from the two AUX terminals plus UO1 and UO2 is 750 mA.
- Total current draw from the panel terminal blocks should not exceed 2000mA, in addition to above limitations.
- If, at the main panel terminal block, any Bus or AUX outputs are overloaded
 and are shut down, you must disconnect all loads from those Bus or AUX
 outputs for a period of at least 10 seconds before you reconnect any load to
 those outputs.
- To increase your power ability when employing multiple auxiliary devices, you can use an optional Power Supply expansion module(s).
- For 4-wire smoke detectors, see the packaged installation instructions.
- To prevent a possible drop in voltage due to current requirements and distances involved, make sure to use the appropriate wire gauge (refer to the table of gauge sizes for AUX devices). See *Appendix B: Wiring, page 219*.



Connecting the Bell / Loudspeaker

The Bell & LS (loudspeaker) terminals provide power to the internal bell (siren).

NOTE: A maximum of 750 mA may be drawn from this output.

To connect the internal bell (siren):

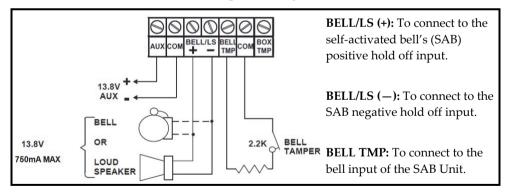
- 1. With main panel power removed, connect the internal bell with the correct polarity (for installation instructions see the packaged installation instructions).
- 2. At SW1 on the main panel PCB, be sure to position the BELL DIP switch correctly accordingly (regarding bypassing or not bypassing the bell tamper). See *Main Panel DIP Switch Settings*, page 27.

IMPORTANT: To avoid bell loop trouble, if no connections are made to an internal bell, on the terminal block install a provided 2.2K Ω resistor to the BELL/LS (+ and –) screw terminals, unless fitting an extension speaker with DIP switch 1 in the OFF position.

Connecting the Bell Tamper

To utilize the bell tamper:

• With main panel power removed, connect the bell tamper to the **BELL TMP** and COM terminals on the main panel using a 2.2K Ω resistor in serial.



> To not utilize the bell tamper:

• If the installation does not utilize the main panel's bell tamper, on the main panel PCB set DIP switch 5 to **ON** to bypass the tamper protection. See *Main Panel DIP Switch Settings*, page 27.

IMPORTANT: Even if you don't utilize the bell tamper, connect a provided 2.2K Ω resistor between the BELL TMP and COM terminals.



Connecting the Box Tamper (Wall Tamper)

The box tamper is pre-installed on the main panel housing (see box/enclosure instructions).

> To utilize the box tamper:

- Connect back tamper wires to the BOX TMP terminals on the terminal block, or alternatively connect via cable to the BOX TMP connection jack on the PCB.
 NOTE: Do not wire the box tamper to both the terminal block and the PCB connector simultaneously.
- 2. Set the box tamper DIP switch (DIP Switch 4) on main panel PCB to **OFF** (see *Main Panel DIP Switch Settings, page* 27).

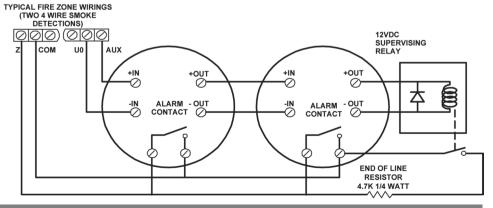
> To not utilize the box tamper:

• If not utilizing the main panel's box tamper, to bypass tamper protection set DIP switch 4 on panel PCB to **ON** (see *Main Panel DIP Switch Settings, page 27*).

Connecting 4-Wire Smoke Detectors

ProSYS Plus supports 4-wire smoke detectors. Refer to the detector's packaged installation instructions.

- To connect a 4-wire smoke detector or device that requires resetting after an alarm condition, connect the auxiliary power AUX and output terminals. Use a power supervision relay to supervise the 4-wire smoke detectors. Loss of power to the detector(s) de-energizes the relay, causing a break in the zone wiring and a "Fire Fault" message at the panel. Remember to define the output as Switched Auxiliary.
- In addition, when connecting a 4-wire smoke detector, observe the wiring guidelines mentioned in the previous sections, along with any local requirements applicable to smoke detectors, as per the following diagram:

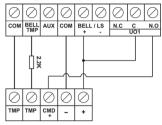




Wiring Utility Outputs

Utility outputs such as UO1 (Utility Output 1) are used to activate external self-powered devices (such as a siren):

Wiring Utility Output 1



Placing the JMP 2 (UO1) Jumper

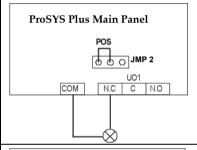


POS NEG

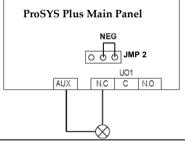
The JMP 2 jumper connector determines the UO1 connection behavior. UO1 is normally used for an external siren connection, as follows:

Positive (POS): When the JMP 2 jumper is placed on POS, the C terminal on UO1 receives 13.8V.

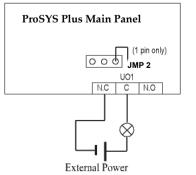
NOTE: In this case, the maximum combined current draw from the two AUX terminals plus UO1 and UO2 is 750mA



Negative (NEG): When the JMP 2 jumper is placed on NEG, the C terminal on UO1 receives COM.



[Default] If the JMP 2 jumper is placed only on 1 pin (or if the jumper is not placed on any pin) the UO1 acts as a dry contact.





Step 3: Bus Line Installations

ProSYS Plus supports up to 4 separate, independent RISCO bus lines. If one bus line ever experiences a problem that interrupts data flow (such as being cut or shorted), the other RISCO bus lines will continue operating normally.

Bus Line Wiring

On the main panel PCB, the 4 wires of each RISCO bus line (red, black, yellow, green) connect to the respective screw terminals on the terminal block as follows:

Bus screw terminal	Purpose
AUX RED	+12 V DC power
COM BLK	0V common
BUS YEL	Data (yellow wire)
BUS GRN	Data (green wire)

Describing Bus Devices

All peripheral devices (bus detectors, keypads, sirens) as well as expansion modules (8-Zone Expanders, 16-Zone Expanders, Single-Zone Expanders, Wireless Expanders, Power Supply Expanders, Bus Zone Expanders, Output Expanders) that **connect and communicate to the main panel via bus line** are all referred to as bus-connected devices, or "bus devices." Bus devices fall under **categories** pertaining to zones, outputs, power supplies, wired keypads and sirens.

NOTE: Even though zone expanders (single-zone, 8-zone, and 16-zone) connect relay detectors and not bus detectors, they are bus devices.

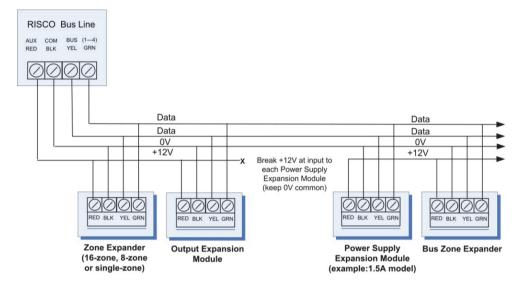
Describing Bus Detectors and their Connection Options

Connect multiple bus detectors to RISCO bus lines via Bus Zone Expanders (BZEs), which serve to expand the number of bus detectors and also enhance bus security and performance. A smaller number of bus detectors can be connected individually without connecting to Bus Zone Expanders – they are wired to a bus at the main panel PCB. For installation, refer to the instructions supplied with the bus detector.



Typical Wired Expansion Modules Installed on RISCO Bus Lines

The following shows different types of wired expansion modules typically installed on a RISCO bus line (all are bus devices). Note that wireless expanders can also be wired to a RISCO bus line.



NOTES:

- The parallel wiring system supports parallel connections from any point along the wiring.
- For maximum system stability, it is best not to exceed a wire run of 300 meters (1000 feet) for each leg of a bus line. For a distance of more than 300 meters, contact RISCO Customer Support.
- In case of bus communication problems, connect two of the supplied 2.2K Ω resistors, with one at each end of the bus data terminals (connecting the green to the yellow terminals).
- For long cable runs, please use the correct cable / gauge sizes as stated in the *Appendix B: Wiring, page 219*.
- If connecting remote power supply units, do not connect the red wire (+12 V) between the power supply unit and the ProSYS Plus main panel. Break the +12V at the input to each power supply expansion module (keep 0V common).
- If additional current is required on a bus line, install power supply expansion module(s).



Describing Installer-Set ID Numbers for Bus Devices

For each bus device category (see the table below), each of its respective bus devices gets a sequentially-assigned, installer-set "physical" ID number that the installer physically sets with the device's DIP switches before powering up the device.

NOTE: To be unique, bus devices in the same category that are on the same bus line must have sequentially different physical ID numbers, whereas different devices (or the same bus device types on different bus lines) can have the same physical ID number.

Categories	Respective Bus Devices			
	Bus Zone Expanders			
	Bus zones (bus detectors)			
ZONES	Zone expansion modules: single-zone expander, 8-zone expander, 16-zone expander			
	Wireless expander			
OUTPUTS	Output expansion modules: 4 outputs/3A, 8 outputs/100 mA			
POWER SUPPLY UNITS	Power supply expansion modules: 1.5A, 3A			
WIRED KEYPADS	Elegant, LCD, etc.			
BUS SOUNDERS	ProSound, Lumin8			
KEY READERS Proximity Key Reader				



ID Number Formats

<u>Keypads, sirens, as well as expansion modules</u> (bus zone expanders, zone expanders, wireless expansion modules, utility output modules, power-supply expansion modules) that are connected via a RISCO bus line display on the keypad as per this example: **02(1:01) T=NZE08**

EXPLANATION:

- 02 is the index number of keypad, siren, or voice/expansion module
- 1 is the RISCO bus line number that it is on
- 01 is the sequential, installer-set physical ID number
- T (type) is NZE08 (8-zone expander)

<u>System detectors and accessories</u> (other than keypads, sirens and expansion modules) have their zones display as per these examples:

- Bus detector connected via a Bus Zone Expander: 4:B08:05
- **Relay detector** wired to a zone expander: **4:E08:05**, or wired to a zone (1-8) on the terminal block: **4:E00:05**
- Input zone (relay detector that is wired directly onto a compatible type of bus device (such as the iWISE Bus and Elegant keypad), which thereby shares its bus line connection): 4:I08:05
- Wireless detector connected to a wireless expansion module: 4:W08:05

EXPLANATION (for all 4 examples above):

- 4 is the RISCO bus line number
- The next value (B08, W08, E08, or I08) is for the ID of the expansion module or input zone that the detector is connected to (B = bus zone expander, W = wireless zone expander, I = input zone, E = wired zone expander)
- 05 is the sequential, installer-set physical ID number

NOTES: [For main panel terminal block wiring]:

- For a bus zone expander wired to a bus line at the terminal block, its ID will show as B00.
- For a relay detector wired to a zone (1-8) at the terminal block, its ID will show as **E00**.
- For a UO module wired to a UO terminal at the terminal block, its ID will show as 0x (whereas x = z zone number 1-6).



Assigning ID Numbers (Setting DIP Switches) for Bus Devices

When installing each bus device, you must set its DIP switches to match its sequentially-assigned physical ID number **before the device is powered up**.

NOTE: If after power-up a device's DIP switch(s) are changed, it will be necessary to shut down the device's power and then power it up again.

- To set a bus device's ID with its DIP switches:
- For each bus device, set its physical ID number by placing its DIP switches to ON or OFF according to the table. Bus devices have between 3 and 5 DIP switches (check the device's packaged instructions for details, as some devices may have DIP switch(s) that are not to be used for setting the device ID).

NOTE: Categories of bus devices with 3 DIP switches can be comprised of up to 8 IDs, those with 4 DIP switches up to 16 IDs, and those with 5 DIP switches up to 32 IDs. See the following examples and the table:

EXAMPLE: For a bus device with 3 DIP switches, to assign ID 02, DIP switch 1 needs to be set to ON, and DIP switches 2 and 3 need to be set to OFF.

EXAMPLE: For a bus device with 4 DIP switches, to assign ID 04, DIP switches 1 and 2 need to be set to ON, and switches 3 and 4 need to be OFF.

EXAMPLE: For a bus device with 5 DIP switches, to assign ID 07, DIP switch 1 needs to be set to OFF, DIP switches 2 and 3 need to be ON, and DIP switches 4 and 5 need to be OFF.

ı	- 6-					
Bus	DIP switches					
device	1	2 3		4	5	
ID						
01	OFF	OFF	OFF	OFF	OFF	
02	ON	OFF	OFF	OFF	OFF	
03	OFF	ON	OFF	OFF	OFF	
04	ON	ON	OFF	OFF	OFF	
05	OFF	OFF	ON	OFF	OFF	
06	ON	OFF	ON	OFF	OFF	
07	OFF	ON	ON	OFF	OFF	
08	ON	ON	ON	OFF	OFF	
09	OFF	OFF	OFF	ON	OFF	
10	ON	OFF	OFF	ON	OFF	
11	OFF	ON	OFF	ON	OFF	
12	ON	ON	OFF	ON	OFF	
13	OFF	OFF	ON	ON	OFF	
14	ON	OFF	ON	ON	OFF	
15	OFF	ON	ON	ON	OFF	
16	ON	ON	ON	ON	OFF	
17	OFF	OFF	OFF	OFF	ON	
18	ON	OFF	OFF	OFF	ON	
19	OFF	ON	OFF	OFF	ON	
20	ON	ON	OFF	OFF	ON	
21	OFF	OFF	ON	OFF	ON	
22	ON	OFF	ON	OFF	ON	
23	OFF	ON	ON	OFF	ON	
24	ON	ON	ON	OFF	ON	
25	OFF	OFF	OFF	ON	ON	
26	ON	OFF	OFF	ON	ON	
27	OFF	ON	OFF	ON	ON	
28	ON	ON	OFF	ON	ON	
29	OFF	OFF	ON	ON	ON	
30	ON	OFF	ON	ON	ON	
31	OFF	ON	ON	ON	ON	
32	ON	ON	ON	ON	ON	



Installing Bus Devices

When installing bus devices, in addition to the information presented in this manual, always refer to the device's packaged installation instructions.

Installing Wired Keypads

Connected either to a RISCO bus line, or to a bus at the terminal block on the main panel PCB, a wired keypad is the first system component to be installed, as it is used to set the initialization defaults upon system power-up (language, time and date) and view zone licensing / total zone information. It is then used to perform an Auto-Setting scan for purposes of identifying, then allocating and configuring all installed communication modules and bus devices.

> To install a wired keypad

- 1. Ensure the main panel is powered off
- 2. Set DIP switch 2 on the main panel PCB to **ON**. This enables you to set the defaults (language, time & date) upon system initialization. See *Main Panel DIP Switch Settings*, page 27.
- 3. Set the keypad's DIP switches (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*), and in accordance with the keypad's packaged instructions.
- 4. Set the keypad's back tamper switch per keypad instructions.
- 5. Wire the keypad to a RISCO bus line, or to a bus on at the main panel terminal block (see *Main Panel Wiring Diagram, page 25*).
- 6. Refer to the keypad instructions for additional installation information.

Installing Bus Detectors

Connecting Individual Bus Detectors to a Bus at the Main Panel

- > To connect bus detectors individually on a bus at the main panel PCB:
- 1. Remove system power.
- 2. Connect each bus detector to the bus line per its packaged instructions.
- 3. Sequentially assign each bus detector's ID (01—32) and set accordingly with its 5 DIP switches. See *Assigning ID Numbers (Setting DIP Switches) for Bus Devices, page 36.*

NOTE: For WatchOUT, LuNAR, WatchIN, BWare and Seismic set the switch that defines the detector's operational mode to "bus mode."



Connect the 4 bus wires to their respective bus screw terminals on the main panel PCB (terminal block): AUX (RED), COM (BLK), BUS (YEL), BUS (GRN).

NOTE: For maximum operation stability, it is best that the bus line wiring from any bus detector to the main panel should not exceed a total 300 meters (1000 feet). For a distance of more than 300 meters, contact RISCO Customer Support.

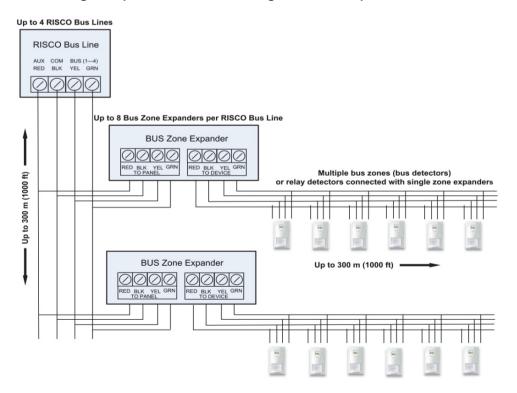
NOTE: For testing the bus, see *Performing a Bus Test, page 54*.

Installing Bus Zone Expanders

The Bus Zone Expander (BZE) serves to expand the number of bus devices used in the system. It also acts as a bus isolator for increasing bus security, and as a bus detector concentrator for improving bus performance.

• To install a Bus Zone Expander, refer to the packaged installation instructions.

Connecting Multiple Bus Detectors using Bus Zone Expanders





- To connect multiple bus detectors to bus lines using Bus Zone Expander(s):
- 1. Remove system power.
- 2. At SW1 on the BZE (Bus Zone Expander), use DIP switches 1—3 to sequentially set the BZE's physical ID number. Note that DIP switch 4 is not used.
- 3. At SW2 on the BZE set DIP switch 3 to **ON**.
- 4. At SW2 on the BZE, set DIP switch 4 to **OFF** to utilize the tamper switch, or set it to **ON** to disable the tamper.
- 5. Wire the bus line to the BZE terminals marked **TO PANEL**.
- 6. Set each bus detector's physical ID number sequentially, using each detector's DIP switches.
 - **NOTE:** Do not assign the same physical ID number to more than one detector on the same BZE.
- 7. Wire each bus detector's terminals to the BZE terminals marked **TO DEVICE**. **NOTE:** For maximum operation stability, it is recommended not to exceed 300 meters (1000 feet) of wiring from any BZE to the main panel, and not to exceed 300 meters (1000 feet) of wiring from any BZE to the farthest detector it supports. For a distance greater than 300 meters (1000 feet) contact RISCO Customer Support.

NOTE: For testing the bus, see *Performing a Bus Test, page 54*.

Installing Power Supply Expansion Modules

The ProSYS Plus supports the addition of multiple supervised / switching power supply expansion modules (models of 1.5A or 3A), that each operate from AC power, connect to a bus, and serve to expand the total current capacity when needed. See *Appendix A: Technical Specification, page 217* for specific information on the available models.

Both the 1.5A and 3A power supply expansion modules have advanced remote diagnostics (including remote upload/download or keypad reading of voltage output and current under load), and support a standby battery and a 1.7 A siren. They are self-supervised for loss of mains power, battery power, failure of its auxiliary output power, and loss of sounder loop integrity (sounder device).

The 3A power supply expansion module also supports two utility outputs.

 To install power supply expansion module(s), refer to their packaged installation instructions



Installing Utility Output Expansion Modules

The ProSYS Plus supports the following programmable UO (Utility Output) expansion modules, whose outputs may be activated as a result of numerous events related to system, partition, zone, or user:

4 x 3A Relay Output Expander

8 x 100 mA Open-Collector Output Expander

 To install UO expansion module(s), refer to their packaged installation instructions

Installing Wireless Expanders

A Wireless Expander module can be installed in the box/enclosure housing, as well as on RISCO bus lines.

NOTE: When adding a wireless expander, define the wireless expander's "Bypass Box Tamper" as **YES** if the wireless expander is mounted inside the ProSYS Plus box / enclosure housing and not in its own.

 To install Wireless Expander modules, refer to the packaged installation instructions.

Installing Bus Sounders (Sirens)

ProSYS Plus is compatible for bus sounders, such as the **ProSound** and **Lumin8**.

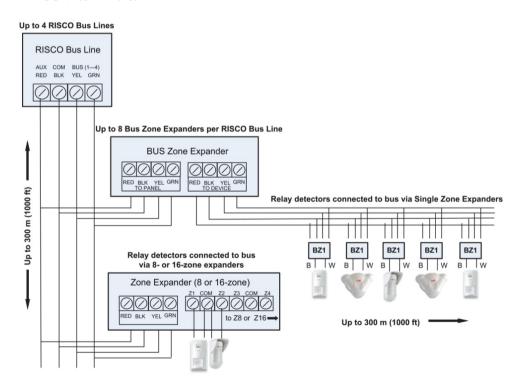
• To install bus sounders, refer to their packaged installation instructions



Step 4: Connecting Relay Detectors

Wired non-bus detectors ("relay detectors") can be connected to the system the following ways:

- Connect relay detector(s) directly at the zone input terminals (Z1—Z8) on the terminal block of the main panel PCB. See *Main Panel Wiring Diagram*, page 25.
- Connect multiple relay detectors onto 8-Zone Expanders and 16-Zone Expanders (see the illustration below)
- Connect relay detector(s) onto RISCO bus lines, each using a dedicated Single Zone Expander (see the illustration below)
- Connect a single relay detector directly onto bus devices which support an
 input zone. For the Elegant keypad, connect a relay detector to ZONE IN and
 ZONE COM terminals, and for the iWISE Bus detector connect to Z1 and
 COM terminals.





Installing Zone Expanders

16-Zone Expanders, 8-Zone Expanders, and Single-Zone-Expanders all enable you to expand the number of wired zones --for example, non-bus ("relay") detectors used in the system.

While a Single Zone Expander connects only one single relay detector to a bus line (each individual relay detector requires a dedicated Single Zone Expander), each 16-Zone Expander supports up to 16 relay detectors (and likewise each 8-Zone Expander supports up to 8 relay detectors). See *Step 4: Connecting Relay Detectors*, page 45.

NOTE: When connecting Single Zone Expanders directly to a Bus Zone Expander, connect the Single Zone Expander's bus wires (red, green, yellow, black) to the respective terminals on the Bus Zone Expander that are marked **TO DEVICE**

ProSYS Plus provides selectable, variable EOL (end-of-line) zone termination resistance options, compatible for RISCO relay detectors, as well as those of other manufacturers (for example, if performing a retrofit installation). Termination resistance is defined for each single-zone, 8-zone and 16-zone expander used in the system (as well as for each relay detector they support).

• To install zone expanders, refer to their packaged installation instructions.

Defining Zone Termination Resistance

A zone's termination (end-of-line) resistance can be defined for relay detectors (not wireless or bus detectors), and it involves first physically wiring resistors (if not already in place) at installation, and then afterwards selecting the zone's termination resistance option at the keypad during installer programming. See *Defining Zone Termination Resistance using the "Resistance" Option, page 67*.

NOTE: For relay detectors wired to zone expanders, during installer programming you separately define their individual termination resistance values, and also define it for the zone expanders.



DETECTOR -

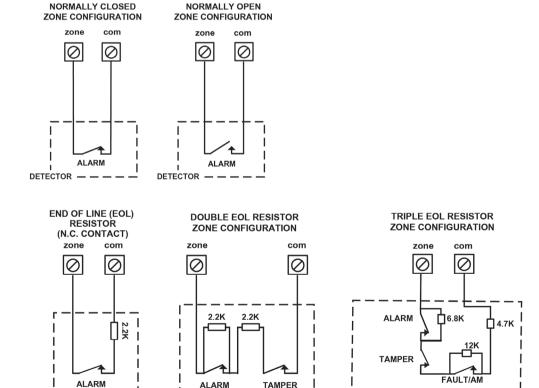
Wiring Resistors for Zone Termination Resistance

> To wire termination resistors:

- For RISCO EOL (end-of-line) and DEOL (double-end-of-line) detectors without built-in termination resistance, install a 2.2K Ω end-of-line resistor at the detector-side of each hard-wired zone
- For a detector with a tamper switch, you can use DEOL termination to save additional main panel connections
- For RISCO TEOL (triple-end-of-line) detectors without built-in EOL resistance, install 4.7K Ω , 6.8K Ω and 12K Ω resistors at the detector-side of each hardwired zone. TEOL is supported to identify detector masking and trouble.

Zone Termination Configuration Options

DETECTOR-



DETECTOR - - -



Step 5: Connecting the Backup Battery and Mounting the Main Panel

Install the backup battery and then mount the main panel on the wall.

Connecting the Backup Battery

The main panel's backup battery is not supplied with the system. You will need to install a **rechargeable battery (12 V, 18 Ah),** which is automatically utilized as a backup in case of power failure.

WARNINGS:

- To prevent damage, do not connect the backup battery until completion of all
 installation tasks, and until the system is ready for initial power-up.
- Install battery with the correct polarity.
- There is a risk of explosion if a battery is replaced with an incorrect type.
- Dispose of used batteries according to applicable law and regulation.
- The battery will take at least 24 hours before it can be fully used for backup.
- Replace backup battery about every 3—5 years. No maintenance is needed.

To connect the backup battery:

- 1. First ensure DIP switches and jumpers are set correctly in order to program system parameters (see *Setting Main Panel DIP Switches and Jumpers, page 27*).
 - a. At SW1 on the main panel PCB, set DIP switch 2 to ON. This allows language selection at first-time system power-up.
 - b. To bypass unused box and bell tampers (prevents tamper alarms), at SW1 set box tamper and bell tamper DIP switches (4 and 5 respectively) to ON.
 - c. You can configure battery discharge protection with the Non Protect jumper (see *Main Panel Jumper Setting*, page 28).
- 2. Now connect the leads of the battery cable to the respective (+) and (—) terminals on the battery and ensure correct polarity.
- 3. Insert the backup battery into its place in the main panel box/enclosure housing (see the instructions packaged with the box/enclosure).
- 4. Connect the battery cable onto the Battery connector on the main panel PCB.

Mounting the Main Panel

> To mount the main panel:

• Close up the box/enclosure and mount it to the wall (see the box/enclosure installation instructions), and see *Step 1: Creating a Plan for Mounting the System, page 23.* You are now ready for initial system power-up and initialization.



System Initialization, Device Allocations & General System Configuration

For installer programming using the Configuration Software, see its documentation.

Step 1: Describing Keypad Controls and Installer Menus

Describing Dynamic Keypad Menus

The ProSYS Plus installer menus are dynamic, in that they display menu items according to the devices connected in the system.

Table of Keypad Buttons

The following describes the typical Elegant keypad buttons used for programming: **NOTE:** On other keypad the buttons may differ. See their packaged instructions.

Key	Description
1-0	For entering codes, using quick keys (to quickly access a menu option, labels, and for entering other numeric values.
	To go back a step in the menu, to exit a menu or return to the beginning of a menu.
i	Long-press to get system status
✓	Confirm (after entering) / OK / Save
$\nabla \triangle \Diamond \rangle$	For scrolling through menus and menu options, and for toggling, such as between "ON" and "OFF" options.
	To toggle between options(such as Yes and No)
A, B, C, D	To select the corresponding group $(A-D)$

Designating Labels

The following table describes all the available characters at the Elegant keypad that can be used for labels (names/descriptions).

Key	Character Options	Key	Character Options
1	1 . , ' ? ! \ " - < > @ / : _ + * #	7	7 PQ RS
2	2 A B C	8	8 T U V
3	3 D E F	9	9 W X Y Z
4	4 G H I	0	0 (also use for blank space)
5	5 J K L	A	To toggle between lower case and capital letter
6	6 M N O		To scroll through all possible characters, to toggle through options (Yes/No)



Entering the Installer Programming Menu at Initial System Setup

After initial system power-up, language/time/date setting, viewing enabled zones and defining system partitions, you'll be in the installer Programming menu (at the Auto Settings bus scan).

IMPORTANT: After you finish initial system setup programming tasks from the installer Programming menu, you must exit the installer Programming menu (see *Exiting Installer Programming Menu after Initial System Programming, page 208).*

Subsequently Accessing Installer Menus

After exiting the installer Programming menu (after you finished programming in it the **first time**), if you subsequently ever want to access this menu again (or to other installer menus, such as the installer Maintenance menu for testing), DIP switch 2 must be set to **OFF**, otherwise it will reset the installer, sub-installer and Grand Master codes to factory defaults. For subsequent programming from the installer Programming menu, another option is from the Configuration Software.

Step 2: Powering-Up and Initializing the System

When a new system is powered-up the first time, here are the initialization steps:

- **1:** Initial power-up, language selection. The system automatically connects to the Cloud.
- **2:** View enabled zones, define the maximum number of system partitions, and set the time & date.

System Power-Up and Language Selection

NOTE: During regular system operation (after initial system power-up & settings) the language can be subsequently changed by pressing Exit() + 9 simultaneously.

> To initially power-up and select a language:

- Power-up the main panel; the keypad panel takes a few seconds to initialize (there may be an automatic 3-minute upgrade that runs automatically, during which the upgrade and power icons may display on the keypad – make sure you do not disconnect).
- 2. Press Exit when prompted, then scroll to select a language & press OK (✓). NOTE: If powering up subsequently (after initial power-up and system initialization), language, time & date settings will not automatically appear. Instead you will be prompted to enter the installer code to access the Installer menus for programming.



Viewing Zones, Defining Partitions, and Setting the Time & Date

You can now **view enabled zones** (the default of 64 zones, or the total number of enabled zones including any additional zone licenses purchased), **select the maximum number of partitions**, and **set the time & date**.

NOTE: You can opt to define the maximum partitions at a later stage – from the keypad (during installer programming), or from the Configuration Software. **NOTE:** To view/ update zone licenses and set partitions after system initialization, see *Viewing & Updating Zones & Defining Partitions after Initialization, page 52.*

Viewing Zones, Defining Partitions and Setting Time/Date at Initialization

> To view zone licenses, define partitions & set time/date at system initialization:

NOTE: If the Authorize Installer parameter is defined as YES, you need to enter the Grand Master code (default is **1234**) for authorization to enter Programming mode.

- 1. When prompted, enter the installer code (default is **1111**) and press **OK** (\checkmark). Enter the code within 10 seconds or wait a few seconds for the keypad to restart;
 - If the panel configuration is Cloud-compatible (IP/GSM module/s are installed), then CLOUD CONNECTING displays as the panel tries to connect to the Cloud. If there is trouble connecting, CONNECTION TROUBLE. RETRY? will display in this case, check parameters and perform diagnostics (see *Appendix J: Troubleshooting*, page 230) and then select **Y** (yes) to try again to reconnect or press **N** (no).

-OR-

- If the panel configuration is not Cloud-compatible (IP/GSM module/s are not installed), then 064 ZONES ENABLED displays (the default number of zones).
- Press OK; upon successful Cloud connection, if new zone licenses (above the 64 supplied) have been purchased, they will display. If no new zone licenses were purchased, the default 064 Zones Enabled displays.
- 3. Press **OK**; PARTITION QUAN 08 (08—32) displays.
- 4. Enter the maximum number of partitions you want in the system the default is 08 (meaning up to 8); but up to 32 can be selected. If you want more than 8 partitions, enter the number. Now press **OK**; ENTER TIME/DATE displays.
- 5. Enter the time and date, and then press **OK**; BUS DEVICE: 1) AUTOMATIC displays, indicating you are now in the installer Programming menu, and ready to perform an Auto Settings scan (see *Step 3: Allocating and Configuring Installed Components*, page 53).



Keypad Timeout

When in installer Programming, if no entry is made to a keypad after the predefined time period (see installer Programming menu), it will beep and display TIME OUT, HIT ANY KEY. Press any key to stop the beeping, then re-enter your installer code to get back in the installer Programming menu.

Viewing & Updating Zones & Defining Partitions after Initialization

After system initialization, you can view the total number of enabled zones, define partitions, and also manually update the system with any additional zone licenses purchased which are activated using HandyApp -- this can be useful, for example, if during system initialization the automatic connection to the Cloud fails.

> To view enabled zones after system initialization:

- 1. Enter your installer code (default is **1111**).
- 2. From the installer Programming menu, go to: $1 \rightarrow 5 \rightarrow 7$ (System \rightarrow Settings \rightarrow Licenses), and then press OK (\checkmark).
- 3. Scroll to **1) View Licenses** to view the total number of enabled zones (the default of 64 zones plus any additional zone licenses purchased which are activated using HandyApp), and then press **OK**.

NOTE: The panel must be connected to the Cloud in order to display the total number of enabled zones, otherwise only the default number (64 provided zones) will display.

> To update the system with new zone licenses after system initialization:

• To manually update the system with the new zone license information (for any new zone licenses that were purchased which are activated using HandyApp), scroll to **2**) **D/L Licenses** and then configure the Cloud-connectivity parameters.

> To define the partition quantity after system initialization:

- 1. Go to: $1 \rightarrow 5 \rightarrow 8$ (System \rightarrow Settings \rightarrow Partition Qty), and then press OK (\checkmark); MAXIMUM PARTITIONS? 08 (08–32) displays.
- 2. Enter the maximum number of partitions to enable in the system the default is 08 (meaning up to 8), but up to 32 can be selected. If you want more than 8 partitions, enter the number.
- 3. Press OK.



Step 3: Allocating and Configuring Installed Components

Perform an Auto-Setting scan to locate, allocate, and configure all installed communication modules & bus devices.

NOTE: The automatic setting/un-setting function is not in compliance with EN50131-3.

Auto-Setting Scan for Communication Modules & Bus Devices

Performing an Auto-Setting scan finds all installed communication modules and bus devices connected in the system. As you view the results, you allocate ("enable") each, and then you can configure their settings now, or later during installer programming. For configuration details see *Manually Allocating & Configuring Communication Modules on page 55*, and see *Manually Allocating & Configuring other Modules and Bus Devices on page 57*.

> To perform an Auto-Setting system scan:

- Upon accessing the installer Programming mode after system initialization, when BUS DEVICE: 1)AUTOMATIC displays (Auto Settings feature), press OK (✓); BUS SCANNING displays while scanning, until the results display first are the communication modules that were found, followed by the bus devices.
- 2. Press **OK** to enable the first communication module displayed, and keep pressing **OK** to progress through its parameter configuration screens (which you can configure now or later during installer programming).
- 3. Press **OK** again to advance to the next communication module (if applicable) followed by all other bus devices found, and again enable/configure for each.
- 4. Make sure all the communication modules/bus devices found in the scan match all the communication modules/bus devices physically connected in the system. When **BUS Device: 1)Automatic** displays again and the panel beeps, it indicates you have finished the Auto-Setting scan.
- 5. Now you can perform a Bus Test to ensure good communication between the allocated bus devices and the main panel (see *Performing a Bus Test, page 54*).

NOTE: If you subsequently add more bus-connected devices, you can either allocate and configure them manually, or repeat the Auto-Setting system scan at:

Programming menu → 7) Install → 1)BUS Device → BUS Device: 1)Automatic



Describing Auto-Setting Results

At the keypad, the results of an Auto-Setting scan first show the connected communication modules. The next results displayed are for connected keypads, expansion/voice modules and bus detectors. Results display as per this example: (3:02:01) T=LCD

EXPLANATION:

NOTE: Dashes ("-") appear instead of digits when a parameter is not relevant, for example, for communication modules as they are on-board (on the PCB), and not on a bus line

- 3 is the bus line it is connected to
- 02 is the expander ID
- **01** is its sequential, installer-set physical ID number for bus devices. Note that communication modules will always appear as **01**.
- T is the type, which, in this example is an LCD keypad

Performing a Bus Test

A Bus Test checks each installed bus device and communication module to ensure adequate connectivity quality.

A result of 97% or less than may mean that there are bus connection problems.

> To perform a Bus Test:

- From the installer Programming menu, go to: 7 → 1 → 3 → 1 (Install → Bus Device → Testing → Bus Test); BUS TEST displays for a few seconds until the "BUS COM QUALITY" results display.
- Scroll to view the results for each bus device/module on the tested bus. If a
 result is not adequate, check physical connections and DIP switch positions, and
 then repeat the test. Results display as per this example: GSM :001=100%

EXPLANATION:

- **GSM** is the bus device/communication module description
- 001 is the bus device/communication module index number
- 100% is the result



Manually Allocating & Configuring Communication Modules

If you didn't yet run an Auto-Setting scan to allocate ("enable") each installed communication module, you can do so manually from the installer Programming menu, as well as configure its relevant parameters.

IMPORTANT: If an allocated communication module is no longer to be utilized, you must disable it (cancel its prior allocation) via this manual process. After cancelling, if needed, you can then re-write over it in order to newly allocate another communication module.

NOTE: To set additional parameters, see *Installer Programming*, page 77.

NOTE: After manually programming communication modules, you can perform a bus test (see *Performing a Bus Test, page 54*).

GSM Modules

- 1. From the **installer Programming menu** select $7 \rightarrow 1 \rightarrow 2$, scroll to 10) GSM, and then press OK (\checkmark).
- 2. Toggle to the type of GSM module installed (or select **NONE** to cancel its allocation), and then press **OK**.

Entering or Deleting a SIM Card PIN

If your SIM card required a PIN (personal ID number) you will need to enter it. If not, you will need to disable it.

- > To enter or delete a SIM card PIN:
- 1. From the installer Programming menu select $5 \rightarrow 1 \rightarrow 2 \rightarrow 5 \rightarrow 1$, enter the PIN, and then press OK (\checkmark).
 - -OR-
- 2. If a PIN is not needed, you can choose to disable it by inserting the SIM card in a cell phone and disabling the code.
- 3. You can manually define APN definitions if you don't have them configured automatically (default), see *Defining APN Automatically and Manually, page 56*. **NOTE:** It is recommended to test the operation of a SIM card by conducting a call and testing the GSM signal strength. See *Testing the System, page 215*.



Defining APN Automatically and Manually

After the SIM card is installed and upon establishing GSM/GPRS communication, the system's auto-APN feature will automatically configure the APN definitions. However, there may be cases where you will need to manually define the APN by entering the APN (Access Point Name) code supplied from the cellular provider, user name, and password.

NOTE: If any of the APN definition fields are populated manually, the auto-APN feature will not operate.

> To manually set the APN definitions:

- From the installer Programming menu, select: 5 → 1 → 2 → 2 → 1
 (Communication → Method → GSM → GPRS → APN code), and then press OK (✓).
- 2. Enter the **APN code**, and then press **OK**.
- 3. Scroll to 2) APN User Name, press OK, enter the user name, then press OK.
- 4. Scroll to 3) APN Password, press OK, enter the password, and then press OK.

IP Modules

- 1. From the **installer Programming menu** select $7 \rightarrow 1 \rightarrow 2$, scroll to **11**) **IP**, and then press **OK** (\checkmark).
- 2. Toggle to the type of IP module installed (or select **NONE** to cancel its allocation), and then press **OK**.

Setting Dynamic IP / Static IP

To set IP communication to Dynamic IP or Static IP, go to: $5 \rightarrow 1 \rightarrow 3 \rightarrow 1 \rightarrow 1$, scroll to either 1) Dynamic IP or 2) Static IP, and then press OK (\checkmark).

PSTN Modem Module

- 1. From the installer Programming menu select $7 \rightarrow 1 \rightarrow 2$, scroll to 12) Modem, and then press OK (\checkmark).
- 2. Toggle to Modm (or select NONE to cancel its selection), and then press OK.

Long-Range Radio Transmitter Module

See the LRT instructions.

- 1. From the installer Programming menu select $7 \rightarrow 1 \rightarrow 2$, scroll to 14) LRT, and then press OK (\checkmark).
- 2. Toggle to the type of LRT module installed (or select **NONE** to cancel its allocation), and then press **OK**.



Manually Allocating and Configuring STU Adapter

For the UK only.

Manually Allocating & Configuring other Modules and Bus Devices

If you didn't yet run an Auto-Setting scan to allocate ("enable") all the installed non-communication modules (for example, expansion modules) or other bus devices – or if you are adding new ones and don't want to perform an Auto-Setting scan of the entire system, instead you can allocate them manually from the installer's Programming menu. Also, if you didn't configure the parameters during an Auto-Setting scan, you can do so now.

IMPORTANT: If no longer utilizing a previously allocated module/bus device, you'll need to manually cancel its allocation. After cancelling, if needed, you can then re-write over it (to newly allocate) another module/bus device.

NOTE: To set additional parameters, see *Installer Programming*, page 77.

NOTE: After manually programming other modules and bus devices, you can perform a Bus Test to ensure good communication between the bus devices and the main panel (see *Performing a Bus Test, page 54*).

Wired Keypads

- 1. From the installer Programming menu, select $7 \rightarrow 1 \rightarrow 2$, then scroll to 01)Keypad and press OK (\checkmark).
- 2. Scroll to, and then edit the keypad's physical ID number to match its DIP switch settings (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*).
- 3. Toggle to the correct keypad type (or select **NONE** to cancel its allocation), and then press **OK**; Assign to Partition displays.
- 4. Scroll to manually edit (type in) the partition number or toggle to the correct partition number, and then press OK; the Mask screen displays where you enable operability of specific partition(s) with this keypad. By default, for keypad 01 all partitions are enabled.
- 5. While scrolling through each block of partitions, designate the partition(s) to allow operation via the keypad. Enter a partition number to select it (it will display), or enter the number again to clear it (it will not display). Then press **OK**; Controls / 1)Emergency displays.



- 6. Scroll to Control parameters and press to enable/disable (Y/N) as needed:
 - 1)Emergency: to operate the emergency quick keys at the keypad.
 - **2)Multi View**: to view from this keypad the status of all masked partitions (select **Y**) or only the partitions (select **N**).
 - 3)Exit Beeps: (for a 2-way wireless Slim keypad with bypass) sounds beeps during the exit time in Stay arming.
 - 4)Supervision: to enable or disable (Y/N) supervision for a wireless keypad.
- 7. Press **OK** to go to the next keypad, and repeat this procedure from step 2.

Zone Expanders

- From the installer Programming menu, select 7→ 1→ 2, scroll to 02) Zone Expand, and then press OK (✓).
- 2. Scroll to, and then edit the zone expander's physical ID number to match its DIP switch settings (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*).
- 3. Toggle to the type (**NZE08** for an 8-zone expander, or **NZE16** for a 16-zone expander), or select **NONE** to cancel its allocation, and then press **OK**.
- 4. For the -zone expander, select its zone termination resistance by scrolling to the correct resistor values (in ohms).
 - **NOTE:** You define the termination resistance compatibility for the zone expander itself, according to the "highest" termination level of any relay detector you intend to connect to it. For example, if you have EOL, DEOL and TEOL detectors connected to the zone expander (or if you have only EOL and DEOL detectors, but you want to leave open the possibility of adding a TEOL detector to the zone expander in the future), you will need to set the zone expander's termination resistance values to TEOL the "highest" level.
- 5. Press **OK** to advance to the next zone expander, and then repeat from step 2 for all additional zone expanders.

Utility Output Modules

- From the installer Programming menu, select 7→1→ 2, scroll to 03) Util. Output, and then press OK (✓).
- 2. Scroll to, and then edit the module's physical ID number to match its DIP switch settings (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*).
- 3. Toggle to the UO type (or select **NONE** to cancel its allocation), then press **OK**.

11/2017 Page 58 5IN2413 B



Power Supply Modules

- 1. From the installer Programming menu, select $7 \rightarrow 1 \rightarrow 2$, scroll to **04)Power Supply**, and then press **OK** (\checkmark).
- 2. Scroll to, and then edit the power supply module's physical ID number to match its DIP switch settings (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*).
- Toggle to the PS type (or select NONE to cancel its allocation), and then press OK.
- 4. Select the partition number(s) for the power supply module. While scrolling through each block of partitions, designate the partition(s) to allow operation via the keypad. Enter a partition number to select it (it will display), or enter the number again to clear it (it will not display).
- 5. Press OK; 1)BELL/L.SPEAK N displays
- 6. Toggle between **Y** (yes) or **N** (no) for enabling or disabling the bell / loudspeaker, and then press **OK**.
- 7. Repeat from step 2 for all additional power supply modules.

Wireless Expanders

- 1. From the installer Programming menu, select $7 \rightarrow 1 \rightarrow 2$, scroll to 05)WL Expander, and then press OK (\checkmark).
- 2. Scroll to, and then edit the WL expander's physical ID number to match its DIP switch settings (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*).
- 3. Toggle to **WM** (wireless module), or select **NONE** to cancel its allocation, and then press **OK**.
- 4. Toggle to Y or N for bypassing the box tamper, then press OK.

Proximity Key Readers

- From the installer Programming menu, select 7→1→ 2, scroll to 06)Prox Key Rd, and then press OK (✓).
- 2. Scroll to, and then edit the physical ID number of the PKR (Proximity Key Reader) to match its DIP switch settings (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*).
- 3. Toggle to **PRK** or select **NONE** to cancel its allocation, and then press **OK**; the Mask screen displays where you can enable operability of specific partition(s) when using this PKR.



- 4. While scrolling through each block of partitions, designate the partition(s) to allow operation via the PKR. Enter a partition number to select it (it will display), or enter the number again to clear it (will not display), then press OK.
- 5. Scroll through the various "Controls" options and toggle between **Y** and **N** for each, and then press **OK**.
- 6. Repeat this procedure from step 2 for all additional PKRs.

Voice Module

- From the installer Programming menu, select 7→1→2, scroll to 07)Voice Module, and then press OK (✓).
- 2. Toggle to **T=Voice** (the Voice Module), or select **NONE** to cancel its allocation), and then press **OK**.
- 3. Enter the 2-digit **R. Phone Code** (remote phone code), and then press **OK**.
- 4. Scroll to select a language for voice announcements, and then press **OK**.

Sounders (Sirens)

- 1. From the installer Programming menu, select $7 \rightarrow 1 \rightarrow 2$, scroll to 08)Sounder, and then press OK (\checkmark).
- 2. Scroll to, and then edit the sounder's physical ID number to match its DIP switch settings (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*).
- 3. Toggle to the type (or select **NONE** to cancel its allocation), and then press **OK**.
- 4. Select the partition number(s) for the sounder. While scrolling through each block of partitions, designate the partition(s) to allow operation via the keypad. Enter a partition number to select it (it will display), or enter the number again to clear it (it will not display).
- 5. Scroll to and select the partition number for the siren, and then press OK.
- 6. Select Y to enable the sound (or toggle to N), and then press OK.
- 7. Select **Y** or **N** for squawk sound, and then press **OK**.
- 8. Select **Y** or **N** for squawk strobe, and then press **OK**.
- 9. Repeat from step 2 for all additional sirens.



Bus Zones (Bus Detectors)

1. From the **installer Programming menu**, go to: $7 \rightarrow 1 \rightarrow 2 \rightarrow 0 \rightarrow 9$ (**Install** \rightarrow **Bus Device** \rightarrow **Manual** \rightarrow scroll to **09)Bus Zone**), and then press **OK** (\checkmark); the first available (non-allocated) bus zone displays as per this example (the empty fields in the parenthesis indicate that the zone has not yet been allocated):

2. Scroll to the zone that you want to allocate the bus zone to, then press **OK**; the following (example) displays:

EXPLANATION:

- 1 is the bus line number
- **00** is the bus zone expander ID (1-32) that the bus detector is connected to (00 means wired to a bus line at the main panel PCB)
- 01 is the installer-set physical ID number for the bus detector
- **T** is the type (description).
- 3. Scroll to and then edit the bus detector's physical ID number to match its DIP switch settings (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*).
- 4. Toggle to the correct bus zone type (or select **NONE** to cancel its allocation), and then press **OK**; "Link Bus Input to Zone ###?" displays (whereas ### is the zone number).
- 5. To link (enable), toggle to **Y**, and then press **OK**.
- 6. Repeat this procedure for all additional bus detectors.

Bus Zone Expanders

- From installer Programming menu, go to: 7 → 1 → 2 → 1 → 3 (Install → Bus Device → Manual → Bus Expander); the 1st BZE (bus zone expander) displays (see *ID Number Formats, page 39* for a description of the displayed BZE format).
- 2. Scroll to, and then edit the BZE's physical ID number to match its DIP switch settings (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*).
- 3. Toggle to the type (or select **NONE** to cancel its allocation), then press **OK** (\checkmark).
- 4. Repeat from step 2 for all additional BZEs.



Step 4: Allocating Wireless Zones

Multiple 1-way and 2-way wireless detectors and accessories are connected to the system via wireless expansion modules – each of which supports multiple wireless zones, and is connected to a RISCO bus line or at the main panel PCB.

NOTE: To set additional parameters, see Installer Programming, page 77.

Allocating Wireless Expanders

Wireless expanders must be allocated before their respective wireless devices.

- > To allocate wireless expanders:
- 1. From the installer Programming menu, go to $7 \rightarrow 1 \rightarrow 2 \rightarrow 0 \rightarrow 5$ (Install \rightarrow Bus Device \rightarrow Manual \rightarrow WL Expander).
- 2. Scroll to, and then edit the WL expander's physical ID number to match its DIP switch settings (see *Describing Installer-Set ID Numbers for Bus Devices, page 38*).
- 3. Toggle to **WM** (to enable the Wireless Expander module) or **NONE** (to cancel its allocation), and then press **OK** (\checkmark).
- 4. Define whether to bypass the wireless expander box tamper by toggling between **Y** (to bypass) and **N** (to not bypass), and then press **OK**.

Allocating Wireless Devices

Allocate each wireless transmitting device via keypad or CS – either by sending an RF transmission, or enter the device's 11-digit code (see sticker on device for code).

Allocating Wireless Devices via RF Transmission

- > To allocate a wireless device via RF transmission:
- 1. From the installer **Programming menu**, go to $7 \rightarrow 2 \rightarrow 2 \rightarrow 1 \rightarrow 1$ (Install \rightarrow WL Device \rightarrow Allocation \rightarrow By RF \rightarrow Zone).
- 2. If you have multiple wireless receivers, scroll to the first one for which you wish to allocate it's wireless devices, and then press **OK** (✓); Each zone appears in one of the following formats: "**Select** (-:--:-)" which indicates the zone is available for allocating, or "**Select** (3:E02:06)" which, in this example, indicates the zone has already been allocated.
 - **NOTE:** Allocating the same WL zone again will re-write (cancel) prior allocation.
- 3. Scroll to the zone number you want to allocate (or enter the zone number using 3 digits for example enter 022 for zone 22), and then press **OK**; the wireless expander is now in "learn" mode for the next 180 seconds.
- 4. Per the table below, within the remaining time, send an RF transmission from a wireless device that you want to sync with the selected wireless expander. If "write message not found" displays, it means the transmission was not received and the device didn't get allocated.

11/2017 Page 62 5IN2413 B



Wireless Device RF Transmissions

Wireless Device (1-way and 2-way)	To send an RF transmission:				
Detectors: WatchOUT BWare iWave iWise Door-Window Contacts (Dual Channel, Pulse Count, Universal) Shock Glassbreak	Insert battery. Press and hold the tamper switch for at least 3 seconds.				
Smoke & heat detectors	Insert battery. Transmission is sent automatically within 10 seconds.				
Gas detectors	Insert battery. Within 10 seconds, press and hold the test button for 3 seconds.				
CO detectors	Insert battery. Within 10 seconds, press and hold the test button for 3 seconds.				
Flood detectors	Insert battery. Press both tamper buttons (back and cover) for at least 3 seconds.				
WL beams	Insert battery. Press the tamper spring for 5 seconds. Observe DIP switch settings according to model and tamper usage.				
Sirens (Round Indoor siren, Lumin8 siren, Outside sirens)	Insert battery. Within 10 seconds, press and hold the tamper switch for 3 seconds.				
2-way, 8-button remote control	Press both buttons ($\widehat{\mathbf{a}}$ and $\widehat{\mathbf{A}}$) for at least 7 seconds.				
4-button rolling code keyfob	Press and hold for at least 5 seconds (the LED lights up twice during the 5 seconds - the second time indicates the transmission is being sent).				
2-button panic keyfob	Press both buttons for at least 7 seconds.				
Wristband panic transmitter	Press the button for at least 7 seconds. The red LED lights up during transmission.				
2-Way WL Slim Keypad	Press and hold both buttons ($ \bigcirc$ and $ \bigcirc$) for at least 2 seconds.				



- 5. Repeat from step 3 for each additional wireless transmitting device to be allocated for this wireless expander.
- 6. After you have allocated the devices for this specific wireless expander, repeat the procedure from step 2 for all additional wireless expanders (and then their respective transmitting devices).
- 7. Now define the basic parameters for the wireless zones, such as labels, partitions, etc. (see *Step 5: Basic Zone Configuration for All Zone Types, page 65*).
- 8. After, it may be beneficial to perform advanced programming such as measuring and setting the background noise threshold level, followed by performing a wireless communication test (see *Advanced Programming for Wireless Zones*, page 68).

Allocating Wireless Devices via Code

- > To allocate a wireless device via the device's code:
- 1. From the installer Programming menu, go to $7 \rightarrow 2 \rightarrow 2 \rightarrow 2$ (Install \rightarrow WL Device \rightarrow Allocation \rightarrow By code)
- Scroll to the zone or wireless device type [keyfob, keypad, sounder]).
 NOTE: See table above for specific wireless device types.
- 3. If you have multiple wireless receivers scroll to the first one for which you wish to allocate it's respective wireless devices.
- 4. Press OK (✓); Each zone/device appears in one of the following formats: "Select (-:---:-)" which indicates it is available for allocating, or "Select (3:E02:06)" which, in this example, indicates it has already been allocated.
 - **NOTE:** If you try to allocate the same wireless zone number/device twice, the second allocation will over-write the prior allocation
- 5. Scroll to the zone number/device you want to allocate (or enter the zone number using 3 digits for example enter 022 for zone 22), and then press **OK**; Z=xxx (RE) WRITE: 00000000000 displays (whereas xxx = the zone number). For devices, the device name, number and (RE) WRITE: 000000000000 display.
- 6. Enter the 11-digit code of the wireless device to enroll, and then press **OK**; the zone number and device description appears if successfully allocated.



Step 5: Basic Zone Configuration for All Zone Types

Defining Basic Parameters

You can define basic parameters for all types of zones. The relevant parameters display dynamically according to the respective zone type.

You can define all the various zone parameters for one zone at a time by using the "One By One" option, or you can take a specific parameter and define it accordingly for multiple zones by using the "By Category" option. Also you may need to define the zone's termination resistance ("Resistance" option) if using relay detectors and zone expanders.

After defining the basic zone parameters, you can define advanced parameters for bus zones and wireless zones (see *Step 6: Advanced Zone Configuration for Bus Zones and Wireless Zones, page 68*).

Describing Zone Information Displayed at the Keypad

At the keypad you will be entering the zone information which will be displayed as per this example: **Z=125** (1:E03:06):

EXPLANATION:

- **Z=125** is the zone's index number (up to 512 zones possible)
- 1 is the RISCO bus line number (1-4)
- E03 is the expansion module ID (shows as E00 if wired at the terminal block)
- 06 is the zone's installer-set physical (and sequential) ID number

Defining Zone Parameters using the "One-By-One" Option

This option lets you to define all zone parameters, for one zone at a time.

- > To define zone parameters using the One-By-One option:
- 1. From the installer Programming menu go to: $2 \rightarrow 1 \rightarrow 1$ (Zones \rightarrow Parameters \rightarrow One by One); the first zone (Z=001) displays in the format described above.
- 2. Using the numeric keys, you can change the zone's 3-digit zone number to the one for which you want to define its parameters, and then press **OK** (\checkmark).
- 3. You can now define the following parameters for this specific zone (moving from one parameter type to another by pressing **OK**):



- a. **[Labels]:** Give the zone a descriptive "label" by typing over the default "ZONE" (see *Designating Labels*, page 49), and then press **OK**.
- b. [Partitions]: To select partitions (up to 32) to associate with the zone, scroll to the partitions, which are grouped in blocks: the first block contains partitions 01—08 (the default) if that is what was enabled. If additional partitions were enabled, scroll to all the blocks (of ten) they are located in: block 01—10, 11—20, 21—30, and 31—32. In each block, enter the relevant partition number/s (each will display as P=#) and then before pressing **OK**, scroll to the next blocks and do the same. When finished, press **OK**.
- c. **[Group]:** A group is a specific area (zone) that can be armed within a specific partition up to 4 groups [A—D] maximum per each partition. For each group letter, toggle between **Y** (select) and un-select, then scroll to the next group letter, if needed. When finished press **OK**.
- d. [Zone Type]: Scroll to select the zone type (35 zone types), then press OK.
- e. {Arm Sound]: Scroll to select an arming sound, and then press **OK**. Options: silent, bell only, buzzer only, bell+buzzer, door chime.
- f. [Stay (Partial Arm) Sound]: Scroll to select a partial arming sound, then press **OK**. Options: silent, bell only, buzzer only, bell+buzzer, door chime.
- g. [Disarm Sound]: Scroll to select the disarming arm sound for this zone, and then press OK. Options: silent, door chime.
- h. [Terminate]: For wired relay-detector zones only. Scroll to select the zone termination type, then press OK. Options: NC, EOL, DEOL, N/O, TEOL.
- i. [Response]: Scroll to select zone response time, then press OK. Options: NORMAL (400 ms), LONG (1 sec.), FAST (10 ms), and E. FAST (1 ms).
- 4. Press **OK** to go to the next zone, and repeat the procedure for all other zones.

Defining Zone Parameters using the "By Category" Option

For a specific parameter type, this lets you to define it accordingly for multiple zones (as you go from one to another, scrolling through all zones in the system).

- To define zone parameters using the By-Category option:
- 1. From the installer Programming menu go to: $2 \rightarrow 1 \rightarrow 2$ (Zones \rightarrow Parameters \rightarrow By Category).
- Scroll to arrive to the parameters and their respective options to modify.
 Parameters: Label, Partition, Type, Sound, Termination, Loop Response,
 Advanced. Press OK (✓) to confirm after each selection. Use the numeric keys
 to enter the zone number (or numeric values) where needed.



Defining Zone Termination Resistance using the "Resistance" Option

Regardless of which method was used to define zone parameters (One-by-One, or By Category), if you had specified zone termination in the Termination parameter (relevant for wired zones only), you have only specified what **type** of termination configuration to apply for the wired zone – EOL, DEOL, TEOL, NC, or NO. In the Resistance option, you now define the **termination resistance value(s)** for the wired zone.

If using a zone expander (16-zone, 8-zone, single-zone), in addition to defining the termination resistance for all the relay detectors connected to it – which can be any combination of EOL, DEOL, TEOL detectors – you also need to define the termination resistance compatibility for the zone expander itself, according to the "highest" EOL level of any relay detector you intend to connect to it. For example, if you have EOL, DEOL and TEOL detectors connected to the zone expander (or if you have only EOL and DEOL detectors, but you want to leave open the possibility of adding a TEOL detector to the zone expander in the future), you will need to set the zone expander's termination resistance values to TEOL – the "highest" level.

Default termination resistance values for RISCO relay detectors are:

- EOL (end-of-line): 2.2K Ω
- **DEOL** (double end-of-line): 2.2K Ω , 2.2K Ω
- TEOL (triple end-of-line): $4.7K \Omega$, $6.8K \Omega$, $12K \Omega$

NOTE: For retrofit installations, you can define the resistance compatibility according to the resistors already installed in the relay detectors.

- > To define zone termination resistance values:
- 1. At Programming menu go to: $2 \rightarrow 1 \rightarrow 3$ (Zones \rightarrow Parameters \rightarrow Resistance)
- 2. Scroll to the detector-compatible termination resistance option, then press **OK**.

Zone Termination Resistance Values (in Ohms)

	EOL	DEOL	TEOL		EOL	DEOL		EOL	DEOL
00		Custom		05	3.74K	6.98K	10	3.3K	3.3K
01	2.2K (default)	2.2K, 2.2K (default)		06	2.7K	2.7K	11	5.6K	5.6K
02	4.7K	6.8K	4.7K, 6.8K, 12K, (default)	07	4.7K	4.7K	12	2.2K	1.1K
03	6.8K	2.2K		08	3.3K	3.3K	13	2.2K	4.7K
04	10K	10K		09	1K	1K			



Step 6: Advanced Zone Configuration for Bus Zones and Wireless Zones

NOTE: To set additional parameters, see *Installer Programming*, page 77.

Advanced Programming for Bus Zones

- Configuring advanced parameters for bus zones:
- At the installer Programming menu, go to: 2→1→2→7→4 (Zones→ Parameters→By Category→Advanced→BZ Parameters), then press OK (✓).
- 2. Scroll to the bus zone number to program, and then press **OK**.
- 3. Scroll through the options and configure the relevant parameters for the zone, pressing **OK** after each to confirm.

Advanced Programming for Wireless Zones

- > Configuring advanced parameters for wireless zones:
- At the installer Programming menu, go to: 2→1→2→7→5 (Zones → Parameters→By Category→Advanced→WL Parameters), then press OK (✓).
- 2. Enter the wireless zone number to program, and then press **OK**.
- 3. Scroll through and configure the relevant parameters for the zone, pressing **OK** after each to confirm.



Measuring Background Noise Level and Defining the Threshold Limit

If the system uses wireless devices, you can measure ("calibrate") the background noise that the main panel detects, and also define the acceptable threshold value.

Background noise (RF interference) is typically generated by other non-system devices operating in close proximity to the system, and high amounts may interfere with the system, causing "jamming." Communication between your system's wireless devices (via wireless expander module/s) and the main panel must be stronger than any detected background noise at the main panel, therefore regardless if the current level of background noise the panel detects seems insignificant, it is recommended to additionally perform a Wireless Communication Test, to check a wireless device's signal (see *Performing a Wireless Comm. Test for Measuring Signal Strength, page 70*).

Measuring the background noise level provides an indication whether the main panel is mounted at a good location.

Defining the threshold limit value enables you to determine how much background noise your system will tolerate before it generates jamming events. The lower you define the threshold value, the more "sensitive" the system will be (it will report jamming events more frequently), and the higher you define the threshold value, the less sensitive the system will be (it will report jamming events less frequently).

- To calibrate (measure) the background noise:
- From the installer Programming menu, select 7→2 →1 (Install→WL Device→RX Calibration); CHOOSE RECEIVER (wireless expander) displays.
- Scroll to select the wireless expander module, and then press OK (✓); the most recently measured result ("THOLD") for that wireless expander module displays.
- 3. To re-calibrate (re-measure) the background noise, toggle to **Y** (yes), and then press **OK**; the new result ("NEW THOLD") displays.
- 4. Press **OK** to confirm. If the resulting value is not acceptable, for example if it is high due to what you believe is a source of high background noise that's inherent to the main panel's location, then you may want to move the main panel to a better location. Another option you may consider is to re-define the noise level threshold value (see the following procedure).



> To define the noise level threshold value:

- From the installer Programming menu, select 7→2→1 (Install→WL Device→RX Calibration); CHOOSE RECEIVER (wireless expander) displays.
- Scroll to select the wireless expander module, and then press OK (✓); the most recently measured result ("THOLD") for that Wireless Expander module displays.
- 3. Toggle to N (no), and then press **OK**; the most recently measured result displays again, over which you can now enter a new threshold value (between **11–86**), and then press **OK**.

Performing a Wireless Comm. Test for Measuring Signal Strength

A Wireless Communication test result (the signal strength between the wireless device and the main panel) must be higher than the background noise measured at the main panel. If the background noise level is higher, you will most likely need to move the wireless device to a better location.

IMPORTANT: To perform a Wireless Communication test, you will first need to exit the installer Programming menu. If you then ever need to go back to the installer Programming menu, leave DIP switch 2 in the **OFF** position, otherwise it will reset installer, sub-installer and Grand Master codes to default factory settings.

> To perform a Wireless Communication test:

- 1. Exit the installer Programming menu (see *Exiting Installer Programming Menu after Initial System Programming, page 208*).
- 2. Ensure all wireless devices are activated.
- 3. Enter the installer code (default is 1111), and then press $OK(\checkmark)$.
- 4. Scroll to Maintenance, then press OK; you are in installer Maintenance menu.
- 5. Scroll to Wireless Test, then press OK; Zones displays.
- 6. At Zones, press **OK**; Comm. Test displays.
- 7. At Comm. Test, press OK.
- 8. Scroll through all wireless zones to view each of their results. The test results range from **11** (lowest) to **86** (highest), and display as per this example:

ZONE 025 001) ZONE 025:86

EXPLANATION:

001= Wireless device index number, 025=zone,: 86 = result (signal strength)



Step 7: Configuring System Communication

NOTE: To set additional parameters, see *Installer Programming*, page 77.

Defining Primary Communication Channels & Parameters

- > To define the primary communication channel:
- 1. From installer Programming menu go to: 5) Communication menu→1) Method
- 2. Scroll to the primary communication channel: (GSM, PSTN, IP), then press OK.
- 3. Scroll through the respective parameters (see the table below), and define the relevant ones, pressing **OK** after each parameter that is set.

NOTES:

- You can connect to the Cloud and additional destinations/monitoring station in parallel, using a single multi-socket communication module (IP, GSM 2G or GSM 3G), or by using 2 single-socket communication modules
- For setting the backup communication channel to the monitoring station, see *Defining Monitoring Station Account Parameters*, page 72.
- ProSYS Plus menus reflect only the communication modules that are installed.
- For IP communication, you can set it to Dynamic IP or Static IP. See *Setting Dynamic IP / Static IP*, page 56.
- To establish GPRS communication, a SIM card must be installed.

Primary Comm.	Parameters
Channel	
	1) Timers → 1)PSTN Lost, 2)Wait Dial Tone
PSTN	2) Control → 1)Alarm PH CUT (Y/N), 2)Answering machine (Y/N)
	3) Parameters → 1)Dial Method [DTMF, Pulse 20 BPF, Pulse 10 bps],
	2)Rings To Answer, 3)Area Code, 4)PBX Prefix, 5)Call Waiting
	1) Timers → 1)GSM Lost, 2)GSM Net Loss, 3)SIM Expire, 4)MS Polling
	[Primary, Secondary, Backup]
	2) GPRS → 1)APN Code, 2)APN User Name, 3) APN Password
	3) Email → 1)Mail Host, 2)SMPT Port, 3)Email Address, 4)SMPT UserName,
GSM	5)SMPT Password
GOW	4) Controls → 1)Caller ID (Y/N)
	5) Parameters → 1)PIN Code, 2)SIM Number, 3)SMS Centre PH, 4) GSM RSSI
	[Disable, Low signal, High signal]
	6) Prepay SIM → 1)Get Credit By [Credit SMS, Credit Voice, Service Cmnd],
	2)PN To Send, 3)PN to Receive, 4)SMS Message
	1) IP Config → 1)Obtain IP [Dynamic IP, Static IP], 2)Panel Port
IP	2) E-mail [Mail Host, SMTP Port, Email Address, SMTP Name, SMTP Password],
11	3) Host Name [Security_System]
	4) MS Polling [Primary, Secondary, Backup]



Defining Communication with the Monitoring Station

You enable and define communication settings for monitoring station account(s), along with the backup communication channel and other associated parameters that define the nature of communication, event reporting and confirmation between the system and the monitoring station. Monitoring station link-up options are via TCP/IP, PSTN and GSM/GPRS.

Enabling Monitoring Station Communication

- > To enable monitoring station communication:
- 1. From installer Programming menu go to: 1)System → 2)Controls → 3)Communication → 1)MS Enable.
- 2. Press \bigcirc to scroll to **Y**, and then press **OK** (\checkmark).

Defining Monitoring Station Account Parameters

- > To define parameters for a monitoring station account:
- From installer Programming menu go to: 5)Communication→ 2)MS→
 1)Report Type; MS1 (MS account 1) displays.
- 2. Scroll to the MS account number you want to define, and then press $OK(\checkmark)$.
- Scroll to select the reporting type (Voice, IP, SMS, SIA IP), and then press OK; the available primary/backup communication channel options appear (according to the primary communication channel already selected).
- 4. Scroll to select from the primary/backup communication channel options, and then press **OK**. Note that if "GSM Only," "PSTN Only" or "IP Only" is selected, it will not have a backup communication channel.
- Enter any needed parameters, and then press OK. Note that "GSM Only" means there will be no backup communication channel for this primary channel.
- 6. Go to: 5)Communication \rightarrow 2)MS \rightarrow 2)Accounts, scroll to select an account number to define, enter its account number, and then press OK.
- 7. Go to: 5)Communication → 2)MS → 3)Comm Format, and then press OK. Scroll to select a transmission format (Contact ID or SIA), and then press OK.
- 8. Go to: 5)Communication → 2)MS → scroll to and define other options as needed: 4)Controls, 5)Parameters, 6)MS Times, 7)Report Split, 8)Report Codes.
- 9. Repeat the procedure for all other monitoring station accounts used.



Step 8: Configuring Cloud Connectivity

The RISCO Cloud is RISCO's application server that handles all communication between the system, monitoring station, as well as system users (for the Smartphone and Web apps). Cloud communication enables remote monitoring and control of the system, sending event notifications, zone licensing and viewing real-time video verification via RISCO's VUpoint IP cameras.

NOTE: To set additional parameters, see *Installer Programming*, page 77.

Enabling / Disabling Cloud Communication

The system is Cloud-enabled by default.

- > To enable or disable Cloud communication:
- From the installer Programming menu go to: 1)System → 2)Controls →
 3)Communication → 4)Cloud Enable [N].
- 2. Toggle between **Y** and **N** to enable/disable Cloud communication, and then press $OK(\checkmark)$.

Defining RISCO Cloud Connectivity

If using IP and/or GSM modules, you need to define the network connectivity to the RISCO Cloud server.

- > To define network connectivity to the RISCO Cloud:
- 1. With Cloud communication enabled (default), from the **installer Programming** menu go to: **5)Communication menu** → **5)Cloud**
- Scroll to, and define parameters for the following as needed (note that customer-specific parameters may differ):
 - 1) IP Address: (default is riscocloud.com)
 - **2) IP Port:** (default is 33000)
 - 3) Password: Password for server access (default is AAAAAA).
 - **4) Channel:** Select **IP Only** or **GSM Only**, depending on the installed communication modules in the panel.
 - **5) Controls:** Toggle between **Y** and **N** to enable/disable MS Call All, FM Call All, App Arm, and App Disarm.



Step 9: Configuring Common System Parameters

NOTE: In addition to defining these common system parameters, see *Installer Programming*, *page* 77 for programming all other parameters in the installer Programming menu, as well as in the other installer menus.

Defining System Users

As the installer, you must set up the user codes for all the **system users** (up to 500 codes total, which includes 499 users including the Grand Master, plus the installer). Performed from a wired keypad or from the CS, you configure the code length and the authority levels (permissions) for the system users as determined by the Grand Master (the default authority level is **User**). The Grand Master will select the numerical codes for each user from a wired keypad or the Web user interface. The installer can also change the default installer and Grand Master codes.

NOTE: You designate the code lengths to be either 4 or 6 digits in length. If defined as 6 digits, the length apply for everybody - all users/installers, however if defined as 4 digits, Grand Master, Installer, and Sub-Installer must have 4-digit codes, while the system users can codes of various lengths, from 1—4 digits.

Defining User Codes

- > To define user codes:
- 1. From installer Programming menu go to: 4)Codes \rightarrow 1)User then press OK (\checkmark).
- 2. Scroll to a user's index number (1—500 users possible), then press **OK**; the user number and "1) Partition" display.
- 3. Press **OK**. To assign partition(s) this user will be allowed to operate, do the following:
 - a. While scrolling through each increment of 10 partitions, select partition(s) to allow operation by this user. Enter a partition number to select it (it will display), or enter the number again to clear it (it will not display).
 - b. When finished selecting all partition numbers press OK.
- 4. To assign an authority level for this user, do the following:
 - a. After assigning partitions (step 3), scroll to 2) Authority, then press OK.
 - b. Press to scroll to the authority level for this user (User, Arm Only, Maid, Unbypass, Guard, Duress, UO Control, Master), then press OK.

NOTE: "Duress" is not an authority level, but a feature available to all users. By selecting this option (use any available user index number) the Grand Master will then assign a code that all users can use in times of duress, where they are forced to disarm the system. The monitoring station is sent an alarm, but the panel is silent.



Changing the Default Installer Code

The default installer code is **1111.** You can either use this code during system programming, or you can change it.

- To change the installer code:
- From the installer Programming menu select 4)Codes → 3)Installer, and then press OK (√); CODE: 1111 displays.
- 2. Scroll to each digit as you overwrite with a new code, and then press **OK**.
- 3. Re-enter the new code, and then press **OK**.

Changing the Default Grand Master Code

The default Grand Master code is **1234**, which can be changed by the installer. Be sure to advise the customer that that after system installation, the primary system user ("Grand Master") should change the Grand Master code to be unique and confidential (refer to the ProSYS Plus User documentation).

- > To change the default Grand Master code:
- 1. From the installer Programming menu select 4)Codes \Rightarrow 2)Grand Master, and then press OK (\checkmark); **** displays.
- 2. Scroll through the asterisks and enter a new code over them, and then press **OK**.

Defining Follow Me Destinations

You can enable and define up to 64 Follow-Me destinations.

NOTE: The actual telephone numbers and email addresses for FM destinations are defined by the Grand Master in the User menu.

Enabling Follow Me

- > To enable using Follow Me destinations:
- From the installer Programming menu go to: 1)System → 2)Controls → 3)Communication → 2)FM Enable, toggle to Y to enable (or to N to disable), and then press OK (✓).



Defining Follow Me Parameters

- > To define parameters for a Follow Me destination:
- From the installer Programming menu go to: 5)Communication menu →
 4)Follow Me → 1)Define FM); Follow Me 01 displays (1st FM destination).
- 2. Scroll to a FM number to define, and then press **OK** (\checkmark).
- 3. Scroll through the following options and define them as needed: **Report Type**, **Partition**, **Events**, **Restore Events**, **Remote Control**.

Defining System Timers

- To define system timers:
- 1. From the installer Programming menu, select 1)System → 1)Timers
- 2. Scroll to select from the options and modify their parameters as needed.

Defining All Additional Parameters

For defining all additional system parameters in the installer Programming menu, as well as in other installer menus, see the next section (Installer Programming).

IMPORTANT:

- After you have finished programming all relevant parameters in the installer Programming menu at the time of initial system setup, you must then perform the procedure to exit the installer Programming mode. See Exiting Installer Programming Menu after Initial System Programming, page 208.
- For accessing the installer Programming menu again after initial system setup (after you have performed the procedure to exit installer Programming mode), see *Subsequently Accessing & Exiting Installer Programming Menu, page 209.*
- To restore the system's factory defaults, see *Restoring Manufacturer's Programming Defaults, page 209.*



Installer Programming

ProSYS Plus can be programmed by the installer using the following:

- Wired keypad
- **Configuration Software** (locally or remotely connected see the CS documentation).

When performing installer programming in the various installer menus, some of the parameters display dynamically, meaning that the keypad will only display the parameters for the respective modules/hardware that are installed.

IMPORTANT: After finishing to work in the installer Programming menu the first time (for initially programming the system), you must then exit the menu. See *Exiting Installer Programming Menu after Initial System Programming, page* 208.

Defining Parameters – Installer Programming Menu

This section describes all parameters contained in the installer Programming menu, including the common definitions described prior in this manual.

The installer Programming menu consists of the following sub-menus:

- ① System
- 2 Zones
- 3 Outputs
- Codes
- **5** Communication
- 6 Audio
- **⑦** Install
- ® Devices
- © Exit



① System

The System sub-menu contains the following programmable parameters:

- Timers
- Controls
- Labels
- Sounds
- Settings
- Automatic Clock
- Service Information
- Firmware update
- Partition Quantity

①① Timers

The Timers parameters specify the time duration of an operation.

System → Timers

Quick keys	Parameter	Default	Range
0000	Exit/Entry Delay 1		
	Exit/Entry delays (Group 1).		•
0000	Entry Delay 1	30 seconds	01—255 seconds
	Duration of entrance delay 1.		
00002	Exit Delay 1	45 seconds	01—255 seconds
	Duration of exit delay 1.		
0002	Exit/Entry Delay 2		
	Exit/Entry delays (Group 2).		
00020	Entry Delay 2	30 seconds	01—255 seconds
l	Duration of entrance delay 2	1	1
00022	Exit Delay 2	45 seconds	01—255 seconds
	Duration of exit delay 2.		
0008	Bell Timeout	04 minutes	01—90 minutes
	Duration of the external sounder(s) during alarm.		



Quick keys	Parameter	Default	Range	
0004	Bell Delay	00 minutes/seconds	00—90 minutes/seconds	
	The time delay before the key after the onset of an alarm.	pad sounder and the exte	rnal sounder operate	
0006	Switch Aux Break	10 seconds	00-90 seconds	
	The time that the power supplied to the system's smoke detectors through the programmable output is interrupted during a user-initiated smoke detector reset, typically performed after a fire alarm or automatically when the fire verification is defined in the system control (see <i>Double Verification of Fire Alarms, page 85</i> for additional details). Note This feature is supported through any programmable output that is defined			
	as Switch AUX.	agirany programmable c	atput that is defined	
0006	Wireless			
	Specifies the time intervals re	ating to the operation of	the wireless module	
00060	Jamming Time	None	None, 10, 20 or 30 seconds	
	Specifies the period of time that the system's wireless module tolerates unwanted radio frequencies capable of blocking (jamming) signals produce by the system's transmitters. Once the specified time is reached, the main panel sends a report code to the alarm receiving center (see <i>Appendix E: Monitoring Station Report Codes, page 235</i> → Jamming faults). ① NONE ② 10 SEC ③ 20 SEC ④ 30 SEC NONE: No jamming will be detected or reported.			
	Note Different sounds will be produced when jamming is detected, depending the defined Audible Jamming time			
00062	RX Supervise	0	0–7 hours	
	Specifies how often the system expects to get a signal from the system's transmitters. If a signal from a zone is not received during the specified the zone will be regarded as lost, the system will send a report code to the monitoring station, and the system status will be "Not Ready."			
	Note Setting to 0 hours disables supervision. It is recommended to set the supervision time to a minimum of 3 hours			



Quick keys	Parameter	Default	Range	
0006	TX Supervise	058	1-255 minutes	
	Specifies how often a 2-way wireless device generates a supervision request to the system. If any accessory doesn't respond to the request at least once during the RX Supervision time, the system will regard the accessory as Lost.			
	Note Device will generate the supervision message according to the time defi			
	Important The RX Supervision time shooder to eliminate a false lost	-	Supervision time in	
00064	Service Mode	020	1–255 minutes	
	The time period that all tamp for purposes of battery repla		_	
0000	AC Off Delay	30	000–255 minutes	
	In the case of a loss of AC power, this parameter specifies the delay period before reporting the event or operating the programmable output. If the delay time is set to zero, there will be no delay period.			
0008	Guard Delay	30	01–99 minutes	
	Specifies the time period tha user enters a Guard code.	t the system will be unarm	ed after an authorized	
0000	Swinger Limit	00	00–15 times	
	A swinger is a repeated violation of the same zone, often resulting in a nuisance alarm and usually due to a malfunction, an environmental problem, or the incorrect installation of a detector or sensor. This parameter specifies the number of violations of the same zone reported during a single armed period, before the zone is automatically bypassed. Notes Enter 00 to disable the swinger shutdown. EN 50131 compliance with swinger limit of no more than 10 times			
0000	Redial Wait	30	0–255 seconds	
	The number of seconds between attempts at redialing the same phone number. Applies to the parameter MS Retries, page 169, and Follow Me Retries, page 187.			
①①0	Last Exit Sound	10	01–255 seconds	
	Defines the final seconds of t change (at keypads), indicati		•	



Quick keys	Parameter	Default	Range	
0002	Buzzer at Stay	15	01—99 seconds	
	Defines how much time the keypad's buzzer will sound before the external sounders start to operate while an alarm occurs in Stay (partial arming) mode. The timer is relevant only if the system control Bell → Buzzer is defined as Yes.			
①①08	Status Timer	000	0—255 seconds	
	When the time is defined as (arming period. When the tim	Defines if the system status will be displayed while the system is armed. When the time is defined as 0, the system status will be displayed during the arming period. When the time is not 0, the system status will be displayed only during this interval after the arming period starts.		
0000	Service Timer	000	0—255 weeks	
	Use this timer to periodically generate a "service required" message so that the user is reminded that a service call is required. The user may continue to arm and disarm the system. When this time is other than 0, the panel will count down the time. When the time expires, a service message will be displayed on all LCD keypads whenever the keypad is on Disarm display. To clear the message, the installer needs to reset the time, enter a code from the Anti Code menu or perform a "remote reset" to the panel.			
0006	Pulse Open	00 sec	0—255 seconds	
	This timer is relevant only for zones defined with a pulse counter greater than one. See <i>Pulse Counter</i> , page 116 (②①②⑦②).			
	If such a zone is regarded as not ready for the time defined under this timer, then the zone will be tripped and act according to its type definition.			
0000	Inactivity Timer	0	0-255 minutes	
	This timer relates to the Automatic Arm/Disarm scheduler. If there is no signal from any of the zones located in a partition that is defined under a Arm/Disarm scheduler for the time defined as Inactive Timer , then the automatic schedule will be activated and the relevant partitions will be a armed (according to the schedule definition).			
Note Inactive Timer of scheduling program should be User Menu → Clock → Scheduler → Weekly → → 6)Inactive				
0008	Timeout Beeps	15	0-60 minutes	
	Beeping sound indication for	timeout		



①② Controls

The Controls sub-menu has the following configurable parameters:

- Basic
- Advanced
- Communication
- EN 30131
- PD6662:2010 (BS 8243:2010)
- CP-01
- Device

$\mathbf{System} \rightarrow \mathbf{Controls} \rightarrow \mathbf{Basic}$

Quick keys	Parameter	Default	Range
000	Basic Programming		
	This section refers to the r	nost common controls in t	he system.
02000	Quick Arm	Yes	Yes/No
		for a user code when armi required for arming (full o	•
02002	Quick UO	Yes	Yes/No
	YES: A user can activate a utility output without the need to enter a user code. NO: A user code is required to activate a utility output.		
02008	Allow Bypass	Yes	Yes/No
	YES: Permits zone bypassing by authorized system users after entering a valid user code. NO: Zone bypassing is not permitted.		
02004	Quick Bypass	No	Yes/No
	YES: Eliminates the need for a valid user code when bypassing zones. NO: Qualified users must enter a valid user code to bypass zones.		



Quick keys	Parameter	Default	Range
①②① 0 6	False Code Trouble	Yes	Yes/No
	YES: A false code report is sent to the monitoring station after three successive attempts at arming or disarming in which an incorrect user code is entered. No alarm sounds at the premises, but a trouble indication appears on the wired keypads. NO: A false code report is sent to the monitoring station and a local alarm is sounded at the premises. NOTE: Above Grade 2, after 10 invalid code entry attempts the keypad will lock for 90 seconds (relevant for all user codes and operations – arming, disarming, etc.). This feature is automatically activated, and there are no parameters to set for it.		
02006	Bell Squawk	Yes	Yes/No
	 YES: Arming or disarming the system using a remote control, wireless keypad or a keyswitch produces a brief "chirp" and activates the strobe as follows: 1. One chirp indicates the system is armed 2. Two chirps indicate the system is disarmed. 3. Four chirps indicate the system is disarmed after an alarm. NO: No "chirp" is produced. 		
02007	3 Minute Bypass	No	Yes/No
	YES: Bypasses all zones au restored to an "unpowered and/or smoke detectors. NO: No bypassing occurs.	d" system to allow for the	-
02008	Audible Panic	No	Yes/No
	YES: The sirens operate when a "panic alarm" is initiated (if defined) at the keypad, at the remote control, or when a panic zone is activated. NO: No siren operation occurs during a panic alarm, making the alarm truly "silent" at the premises (Silent Panic). Note		
	The system always transm	its a panic report to the m	onitoring station.
①②① 0 9	Buzzer → Bell	No	Yes/No
	YES: If an alarm occurs wharm) mode, a buzzer soun (see <i>Buzzer at Stay page 8</i> : NO: An alarm in the Stay simultaneously.	ds for the time defined un 1) before the external sirer	der Buzzer At Stay as operate.



Quick keys	Parameter	Default	Range	
02000	Audible Jamming	No	Yes/No	
	Relates to the Jamming Time parameter, described on page 79 YES : Once the specified time is reached, the main panel activates any internal sounders and sends a report code to the monitoring station. NO : Same as above, except the internal sounders do not operate.			
02000	Exit Beeps at Stay	No	Yes/No	
	Determines whether the system will sound beeps during the exit time when in Stay arming (partial arming). YES: Exit beeps will sound. NO: Exit beeps will not sound.			
020 02	Forced Keyswitch Arming	Yes	Yes/No	
	YES: Keyswitch or Proximity Key arming is performed on any partition. Any violated ("Not Ready") zones in the partition will be bypassed automatically. The partition is then "force-armed," and all intact zones are capable of producing an alarm. NO: The partition cannot be armed until all violated ("Not Ready") zones are secured.			
02006	Arm Pre-Warning	No	Yes/No	
	Related to auto arm/disarr YES: For any partition(s) s (warning) countdown will arming. During this period You can enter a valid user delay the partition's auton When an "Auto-Arm" par longer be automatically ar The extended 4.25 minutes arming. NO: Auto arming for any designated time. The prog signal occur as expected.	et up for auto arming, and commence 4.25 minutes pd, exit delay beeps will be code at any time during the natic arming by 45 minute tition is disarmed, as described during the current days warning does not apply the programmed partition(s) the commence of the programmed partition(s) the commence of the current days warning does not apply the programmed partition(s) the commence of the current days warning does not apply the programmed partition(s) the current days are commenced to the current days are commenced to the current days are commenced to the current days are current days.	prior to the automatic heard. the countdown to s. tribed above, it can no ay. to automatic partial	



$\mathbf{System} \rightarrow \mathbf{Controls} \rightarrow \mathbf{Advanced}$

Quick keys	Parameter	Default	Range
122	Advanced		
	This section refers to the advanced controls in the system.		
12200	Double Verification of Fire Alarms	No	Yes/No
	YES: Implemented on detection of smoke or fire for verification. Power to the smoke detector(s) in the affected zone is cut off and restored after the time defined in the Switch Aux Break delay (Switch Aux Break, page 79). If a subsequent detection occurs in the same zone within one minute at the end of the Switch Aux time, the system emits a fire alarm. NO: No fire alarm verification takes place.		
12202	Alarm Zone Expander Cut	No	Yes/No
	YES: Produces an alarm if the any expander is lost. A reponor NO: No alarm occurs. The sindication.	rt is transmitted to the	e monitoring station.
12206	Code Grand Master	No	Yes/No
	YES: Only a user with the Grand Master authority level can change all user codes, along with the time and date. NO: Grand Master as well as those with the Master authority level can change their own user codes and all codes of those with lower authority levels – in addition to allowing changing the time and date. Also enables those with User and Unbypass authority levels to change their own codes.		
12204	Area	No	Yes/No
	Changes the system operation to area instead of partition, which then changes only the operation of a common zone. YES: When selected, the following apply: A common zone will be armed after any partition is armed. A common zone will be disarmed only when all partitions are disarmed. NO: When selected, the following apply: A common zone will be armed only when all partitions are armed. A common zone will be disarmed when any partition is disarmed.		



The state of the s			
Parameter	Default	Range	
Global Follower	Yes	Yes/No	
YES: Specifies that all zones (that are programmed to follow an Exit/Entry delay time) will follow the Exit/Entry delay time of any armed partition.			
NO : Specifies that all zones (that are programmed to follow an entry delay time) will follow the entry delay time of only the partitions to which they are assigned.			
Summer/Winter	No	Yes/No	
YES: The ProSYS Plus automatically sets its Time of Day clock one hour ahead in the spring (on the last Sunday in March) and one hour back in the Autumn (on the last Sunday in October). NO: No automatic time accommodation is made			
24-Hour Bypass	No	Yes/No	
_	* *		
Technician Tamper	No	Yes/No	
YES: It is necessary to enter the installer code to reset a tamper alarm (). Therefore, resetting a tamper alarm requires the intervention of the alarm company. However, the system can still be armed although the tamper indication is on. NO: Correcting the problem resets a tamper alarm, requiring no alarm company assistance.			
Technician Reset	No	Yes/No	
YES: It is necessary to enter the installer code to reset an alarmed partition after it has been disarmed. This requires the intervention of the alarm company technician/installer. Note Before the Ready LED (✓) can light, all zones within the partition must be secured. NO: Once an alarmed partition is reset the Ready LED lights when all zones are secured.			
	YES: Specifies that all zones delay time) will follow the ENO: Specifies that all zones time) will follow the entry dare assigned. Summer/Winter YES: The ProSYS Plus autor ahead in the spring (on the LAUTUMN (on the last Sunday NO: No automatic time account and the entry dare assigned. YES: It is possible for the US NO: It is not possible for the US NO: It is not possible for the US NO: It is necessary to enter Therefore, resetting a tamper company. However, the sys indication is on. NO: Correcting the problem company assistance. Technician Reset YES: It is necessary to enter after it has been disarmed. The company technician in the entry is a secured. Note the Ready LED (I is note) the secured. NO: Once an alarmed partition.	YES: Specifies that all zones (that are programmedelay time) will follow the Exit/Entry delay time of NO: Specifies that all zones (that are programmed time) will follow the entry delay time of only the are assigned. Summer/Winter YES: The ProSYS Plus automatically sets its Time ahead in the spring (on the last Sunday in March) Autumn (on the last Sunday in October). NO: No automatic time accommodation is made. 24-Hour Bypass No YES: It is possible for the user to bypass a 24-hour NO: It is not possible for the user to bypass a 24-hour NO: It is necessary to enter the installer code to refer the company. However, the system can still be armed indication is on. NO: Correcting the problem resets a tamper alarm company assistance. Technician Reset No YES: It is necessary to enter the installer code to refer it has been disarmed. This requires the intercompany technician/installer. Note Before the Ready LED (✓) can light, all zones we be secured. NO: Once an alarmed partition is reset the Ready	



Quick keys	Parameter	Default	Range	
12200	Installer Tamper	Yes	Yes/No	
	For above Grade 2, the system control bit "INSTALLER TAMPER" shall be defined as YES .			
	YES: A Tamper event causes a lockout condition which can only be reset by the installer code or by anti-code.			
	NO: A Tamper event does n			
02200	Low Battery Arming	Yes	Yes/No	
	YES: Allows system arming in the power supply expans: NO: System arming is disab	ion module).		
02202	Bell 30/10	No	Yes/No	
	YES: Any internal sounders cease to sound for 10 seconds after each 30 seconds of operation. NO: Any internal sounders operate without interruption.			
02208	Fire Temporal Pattern	No	Yes/No	
	YES: During a fire alarm, the sirens produce a pattern of three short bursts followed by a brief pause. NO: During a fire alarm, the flow of sounds produced by the siren is a pattern of two seconds ON, then two seconds OFF.			
02200	IMQ Install	No	Yes/No	
	 YES: Causes the following parameters to function as follows: Auto Arm Bypass: If there is an open zone during the auto arm process, the system will be armed, and a silent alarm will be activated (unless the open zone is closed). A utility output defined as "Auto Arm Alarm" is activated. A utility output defined as "Zone Loss Alarm" is activated Guard User: If a Guard user disarms a partition, the system will be armed automatically after the predefined time period (see Guard Delay page 80). If there is an open zone during the arming process, the system will be armed, and an alarm will be sounded (unless the open zone is closed). NO: Causes the following parameters to function as follows: Auto Arm Bypass: If the Auto Arm programming arms the system and there is an open zone during the auto arm, the system will bypass the open zones and arm the system. 			



Quick keys	Parameter	Default	Range	
	A utility output define			
	A utility output define			
			tion, the system will be	
	armed automatically a	*	1 '	
	Delay page 80). If there is an open zone during the arming process,			
	the partition will be by	rpassed.	<u> </u>	
02206	Disable Incoming Calls	No	Yes/No	
	This parameter is used to dis	~	ls trying to come in	
	through the voice channel (C	*		
	YES : Incoming calls from vo			
	NO: Incoming calls from vo	ice channel are enable	ed.	
	Note			
	Incoming data call via the G	SM data channel is sti	ill enabled	
02206	Disable Keypad When	No	Yes/No	
	Auto Disarm Exists			
	YES: When a partition is armed manually or in auto arm mode, and an			
	auto disarm time is defined, this parameter specifies that all the keypads			
	that are masked to this partition will not function and that it will be			
	impossible to disarm the rele	evant partition.		
	Note	ad ambrohrousina tha C	Configuration Coffessors on	
	The partition can be disarmed the Auto Disarm function.	ed offig by using the C	Comiguration Software of	
	NO: When a partition is arm	ned manually or in Au	ito Arm mode, and an	
	auto disarm time is defined,	•		
02200	Buzzer Delay	No	Yes/No	
	YES: The keypad buzzer wil	ll be silent during the	bell delav time.	
	NO: The keypad buzzer wil	_	•	
	occurs.		y	
12208	Speaker = Buzzer	No	Yes/No	
	YES: The internal sounder w	vill follow the operation	on of any keypad's	
	buzzer.	-	· · · ·	
	NO: The internal sounder w	ill follow the external	sounder operation (and	
	not the keypad's buzzer).			



Quick keys	Parameter	Default	Range	
02200	Confirmation Speaker	No	Yes/No	
	YES: A confirmed alarm triggers the internal sounder.			
	Note			
	A confirmed alarm actually eliminates the buzzer delay time, causing the internal speaker to trigger immediately. NO: The internal speaker will trigger normally (at the end of bell delay).			
	time).	in trigger normany (a	t the end of ben delay	
02220	Bell Confirmation	No	Yes/No	
	YES: A confirmed alarm trig	gers the external bell		
	Note			
	A confirmed alarm actually	a. a	lay time, causing the	
	NO: The external bell will tr	3	e end of hell delay time)	
12220		No	Yes/No	
	Error Speaker Time Out	NO	Tes/No	
	This option determines the	duration of the alarm	that is generated via the	
	internal sounders (speakers)			
	Exit", and it is not closed on YES: The "EXIT ERROR" als			
	bell timeout setting.	arm in the internal sp	eaker matches the diarm	
	NO: The "EXIT ERROR" ala	arm in the internal spe	eaker sounds	
	continuously until user rese	t.		
12222	Tamper Report	No	Yes/No	
	This option determines if a t	amper signal will be	reported to the	
	monitoring station while the			
	YES: A tamper signal will al			
	NO : A tamper signal will not the unset period.	ot be reported to the n	nonitoring station during	
	Note			
	A tamper restore report to the monitoring station is always reported			
	regardless of the "TAMPER REP" definition			
12228	AC Trouble Arm	Yes	Yes/No	
	YES: The system can be arm		e detected in the main	
	panel, power supply modul		l.1.	
	NO: The system cannot be armed with an AC trouble.			



Quick keys	Parameter	Default	Range	
02224	Strobe Arm	No	Yes/No	
	This option allows the strobe (internal or external activated by a utility output - Utility Output → Follow Partition → Strobe Trigger) to confirm the final arming of the system. YES: A ten-second strobe indication will occur after the system is armed. NO: There will be no strobe indication when the system is armed.			
02225	Final Night	Yes	Yes/No	
①②② ②⑥	This option determines the behavior of a final exit zone when the system is armed at partial (Stay) arming. YES: There is no need to open and close the door if the door is closed, in order to arm the system in partial (Stay) arming. The zone behaves like a regular "EXIT(OP)" zone type. NO: There will be no change in the operation of a final exit zone in partial (Stay) arming. Stay Strobe No Yes/No			
	YES: For partial (Stay) or group arming, a squawk indication will be made by the strobe activated by an output (Utility Output →Follow Partition →Strobe Trigger) at the end of the exit delay time. NO: For partial (Stay) arming or group arming, no indication will be made by the strobe at the end of the exit delay time.			
02227	Blank display	No	Yes/No	
	YES: Two minutes after the last keypad operation, the display will appear blank. After pressing any key, an "Enter Code" message will be displayed. The user should enter his code or pass his proximity tag. The display returns to the normal operation mode. Select this option for keypads that can be viewed from outside the protected area to disguise the system status. NO: The keypad display operates normally			



System \rightarrow Controls \rightarrow Communication

Quick keys	Parameter	Default	Range			
123	Communication					
	This section refers to controls	This section refers to controls of the systems communication capabilities.				
123 1	Monitoring Station Enable	Yes	Yes/No			
	YES: Enables communication with the monitoring station to report alarms, trouble, and supervisory events. NO: Disables communication with the monitoring station. Select NO for installations that are not monitored by a monitoring station.					
1232	Follow Me Enable	Yes	Yes/No			
	If both the monitoring station report and the FM report are defined, the system will first call the monitoring station phones and then the FM destinations. Note If FM is enabled and no voice module is installed then "beeps" will be ser instead of messages. NO: Disables Follow-Me communication.					
1238	Configuration Software Enable	Yes	Yes/No			
	YES: Enables communication between the alarm company (installer) and the ProSYS Plus main panel using the Configuration Software. This enables modifying an installation's configuration, obtaining status information, and issuing main panel commands, all from a remote location. NO: Disables communication, as detailed above.					
0234	Cloud Enable	Yes	Yes/No			
L	YES: Enables communication between the ProSYS Plus system and the Cloud. NO: Disables Cloud communication.					



$\textbf{System} \rightarrow \textbf{Controls} \rightarrow \textbf{EN 50131}$

Quick keys	Parameter	Default	Range			
124	EN 50131					
	This section refers to controls	This section refers to controls that apply to EN 50131 approvals.				
1240	Authorize Installer	No	Yes/No			
	This option limits the installer and sub-installer authorization to access the programming menu. YES: A Grand Master code is required to authorize the installer to enter the programming mode for one hour. NO: The installer does not need an authorization code.					
1242	Override Trouble	Yes	Yes/No			
	system. YES: The system will arm even if there is a trouble in the system. NO: When the user starts the arming process and there is a system-trouble, the user must confirm that he is aware of all troubles before continuing with the arming process. The user needs to scroll the list of troubles. At the end of the list the following question will appear: "Override Trouble?" Toggle to Y (yes) and then press OK.					
1248	Restore Alarm	No	Yes/No			
	YES: The user must confirm that s/he is aware that alarm occurred in the system before rearming the system. The system/partition will be in "Not Ready" status until it confirms the alarm. The user needs to confirm the alarm by going to View → Alarm Memory NO: The user does not need to confirm the alarm before rearming the system.					
1244	Mandatory Event Log	No	Yes/No			
	YES: Only mandatory events (specified in the EN standard) will be displayed in the event log. NO: All the events will be displayed in the event log.					



Quick keys	Parameter	Default	Range			
1246	Restore Troubles	Yes	Yes/No			
	For above Grade 2, the system control bit "Restore Troubles" shall be defined as YES .					
	· ·	YES: A System Trouble condition must be acknowledged by the user. NO: A System Trouble condition will reset automatically when clear.				
0246	Exit Alarm	Yes	Yes/No			
	YES: A violated zone outside the exit route will generate an alarm during the exit time. A report to the monitoring station for arming the system is sent at the beginning of the arming procedure. NO: A violated zone outside the exit route that remains open at the end of the exit timer will cause a system fail-to-set condition. A report to the monitoring station is sent at the end of a successful arming procedure.					
0247	Entry Alarm	No	Yes/No			
	This feature is used to reduce false alarm reports to the monitoring station. YES : The report to the monitoring station and the siren alarm will be delayed for 30 seconds or until the end of the predefined entry delay (the shorter time of the two) following a violation of a zone outside the entry route. NO : A violated zone outside the entry route will generate an alarm during the entry time and a report will be sent to the monitoring station.					
1248	20 Minutes Signal	No	Yes/No			
	YES: Prior to arming the system, the system will check for zones that did not send a signal for more than 20 minutes. These zones will be regarded as not ready. A partition assigned with a not ready zone cannot be armed. NO: Prior to arming, the system will not check whether a zone did not send a signal for more than 20 minutes.					
1249	Attenuation	No	Yes/No			
	YES: The ProSYS Plus device will be attenuated by six dB during the communication test. NO: The ProSYS Plus device works in normal operation mode.					



System → Controls → PD6662:2010 (BS 8243:2010)

Quick keys	Parameter	Default	Range			
025	PD6662:2010 Prog. (BS 8243:2010 Prog.)					
	on <i>page 100),</i> then the configuence can be set as needed. NOTE:	If the PD6662:2010 (BS 8243:2010) standard has been selected (see procedure on <i>page 100</i>), then the configurable controls for this standard (listed below) can be set as needed. NOTE: For the non-configurable "Hold-Up Alarm Confirmation" parameter, see <i>page 100</i> .				
0250	Bypass Exit/Entry	Yes	Yes/No			
	YES: It is possible for the use: NO: An Exit/Entry zone cann	• •	try zone.			
1252	Entry Disable	No	Yes/No			
	-	YES: Alarm confirmation process will be disabled when entry time starts. NO: Alarm confirmation process will start when the entry time starts.				
125 6	Route Disable	No	Yes/No			
	YES: The panel disables the entry route zones (EX/EN, EX (OP)/EN, followers and Final Exit) from participating in the alarm confirmation process when the entry time starts. Note Sequential confirmation can still be established from two confirmed zones, located off the entry route.					
	NO: The entry route zones w process when the entry time s		larm confirmation			
0254	Installer Confirmation	No	Yes/No			
	YES: An installer confirmation is required in order to reset the system after a confirmed alarm. The system cannot be armed until an installer reset confirmation is performed. The reset can be done by entering the Anti Code or entering the installation mode or by performing an "Installer reset" from the keypad. NO: Any means can be used to arm or disarm the system (keypad, remote phone operation etc.).					



Quick keys	Parameter	Default	Range		
125 5	Key Switch Lock	No	Yes/No		
	YES: Only a latched key switch zone can arm or disarm the system.				
	Note				
	When the system has more th	an 1 zone defined as l	latch key switch the arm /		
	disarm operation will occur of	nly after all these zon	es are armed or disarmed		
	NO: Any means can be used to arm or disarm the system (keypad, remote				
1	phone operation, etc.).				
①②⑤ ⑥	Entry Disarm	No	Yes/No		
	Determines if the system's dis	sarming depends on t	he entry time.		
	YES: Only a remote control ca	n disarm the system	during the entry time.		
	Note				
	System can't be disarmed with	h a remote control wh	nile the system is armed.		
	NO: System can be disarmed during any time using any disarming device.				
1257	Proximity Disarm	No	Yes/No		
	Determines if the system can be disarmed using a Proximity tag.				
	YES: The system can be disarmed using a Proximity tag.				
	NO: The system cannot be disarmed using a Proximity tag.				

$\textbf{System} \rightarrow \textbf{Controls} \rightarrow \textbf{CP-01}$

Quick keys	Parameter	Default	Range
126	CP-01		
	This section refers to controls	that apply to comply	with SIA CP 01.
1260	Exit Restart	No	Yes/No
	This parameter is used to define if an exit time shall restart one additional time while an entry/exit zone is tripped twice during exit time. YES: Exit time will restart for one time only when an entry/exit zone is tripped during exit time. NO: Exit time will not be affected if an entry/exit zone is tripped during exit time.		
1262	Auto Stay	No	Yes/No
	This parameter is used to define the system's arming mode when using a keypad and no exit/entry zone is tripped during exit mode. YES: If no exit/entry zone is tripped during exit time the system will be armed in partial (Stay) arming mode. NO: If no exit/entry zone is tripped during exit time the system will be armed in full (Away) arming mode.		



System → Controls → Device

	Controls 7 Device					
Quick keys	Parameter	Default	Range			
127	Device					
	This section refers to control	This section refers to controls that apply to bus devices				
①②⑦ 0	Anti Mask = Tamper	No	Yes/No			
	Used to determine the opera	ition of anti-masl	king detection in a bus zone.			
	YES: Anti mask violation wi	ES: Anti mask violation will activate tamper alarm.				
	NO: Anti mask violation wil	ll be regarded as	trouble event.			
10072	Proximity Anti Mask	No	Yes/No			
	=Tamper					
	indicated by the microwave YES : Proximity anti mask de	Used to determine the operation of the proximity anti masking detection indicated by the microwave channel in the WatchOUT DT detector. YES: Proximity anti mask detection will activate the tamper alarm. NO: Proximity anti mask detection will be regarded as a fault event.				
	Notes		O			
	 The Proximity Anti Mask operates for approximately 2.2 seconds when the detector is approached in close proximity. Ensure that Proximity Anti Mask has been enabled when configuring the WatchOUT DT bus zone parameters. 					
1278	Audible Proximity	No	Yes/No			
	Tamper					
	This parameter relates to the	bus siren.				
	YES: A proximity anti appro	ach violation wi	ll activate the siren.			
	NO: A proximity anti appro	ach violation wil	l not activate the siren and will			
	be regarded as trouble by th	e system.				
①②⑦ 4	Siren Auxiliary =	No	Yes/No			
	Tamper					
	This parameter relates to the	bus siren.				
	YES: A siren auxiliary troub	le will be regarde	ed as tamper alarm by the			
	system.					
	NO: A siren auxiliary troubl	e will be regarde	d as trouble by the system.			
10006	RF Wake-Up	No	Yes/No			
	Toggle between Y (yes) and N (no) to define whether the sys					
up the 2-way wireless Slim keypad during exit/entry time			angentry times, or when failing			
	to arm the system. YES: The system wakes up the keypad.					
		NO: The system cannot wake up a 2-way keypad (this saves battery life).				



Quick keys	Parameter	Default	Range		
0277	Keyfob Instant Arm	No	Yes/No		
	YES: Away arming from any 2-way remote control will be instant. NO: Away arming from any 2-way remote control will be delayed, following exit delay 1.				
0278	Keyfob Instant Stay	No	Yes/No		
		YES: Stay arming from any 2-way remote control will be instant. NO: Stay arming from any 2-way remote control will be delayed, following exit delay 1.			
0279	Disarm using Code	No	Yes/No		
	Defines if a PIN code is required to perform the disarm operation while using any of the 2-way remote controls.				

①3 Labels

Define global system and partition labels.

System → Labels

Quick keys	Parameter	Default	Range	
030	System	Security System	Any 16 characters	
	Edit the global system la	bel		
032	Partitions (01-32)	Partition 01 – 32	Any 16 characters	
	Edit the label of the parti	Edit the label of the partitions		

① ④ Sounds

Define the following system sound parameters:

- Tamper
- Speaker Volume
- Wireless Lost Sound



System → Sounds → Tamper

Quick keys	Parameter	Default	Range	
040	Tamper Sound			
	Sets the sound(s) produced be expansion module, as follow Silent — Produces no sour Bell Only (external siren) Buzzer Only (keypad piez Bell + Buzzer	s: nd	keypad and/or an	
①④① ❶	During Disarm	Buzzer	1-4	
	Sets the sound produced by tamper violation while the system is disarmed.			
0402	During Arm	Bell only	1-4	
	Set the sound produced by ta	Set the sound produced by tamper violation while the system is armed.		

System → Sounds → Speaker Volume

Quick keys	Parameter	Default	Range	
142	Speaker Volume			
	Sets the volume of internal sounder (speaker) connected to the Bells/LS (+ and — terminals) according to different system modes. Volume range is between 0 (silent) and 9 (maximum). After changing the volume, sound will be emitted by the internal sounder to enable evaluation of the selected volume level.			
1420	Trouble	9	0-9	
	Determines the volume of the internal sounder beeps while there is trouble in the system.			
1422	Chime	9	0-9	
	Determines volume of interrused as an audible indication			
1428	Exit/Entry	9	0-9	
	Determines the volume of the beeps sounded from the internal sounder during the Exit/Entry times.			
1424	Alarm	9	0-9	
	Determines the volume of the beeps sounded from the internal sounder during an alarm.			



System → Sounds → Wireless Lost Sound

Quick keys	Parameter	Default	Range	
043	Wireless Lost Sound			
	Sets the behavior of the soun sound can be activated as in As trouble As tamper			
	Determines the internal sounder volume during an alarm			

①⑤ Settings

Set the System Settings parameters as needed.

System → Settings

Quick keys	Parameter	Default	Range		
150	DIP 2 Enable/Disable	Enable	Enable/Disable		
	enabled (ON position) or di Enabled: When power to th SW1-2 is in ON position, the will return to the original, fa the Installer Programming s Setting scan for bus devices.	Used to determine whether the ProSYS Plus default DIP switch SW1-2 is enabled (ON position) or disabled (OFF position). Enabled: When power to the main panel is switched off and then on and SW1-2 is in ON position, the installer, sub-installer and Grand-Master codes will return to the original, factory default values. In this case, after entering the Installer Programming section, the system automatically is at the Auto Setting scan for bus devices. Toggle to enable/disable the option.			
052	Default Panel				
	Restores programming opti-	ons to factory defaults.			
058	Erase Wireless				
	Erases wireless devices without changing the system current programmed parameters. Select the wireless device to be erased.				
	Note This entry appears only if a wireless device is allocated in the system.				



Quick keys	Parameter	Default	Range
054	Standard		
	Sets the panel programming options in compliance with the selected standard.		
0540	EN 50131 (G2)		
	For EN 50131 (G2), see page	92.	
1542	PD6662:2010 (BS 8243:2010)		

By selecting this standard:

- <u>Configurable parameters</u> applicable for this standard can be set as needed (see *page 94*).
- Parameters for the HU (Hold-Up) Alarm Confirmation are <u>automatically set</u>, and any respective outputs are activated accordingly (see HU Confirmation Al. on page 142).

NOTE: See below for HU Alarm Confirmation description and the required action for non-reinstated HU devices.

HU Alarm Confirmation Description:

Part of the BS 8243:2010 standard, "HU alarm confirmation" automatically sends a "confirmed" alarm notification to the monitoring station when at least 2 separate, sequential HU (panic) alarms occur during the "HU confirmation time period" – which is fixed at 8 hours.

The alarms must be triggered from different HU devices – for example, 2 panic alarms that are each triggered from a different keypad, or that are triggered from 1 keypad and 1 keyfob (the keyfob must be installer-configured to be used for panic alarms)

At the expiration of the HU confirmation time period if only one HU (panic) alarm has occurred – but not the second one that is required for confirmation, then the system is automatically reinstated (restored to a normal state).

At the end of the HU confirmation time period, all non-reinstated HU devices are automatically bypassed – which will appear in the system's event log, the monitoring station will be notified, and there will be an indication at the panel to notify the user.

IMPORTANT: As these non-reinstated (now bypassed) devices are still in an alarm state, perform a system restore per the system's definition.



Quick keys	Parameter	Default	Range		
1545	CP01				
	For CP01, see page 95				
0944	EN 50131 (G3)				
	For EN 50131 (G3), see page	92			
(1)(5)(5)	Customer				
	Sets the panel programming options in compliance with the selected customer code. Each customer has its predefined parameters.				
	Note Selecting a customer that is different than the one in use will automatically default the panel				
056	Language				
	Sets the system language (e-mail, SMS and keypad interface language) • Text - Change the interface keypad language • Voice - Change the voice language (this option is only available if a voice module is assigned to the system)				
05 7	Licenses				
	 View Licenses: To view the total number of enabled zone licenses. By default, 64 zones are enabled in the system. D/L Licenses: To update the system with any additional zone licenses that were purchased (the panel must be connected to the Cloud to view). 				
058	Partition Qty	8	08-32		
	Set the Partition Quantity parameter to define the number of partitions allocated to the system (up to 32). Press OK to view the number of partitions. Default is 08 (meaning up to 8				
	To change number of partitions, enter the number of partitions over the number that currently displays.				



106 Automatic Clock

Set the Automatic Clock parameters to retrieve automatic time updates (NTP or Daytime) through IP or GPRS.

System → Automatic Clock

Quick keys	Parameter	Default	Range
000	Server	Daytime	
	Select the internet time prot NTP (Network Time Pro DAYTIME		
062	Host	99.150.184.201	
	The IP address or server name.		
068	Port	00013	
	The NTP server port.		
064	Time Zone (GMT)		
	Scroll through the available	selections (GMT-12:00 - GM	MT+13:00).

①⑦ Service Information

Enter the service information details of the monitoring station.

System → Service Information

Quick keys	Parameter	Default	Range	
①⑦ ❶	Name	Any 16 characters		
	Enables you to insert and/or edit the name of the monitoring station from where service may be obtained.			
002	Phone	Any 16 characters		
	Enables you to insert and/or edit the service phone number.			



①® Firmware Update

Set parameters when updating the system firmware.

Note

The firmware update menu option series is visible only if the IP or GSM module is installed.

System → Firmware Update

Quick keys	Parameter	Default	Range	
①⑧❶	Server IP	firmware.riscogroup.com		
	Enter the IP address of the relocated.	outer/gateway where the upgrade file is		
082	Server Port	80		
	Enter the port on the router/	Enter the port on the router/gateway where the upgrade file is located		
186	File Name	CMD.TXT (case sensitive)		
	Enter the firmware update file name. NOTE: Please contact Customer Support services for the file name parameters			
084	Download File			
	Select the communication path for the upgrade. • Via IP • Via GPRS			

2 Zones

Configure the following "basic" zone parameters for all types of zones. Each zone can be defined as a wired zone, a wireless zones or a bus zone. The attributes for each zone vary according to the zone's type. The following sub-menus are available:

- Parameters
- Testing
- Cross Zones
- Alarm Confirm



20 Parameters

Configure the **basic parameters** for all zones types by the following method(s):

- One-By-One: Define all the relevant parameters for one zone at a time
- **By Category:** Define a specific parameter accordingly for multiple zones (as you go from one zone to another, scrolling through all zones in the system)
- **Resistance:** If required, define the zone's termination resistance

Note

Advanced parameters are also available for bus zones and wireless zones – see *Step 6: Advanced Zone Configuration for Bus Zones and Wireless Zones, page 68.*

One-By-One

Zones → Parameters → One-By-One

Quick keys	Parameter	Default	Range
200	One-By-One		
	See Defining Zone Parameters using the "One-By-One" Option, page 65.		

By Category

Zones → Parameters → By Category

Quick keys	Parameter	Default	Range		
202	By Category				
	See <i>Defining Zone Parameters using the "By Category" Option, page 66</i> for an explanation, and see below for defining the parameters:				
	LabelZone Partition (and Group)				
	3 Туре				
	Sound				
	5 Termination				
	6 Loop Response				
	⊘ Advanced				



Zones → Parameters → By Category → Label

Quick keys	Parameter	Default	Range
2020	Label		
	The label identifies the zone in descriptive label over the defa	J 1	haracters. Type a

Zones → Parameters → By Category → Zone Partition (and Group)

Zones → Para	ones → Parameters → By Category → Zone Partition (and Group)					
Quick keys	Parameter	Default	Range			
202 2 zzz	Zone Partition					
	 Use scroll keys and enter a zone number (ZZZ), then press OK. If a zone displays with "(::)" it means that zone has not yet been allocated. After you have selected an allocated zone, enter the number of the partition and then press OK. If you had defined more than 8 (default) partitions to be available in the system (see the parameters for <i>Partition Qty, page 101</i>), You will need to scroll to get to the partition that you want the zone to be in. As there are 32 partitions maximum, the available partitions are in blocks of partitions. When you scroll to the appropriate block, enter the partition number; it will display as P=## (whereas ## is the partition). Press OK. 					
②①② ② ZZZ ABCD	Group					
	A group is a specific area (zone) that can be armed within a specific partition. There are up to 4 groups possible per partition (groups A—D).					
	 Select zone partition (see procedure directly above) For each applicable group letter (A—D), toggle to select it (Y), or to clear it. Press OK. 					



Zones → Parameters → By Category → Type

Quick keys	Parameter	Default		Range	
2128	Type				
	The Zone Type menu contains parameters that enable you to program the zone type for any zone. 1) Select the zone (ZZZ) and then press OK . 2) Then scroll to select the zone type (35 types – see below), and press OK Note Zones for partial arming ("Stay" arming) must be defined as Interior type Available options: ① ②: Interior+Exit/Entry 1, ① ③: Interior+Exit/Entry 2, ① ②: Interior+Instant				
Quick keys	• Interior+Exit(OP)/E	Default	Range		
②①②③ZZZ ⊙⊙	Not Used				
	Disables a zone. All unus	ed zones should be giver	n this desig	gnation	
②①②③ZZZ ○①	Exit/Entry 1				
	intrusion alarm during th the end the delay expires To start an arming proces	oors. Violated Exit/Entry zones do not cause an g the Exit/Entry delay. If the zone is not secured ires it will trigger an intrusion alarm. ocess, this zone should be secured. When systems the entry delay time (see ①①②①).			
2023ZZZ 02	Exit/Entry 2			Arm/Stay	
	Same as above, except that	t the Exit/Entry 2 time p	eriod appl	ies	
②①②③ZZZ ②⑤	Exit (OP)/Entry 1				
	Used for an exit/entry doc This zone behaves as desc above, except that, if fault prevent arming. To avoid an intrusion alar Exit Delay period.	cribed in the Exit/Entry 1 red when the system is b	paramete	d, it does not	



Quick keys	Parameter	Default		Range	
2123zzz 04	Exit (OP)/Entry 2				
	Same as above , except th	at the Exit (Op)/Entry 2 t	time period	l applies.	
2123ZZZ 05	Entry Follower				
	Usually assigned to motion detectors and to interior doors protecting the area between the entry door and the keypad. This zone(s) causes an immediate intrusion alarm when violated unless an Exit/Entry zone was violated first. In this case, Entry Follower zone(s) will remain bypassed until the end of the Entry Delay period.				
2023zzz 06	Instant	e end of the Entry Delay	periou.		
	Usually intended for non-exit/entry doors, window protection, shock detection, and motion detectors. Causes an immediate intrusion alarm if violated after the system is armed or during the Exit Delay time period. When Auto Arm and Pre-Warning are defined, the instant zone will be armed at the end of the Pre-Warning time period.				
②①②③ZZZ ②⑦	I+ Exit/Entry 1 (Interior+ Exit/Entry 1)				
	 Used for Exit/Entry doors, as follows: If the system is armed in the Away (full) arming mode, the zone(s) provide a delay (specified by Exit/Entry 1) allowing entry and exit to-and-from the armed premises. If the system is armed in the Stay mode, the zone is bypassed. 				
	Important For greater security when arming in the partial (Stay) arming mode, it possible to eliminate the Entry Delay period associated with any zone classified as Exit/Entry Delay 1 by pressing the key twice, one aft another. In effect, this makes it an instantly-armed zone.				
2023ZZZ	I + Exit/Entry 2	`			
08	(Interior + Exit/Entry 2) Same as the I+Exit/Entry 1 parameter, described above, but the Exit/Entry 2 time period is applicable.				



Quick keys	Parameter	Default	Range	
②①②③ZZZ ⊙ 9	I + Exit(OP)/Entry 1 Interior + Exit(OP)/Ent	ry 1)		
	Used for an exit/entry door that, for convenience, may be kept open when the system is being armed, as follows: In full (Away) arming mode behaves as an Exit (Op)/Entry 1 zone (see ②①ZZZO⑤ above). In partial (Stay) arming mode, the zone will be bypassed.			
②①②③ZZZ ○①	I + Exit(OP)/Entry 2 Interior + Exit(OP)/Entr			
	Used for an exit/entry door that, for convenience, may be kept open when the system is being armed, as follows: • In full (Away) arming mode behaves as an Exit (Op)/Entry 2 zone (see ②①ZZZO ② above). • In partial (Stay) arming mode, the zone will be bypassed.			
2023ZZZ 000	I+ Entry Follow (Interior + Entry Follov	ver)		
	Generally used for motion detectors and/or interior doors (for example, foyer), which would have to be violated after entry in order to disarm the system, as follows: In full (Away) arming mode behaves as an Entry Follower zone. (see ②①ZZZ②⑤ above) In partial (Stay) arming mode, the zone will be bypassed.			
2023ZZZ 002	I + Instant (Interior + In	nstant)		
	Usually intended for non-exit/entry doors, window protection, shock detection and motion detectors. In full (Away) arming) mode behaves as an intruder (instant) zone. In partial (Stay) arming mode, the zone is bypassed.			
②①②③ZZZ ○①③	UO Trigger			
	For a device or zone, which if violated at any time triggers a previously programmed utility output, and is capable of activating an external indicator, relay, appliance, and so on.			



Quick keys	Parameter	Default		Range
2123zzz 014	Day		Arm	
	 as an intruder zone. A or during the exit dela alarm. With the system disar user by causing the PC rapidly. This directs the Optionally, such a vio 	ed to alert the system use	er if a viola night), as f or Away), fter the sys immediate zone attem ll keypads m's trouble o the monit	ation occurs follows: the zone acts tem is armed e intrusion pts to alert the to flash e indications. toring station
②①②③ZZZ ○①⑤	24 Hours			
	Usually assigned to protect non-movable glass, fixed skylights, and cabinets (possibly) for shock detection systems. A violation of such a zone causes an instant intrusion alarm, regardless of the system's state			
2123ZZZ 016	Fire			
	 For smoke or other types of fire detectors. This option can also be used for manually-triggered panic buttons or pull stations (if permitted), as follows: If violated, it causes an immediate fire alarm, and the Fire/ indicator is lit (steady). A fault in the wiring (wire open) to any fire zone causes a Fire Trouble signal (a rapid flashing of the keypads' Fire / indicator). A short in the wires will cause an immediate alarm. 			
2023zzz 007	Panic			
	Used for external panic but If violated, an immediate defined as silent or audibluthe system's state, and a palarm display will not appanic alarm is sounded, re	panic alarm is sounded (e panic system control is anic report is sent to the bear on the keypads. If v	(if the zone s enabled), monitorin iolated, an	e sound is not regardless of ag station. An



Quick keys	Parameter	Default	Range	
2023ZZZ 008	Special			
	For external auxiliary emergency alert buttons and wireless auxiliary emergency transmitters. If violated, an immediate auxiliary emergency alarm is sounded, regardless of the system's state and a report is sent to the monitoring station.			
2023ZZZ 009	Key Switch			
	Used to arm/disarm the system. Connects an external momentary action key switch to any zone terminals given this designation.			
②①②③ZZZ ②②②	Final Exit			
	Zones of this type must be the last detector to be activated on exit or the first detector to be activated on entry. When arming the system, the related partition arms 10 seconds after this zone is closed, or opened and then closed. After triggered once the zone acts as an exit (open)/entry 1 zone.			
2023ZZZ 020	Latch Key Switch			
	Connect an external SPST latched (non-momentary) key switch to any zone terminals given this designation and operate the keyswitch, as follows: • After arming one or more partitions using the key switch and then disarming using the keypad, the related partitions will be disarmed. In order to arm the partition using the key switch again, turn the key to the disarm position and then to the arm position.			
	If a key switch latch is assigned to more than one partition and one of the partitions is armed by using the keypad (the key switch stays in the disarm position), then:			
	 When changing the position of the key switch to the arm position, all the disarmed partitions, which belong to this key switch, will be armed. When turning the key switch to the disarm position, all the partitions will be disarmed. 			



Quick keys	Parameter	Default	Range	
②①②③ZZZ ②②②	Entry Follower + Stay		All	
	Assigned to motion detectors and to interior doors protecting the area between the entry door and the keypad, as follows: • In partial (Stay) arming mode, a zone(s) given this designation behaves			
	like an Exit/Entry zone and is subject to the Entry and Exit Delay time periods specified under Exit/Entry Delay 1. See <i>Exit/Entry Delay 1</i> , above (②①②③ZZZ②①) and ①①⑩①.			
	• In full (Away) arming mode, a zone(s) given this designation behaves like an Entry Follower Zone and causes an immediate intrusion alarm when violated unless an Exit/Entry zone was violated first.			
_	• If so, an Entry Follower + Stay zone(s) remains bypassed until the end of the Entry Delay period.			
②①②③ZZZ ②②③	Key Switch Delay			
	Used to apply the Exit/Entry Delay 1 parameter to the momentary key switch operation. See <i>Exit/Entry Delay 1</i> , above ($2 \cdot 2 \cdot$			
②①②③ZZZ ②②④	Latch Key Switch Dela	у		
	Used to apply the Exit/Enoperation. See <i>Exit/Entry 1</i> ① ① ② ① .		•	
②①②③ZZZ ②②⑤	Tamper			
	For tamper detection. This zone operates the same as 24 hours zone, but it has a special reporting code.			
	Note For this zone type the zone sound is determined according to the Tamper Sound defined under 1) System \rightarrow 4) Sound \rightarrow 1) Tamper			
②①②③ZZZ ②②③	Technical			
	This zone operates the same as 24 hours zone, its report code should be manually set according to the relevant detector connected to the zone.			



Quick keys	Parameter D	efault	Range		
2023zzz 027	Water				
		For flood or other types of water detectors. This zone operates the same as 24 hours zone, but it has a special flood report code.			
2023ZZZ 028	Gas				
	For Gas (natural gas) leak de hours zone, but it has a spec	-	rates the same as 24		
2023ZZZ 029	СО				
	For CO (Carbon Monoxide) 24 hours zone, but it has a sp	_	=		
2123zzz 080	Exit Term				
	(OP)/Entry zone. When triggered (after armin the door, arming the system.	When triggered (after arming the system and closing the door or opening he door, arming the system, and closing the door), the system's Exit Delay ime period will be shortened to 3 seconds.			
2123zzz 080	High Temperature				
	For detector temperature (ho hours zone, but it has a spec		operates the same as 24		
2023zzz 032	Low Temperature				
	For detector temperature (hot or cold). This zone operates the same as 24 hours zone, but it has a special report code.				
②①②③ZZZ ②③③					
	This zone is mainly used in a recorded in the event log. It No alarm is triggered. When using this zone you sl (usually the auxiliary contactamper wiring to the housin	can also be reported to hould connect the alar et of a door) to an exte	o the monitoring station. m wiring of this zone		



Quick keys	Parameter	Default		Range
2023ZZZ 084	Key Switch Arm			
	This zone is used by finan and banks to control the a entrance. Use this zone for instant a allocated. This zone cannot be some cannot be som	rming of the vault door rming of the partition in	or treasury which the	department
2123zzz 085	Key Switch Delayed A	rm		
	Same as the Key Switch A delayed following exit del		t the armin	ng will be

Zones → Parameters → By Category → Sound

Quick keys	Parameter	Default	Range		
2124	Sound				
	This menu enables you to program the sound produced when a systems zone triggers and alarm. Reporting to the central station is not affected by the option of this menu. The following sound can be selected:				
	Silent: Produces no sound				
	Bell Only: Activates the bell sounders for the duration of the Bell Timeout period, or until a User Code is entered				
	Buzzer Only: Activates each keypad's internal piezo buzzer				
	Bell + Buzzer: Activates the bell sounders and the keypads' buzzers simultaneously				
	• Door Chime : The Door Chime parameter is used as an audible sounder to indicate the violation of a zone(s), as follows:				
	 If the system is disarmed, the system's keypad buzzers make three momentary sounds whenever the zone is violated. 				
	 If the system is armed, only the bell sounders produce the alarm. A different sound can be defined according to the system status as follows 				
2124 0	At Arm				
	Set the sound produced system is fully (Away)	d when a system's zone triş armed.	ggers an alarm while the		



Quick keys	Parameter	Default	Range
20242	At Stay		
	Set the sound produced when a system's zone triggers an alarm while the system is partially (Stay) armed.		
20248	At Disarm		
	Set the sound produced when a system's zone triggers an alarm while the system is disarmed.		

Zones → Parameters → By Category → Termination

Quick keys	Parameter	Default	Range		
202 6	Termination				
	The Termination menu enables you to program the connection type used for each of the system's zones. The actual (physical) termination for each zone must comply with that selected in the zone termination menu.				
	1. Select the zone (ZZZ) and then press OK .				
	2. Then scroll to select the zone termination resistance type (see below), and press OK .				
202500	N/C				
	Uses normally-closed contacts and no terminating End-of-Line Resistance				
202502	EOL				
	Uses normally-closed (NC) contacts in a zone terminated by End-of-Line Resistance.				
202508	DEOL				
	Uses normally-closed (NC) contacts in a zone terminated by Double End- of-Line Resistance to distinguish between alarm and tamper conditions on the same zone.				
202504	N/O				
	Uses normally-open contacts	s and no terminating Er	nd-of-Line Resistance.		
202506	TEOL				
	Uses normally-closed (NC) contacts in a zone terminated by Triple End- of-Line Resistance to distinguish between alarm, tamper and anti-mask conditions on the same zone.				



Zones → Parameters → By Category → Loop Response

Quick keys	Parameter	Default	Range		
2026	Loop Response				
	The Loop Response menu enables you to set the different times for which a zone violation must exist before the zone will trigger an alarm condition.				
	1. Select the zone (ZZZ) and then press OK .				
	2. Then scroll to select a loop	2. Then scroll to select a loop response type:Normal: 400 ms (milliseconds).			
	• Normal: 400 ms (millise				
	2 Long: 1 second				
	3 Fast: 10 ms (milliseconds	❸ Fast : 10 ms (milliseconds).			
	4 Extra Fast: 1 ms (millisecond). This loop response is usually used for shutters or other devices that require very quick responses				
	3 Press OK				

Zones → Parameters → By Category → Advanced

The following Advanced zone parameters are available for configuration:

- Advanced
- Bus Zone Parameters

 Bus Zone Parameters Wireless Zone Configuration 					
Quick keys	Parameter	Default	Range		
2027	Advanced				
2027 0	Forced arming				
	This option enables or disables the use of forced arming for each of the system's zones, as follows:				
	 If forced arming is enabled for a particular zone, it allows the system to be armed even though this zone is faulty. When a zone(s) enabled for forced arming is faulted, the red LED blinks during disarm period. 				
	After arming, all zones of	enabled for forced a	rming are bypassed at the		

among the system's armed zones.

end of the exit delay time period (see ①①①① page 78).

If a faulted zone (one enabled for force arming) is secured during the armed period, it will no longer be bypassed and will be included



Quick keys	Parameter	Default	Range		
	1. Select the zone (ZZZ) and then press OK .				
	2. Then scroll to select either DISABLE or ENABLE.				
	3. Press OK.				
20272	Pulse Counter	01	01-15		
	Specifies that the zone will count the number of open and close pulses received. If the zone exceeds the predefined number of pulses, the zone will be tripped and act according to its type definition. After a 25-second timeout the pulse counter is restarted. The pulse length is the currently defined loop response time period (see Zones → Loop Response , page 115). • Select the pulse count, and then press OK .				
20278	Abort Alarm				
	This parameter defines whet station will be immediate or	•	ort to the monitoring		
	1. Select the zone (ZZZ) and	•			
	2. Then scroll to select either:	:			
	● ENABLE: A report to the MS will be delayed according to the Abort Time Delay parameter ⑤②⑥② (Communication → MS → MS Times → Abort Alarm).				
	2 DISABLE: A report to	the MS will be sent i	nmediately		
	3 Press OK.				



Zones → Parameters → By Category → Advanced → Bus Zone Parameters

Quick keys	Parameter	Default	Range
20274	Bus Zone Parameters		

The Bus Zone Parameters menu contains parameters that enable you to program the special parameters of a bus zone. The options are determined according to the bus detector type:

- 1. Select the zone number (ZZZ) and then press OK.
- Then scroll to select from the available BZ parameters to configure (parameters are device-specific – see device list below).
- 3. Set parameters for the following RISCO bus detectors (see the following sections as well as the packaged instructions for details), and when finished, press **OK**.

RISCO Bus Detectors:

- Lunar Grade 3: A dual technology ceiling detector with a mounting height of up to 8.6m (28ft) that incorporates Anti-CloakTM Technology (ACT).
- WatchOUT DT: A dual technology outdoor detector with signal processing based on two Passive Infrared (PRI) channels and two microwave (MW) channels.
- WatchOUT PIR: An outdoor detector with signal processing based on two Passive Infrared correlated channels
- WatchIN DT Grade 3: A dual technology Grade 3 industrial detector
 with signal processing based on two Passive Infrared channels and two
 microwave channels.
- **iWISE QUAD Grade 2**: A motion detector incorporating Quad PIR technology
- iWISE QUAD Grade 3: A motion detector incorporating Anti-Mask and Quad PIR technologies.
- **iWISE DT Grade 3:** A motion detector incorporating both Anti-Mask and Anti-CloakTM Technologies (ACT). It adheres to environmentally friendly guidelines and is available in 15m and 25m models.
- BWare DT Grade 3 A dual technology Grade 3 industrial detector with signal processing based on two Passive Infrared channels and two K-band microwave channels.
- BWare QUAD Grade 3 A motion detector incorporating Anti-Mask and Quad PIR technologies.
- **Seismic:** A detector that monitors the vibration and temperature of a specific surface and will react to all known types of intruder attacks.



Bus Zone: OPR12 (WatchOUT PIR)

Quick keys	Parameter	Default	Range	
21274zzz 0	LEDS	3 LEDS		
	Defines the LEDS operation mode. ① OFF - Disables the LEDS operation. ② RED ONLY - Only the Red LED will operate. This option is highly recommended to avoid the possibility that a burglar will "learn" the detector behavior. ③ 3 LEDS - All 3 LEDs will operate			
20274 zzz 2	PIR Sensitivity	Normal		
	Defines the PIR sensitivity of the detector. • LOW • MEDIUM • NORMAL • HIGH			
21274 zzz 3	Lens Type	Wide Angle		
	Defines the actual lens WIDE ANGLE	s of the detector. BARRIER / LONG RANG	GE	
20274 zzz 4	Auxiliary Relay Mode Off			
	Defines the operation of the auxiliary relay of the detector. OFF - Auxiliary relay is disabled 2 24 Hours - The auxiliary relay will always follow an alarm NIGHT ONLY - The auxiliary relay output will follow an alarm condition only during night time.			
20274 zzz 5	Auxiliary Relay Time	2.2 Seconds	2.2—480 seconds	
	Defines the time duration that the auxiliary relay is activated. 1 2.2 SECONDS 2 2 MINUTES 3 4 MINUTES 4 8 MINUTES			



Bus Zone: iWISE DT Grade 2

Quick Keys	Parameter	Default	Range
20274 zzz 0	LEDS	On	
	Defines the LEDS operation mode. OFF - Disables the LEDS operation.		
	② ON − Enables the L	EDS operation.	T
20274 ZZZ 2	MW (Microwave)	Trimmer	
	Range		
	Defines the microwav		
		3 50% 4 65% 5 85% 6	
		fined by the trimmer settin	ng on the PCB)
21274 ZZZ 3	ACT	No	
	Defines the Anti-Cloal	k™ Technology (ACT) op	eration mode.
	• NO – Disables the		
	2 YES – Enables the	ACT mode	T
21274 ZZZ 4	Automatic	No	
	Microwave Bypass		
		nicrowave (MW) channel	
		identifies trouble in the M	
		ng a problem in the MW c	
	channel is fixed.	lition cannot be establishe	d until the MW
		detector to operate only i	n PIR mode in case of
	MW trouble	detector to operate only i	in i in mode in case of
20274 zzz 5	Green Line	Yes	
	A feature that follows	environmental guidelines	by avoiding surplus
		defines the activation of tl	
	while the system is dis		
		ature is disabled. MW is c	onstantly activated.
	2 YES - Green Line feature is activated.		
21274 zzz 6	Self Test	Remote	
	Used to test the detect	ion technologies. In the ev	vent of a failed test, a
	self-test trouble is created. • REMOTE (Manual) - The remote self-test is performed by the		
		anually selects the Diagno	
		a the ProSYS Plus User Fu	
) - Once an hour, the detec	
	checks that the detector's channels are functioning properly.		



Bus Zone: (Industrial) Lunar /BWare/iWISE DT Grade 3

Quick Keys	Parameter	Default	Range	
20274 zzz 0	LEDS	On		
	Defines the LEDS operation mode. OFF - Disables the LEDS operation. ON - Enables the LEDS operation.			
20274 zzz 2	MW (Microwave) Range Trimmer			
		(MW) channel range. 250% 465% \$85% 6 efined by the trimmer se		
20274 zzz 3	ACT	No	,	
	Defines the Anti-Cloak™ Technology (ACT) operation mode ■ NO – Disables the ACT mode ■ YES – Enables the ACT mode			
20274 zzz 4	Automatic	No		
	Microwave Bypass			
		crowave channel will be couble in the MW chann	* *	
	NO - While detecting a problem in the MW channel it is not bypassed. Alarm condition cannot be established until the MW channel is fixed.			
	2 YES - Switches the oMW trouble	letector to operate only	in PIR mode in case of	
20274 zzz s	Green Line	Yes		
	A feature that follows environmental guidelines by avoiding surplus emission This feature defines the activation of the microwave channel while the system is disarmed. NO - Green Line feature is disabled. MW is constantly activated. YES - Green Line feature is activated.			
21274 zzz 6	Anti-Mask	Enable		
	Defines the operation of anti-masking detection. ① DISABLE ② ENABLE and behaves according to the settings defined in quick keys ②①②⑦④ZZZ⑦			



Quick Keys	Parameter	Default	Range
21274 zzz 9	Arm/Disarm	No	
	Defines the operation of the anti-masking detection while the detector is armed or disarmed NO – While armed or disarmed, anti-mask behaves according to the setting defined in quick keys ②①②⑦④ZZZ⑥above. YES – While armed, anti-mask is disabled. When detector is disarmed Anti-mask behaves according to the settings defined in quick keys ②①②⑦④ZZZ⑥.		
21274 zzz 8	Self Test	Remote	
	Used to test the detection technologies. In the event of a failed test, a self-test trouble is created • REMOTE (Manual) - The remote self-test is performed by the system when a user manually selects the Diagnostics option from the Maintenance menu via the ProSYS Plus User Functions menu • LOCAL (automatic) - Once an hour, the detector automatically		
	checks that the detector		•

Bus Zone: iWISE QUAD Grade 2

Quick Keys	Parameter	Default	Range
20274 zzz 0	LEDS	On	
	Defines the LEDS operation mode. OFF - Disables the LEDS operation. ON - Enables the LEDS operation		
20274 zzz 2	PIR Sensitivity	High	
	Defines the PIR sensitivity of the detector. • LOW • HIGH		
21274 ZZZ 3	Self Test	Remote	
	Used to test the detection technologies. In the event of a failed test, a self-test trouble is created • REMOTE (Manual) - The remote self-test is performed by the system when a user manually selects the Diagnostics option from the Maintenance menu via the ProSYS Plus User Functions menu • LOCAL (automatic) - Once an hour, the detector automatically checks that the detector's channels are functioning properly		



Bus Zone: iWISE/BWare QUAD Grade 3

Quick Keys	Parameter	Default	Range	
20274 zzz 0	LEDS	On		
	Defines the LEDS operation mode. OFF - Disables the LEDS operation. ON - Enables the LEDS operation.			
20274 zzz 2	PIR Sensitivity High			
	Defines the PIR sensiti • LOW • HIGH	vity of the detector.		
20274 zzz 3	Anti-Mask	Enable		
	Defines the operation of anti-masking detection. ● DISABLE ● ENABLE and behaves according to the settings defined in quick keys ②①②⑦④ZZZ④			
20274 zzz 4	Arm/Disarm	No		
	Defines the operation of the anti-masking detection while the detector is armed or disarmed. •• NO – While armed or disarmed, anti-mask behaves according to the setting defined in quick keys •• Q •• Q •• ZZZ •• above. •• YES – While armed, anti-mask is disabled. When detector is disarmed Anti-mask behaves according to the settings defined in quick keys •• Q •• Q •• ZZZ ••.			
20274 zzz 5	Self Test	Remote		
	Used to test the detection technologies. In the event of a failed test, a self-test trouble is created • REMOTE (Manual) - The remote self-test is performed by the system when a user manually selects the Diagnostics option from the Maintenance menu via the ProSYS Plus User Functions menu • LOCAL (automatic) - Once an hour, the detector automatically			

checks that the detector's channels are functioning properly.



Bus Zone: ODT15 (WatchOUT DT)

Quick Keys	Parameter	Default	Range
21274 zzz 0	LEDS	3 LEDS	
	Defines the LEDS operation mode. ① OFF - Disables the LEDS operation. ② RED ONLY - Only the Red LED will operate. This option is highly recommended to avoid the possibility that a burglar will "Learn" the detector behavior. ③ 3 LEDS - All 3 LEDs will operate.		
21274 zzz 2	PIR Sensitivity	Normal	
	Defines the PIR sensiti LOW MEDIUM	vity of the detector. 3 NORMAL 4 HIG	Н
21274 zzz 3	Microwave Range	Trimmer	
	Defines the microwave channel range. • MINIMUM • 20% • 40% • 60% • 80% • MAXIMUM • TRIMMER (MW is defined by the trimmer setting on the PCB)		
20274 zzz 4	Anti Mask Sensitivity		
	Defines the sensitivity	of the active IR AM: 0	LOW 2 HIGH
20274 zzz 6	Lens Type	Wide Angle	
	Defines the actual lens • WIDE ANGLE • B	of the detector. ARRIER / LONG RANC	GE .
20274 ZZZ 6	Anti-Mask	Enable	
	Defines the operation of DISABLE 2 Enable	of anti-masking detection	on.
21274 zzz 7	Arm/Disarm	No	
	Defines the operation of the LEDs and anti-masking detections while the detector is armed. • Active IR AM and Proximity AM (anti-masking) is enabled. LEDs behave according to the LEDs parameter definition. • YES – Active IR AM and Proximity AM (anti-masking) is disabled LEDs are disabled.		
20274 ZZZ 8	Prox Anti-mask	Enable	
	Defines the operation of proximity anti-masking detection. • DISABLE • ENABLE		



Bus Zone: WatchIN DT Grade 3

Quick Keys	Parameter	Default	Range	
20274 zzz 0	LEDS	3 LEDS		
	Defines the LEDS operation mode. ① OFF - Disables the LEDS operation. ② RED ONLY - Only the Red LED will operate. This option is highly recommended to avoid the possibility that a burglar will "Learn" the detector behavior. ③ 3 LEDS - All 3 LEDs will operate.			
20274 zzz 2	Detection Sensitivity	Normal		
	Defines the sensitivity of the detector (MW + PIR). • LOW • MEDIUM • NORMAL • ACT (Anti-Cloak TM Technology)			
20274 zzz 9	MW (Microwave) Range	Trimmer		
	Defines the microwave channel range. ① MINIMUM ② 25% ③ 50% ④ 65% ⑤ 85% ⑥ MAXIMUM ② TRIMMER (MW is defined by the trimmer setting on the PCB)			
20274 ZZZ 4	Alarm Logic	PIR and Microwave		
	Determine the detector's logic of defining an alarm. • PIR & MW (and Microwave) – An alarm is activated when both PIR and MW channels detect an alarm (AND Logic). • PIR / MW (or Microwave) - An alarm is activated when either PIR or MW channels detect an alarm (OR Logic).			
20274 zzz s	Lens Type	Wide Angle		
	Defines the actual lens of the detector. • WIDE ANGLE • BARRIER / LONG RANGE			
20274 ZZZ 6	Anti-Mask	Enable		
	Defines the operation of anti-masking detection. O DISABLE ENABLE			



Quick Keys	Parameter	Default	Range	
20274 ZZZ 7	Arm/Disarm	No		
	Defines the operation of the LEDs and anti-masking detections while the detector is armed. • Active IR AM and Proximity AM (anti-masking) is enabled. LEDs behave according to the LEDs parameter definition.			
	② YES – Active IR AM and Proximity AM (anti-masking) is disabled LEDs are disabled.			
20274 zzz 8	Green Line	Yes		
	This feature defines the activation of the microwave channel while the system is disarmed. • NO - Green Line feature is disabled. MW is constantly activated. • YES - Green Line feature is enabled. This option conforms to environmentally friendly standards by avoiding surplus emission.			
20274 zzz 9	Sway	No		
	This option allows the recognition and immunity of swaying objects in a known pattern. • NO - Sway is disabled. • YES - Sway is enabled.			

Bus Zone: Seismic

Quick Keys	Parameter	Default	Range	
20274 zzz 0	Sensitivity	Normal		
	Defines the Seismic sensitivity of the detector. • LEVEL 1, • LEVEL 2, • LEVEL 3, • LEVEL 4, • LEVEL 5, • LEVEL 6, • LEVEL 7, • LEVEL 8			
21274 zzz 2	Interference Time	10 Seconds	10, 20, 40, or 80 sec	
	Defines the moving window of time in which the vibration signal is accumulated (integrated). Detection is triggered when the accumulated signal reaches a threshold value. Longer time causes higher detection sensitivity.			
20274 ZZZ 3	Explosion Sensitivity	Low		
	Defines the explosion sensitivity of the detector. • I OW • HIGH			



Quick Keys	Parameter	Default	Range	
20274 zzz 4	Temperature	Off		
	Sensitivity			
	Defines the sensitivity to temperature change. • OFF • ON			
20274 zzz 9	Self Test	Remote		
	Used to test the detection technologies. In the event of a failed test, a self-test trouble is created			
	• REMOTE (Manual) - The remote self-test is performed by the system when a user manually selects the Diagnostics option from the Maintenance menu via the ProSYS Plus User Functions menu			
	2 LOCAL (automatic) - Once an hour, the detector automatically checks that the detector's channels are functioning properly.			
20274 ZZZ 6	LEDS	On		
	Defines the LEDS operation mode. OFF - Disables the LEDS operation. ON - Enables the LEDS operation			

Zones→Parameters→By Category→Advanced→Wireless Zones Configuration

Quick Keys	Parameter	Default	Range	
20275	Wireless Zones	Wireless Zones Configuration		
	you to program the zone. The options of type. For example: • 2-Way Watches signal process and two Micro	The Wireless Zone Parameters menu contains parameters that enable you to program the special parameters of a 1-way or 2-way wireless zone. The options are determined according to the wireless detector type. For example: • 2-Way WatchOUT: A dual technology outdoor detector with signal processing based on two Passive Infrared (PIR) channels and two Microwave (MW) channels. • 2-Way Magnet: Contact detector (x73) – models include shutter and universal		
	•			
	,	1 & 2 Way Shioke detector		
	Also Shock, F Use the instruction	 2-Way PIR Also Shock, Flood, Gas, CO, and Curtain detectors Use the instructions below to set parameters for the relevant wireless zone detector. Also see the instructions packaged with each detector. 		



Wireless Zones: 1-Way and 2-Way Smoke

Quick Keys	Parameter	Default	Range	
2027\$ZZZ 0	Serial No.			
	The identifying 11-dig	it number on the detec	tor sticker	
2027\$ZZZ2	Control			
2027\$ZZZ2 0	Supervision	No	Yes/No	
	Determines if this zone will be supervised by the system expander according to the time defined under the timer RX Supervision (see <i>RX Supervise</i> , page 79).			
2027SZZZ2 2	LED Enable Yes Yes/No			
	Defines whether or no	t the LEDS operation m	node is enabled	
②①②⑦⑤ZZZ ⑤ (2-Way Smoke Only)	Operation Mode Smoke & Heat S/H/S&H			
	Defines the detector operation mode. • SMOKE • HEAT • SMOKE & HEAT			

Wireless Zones: 2-Way PIR, WatchOUT and Wireless IR Beam

Quick Keys	Parameter	Default	Range	
2027\$ZZZ 0	Serial No.			
	The identifying 11-digi	it number on the detect	or sticker	
2027\$ZZZ2	Control			
2027\$ZZZ2 0	Supervision	No	Yes/No	
	Determines if this zone will be supervised by the system expander according to the time defined under the timer RX Supervision (see RX Supervise, page 79).			
2027SZZZ2 2	LED Enable	Yes	Yes/No	
	Defines whether or no	t the LEDS operation m	ode is enabled	
2027SZZZ2 8	Anti Mask (WatchOUT Only)	No	Yes/No	
	Defines the operation of anti-masking detection and behaves according to the settings defined in quick keys ②①②⑦④ZZ⑦			



Quick Keys	Parameter	Default	Range
2027\$ZZZ3	Detection Mode	2.5 Min	2.5 min/ 2.5 sec
	• Normal 2.5 Min • Fast 2.5 Sec If automatic detection mode is enabled, designate here the polling periodicity of alarm generating events.		
2027\$ZZZ4	Sensitivity		
	 LOW ②HIGH LOW ②MEDIL (For IR Beam) Defmust the beam travevent) LOW 900 	sensitivity of the detect JM ③HIGH ④MAXIMU ines the sensitivity of the nsmission be interrupted mSEC ②MEDIUM 675 C ④MAXIMUM 225 mS	JM (WatchOUT only) ne detector (how long ed to generate an alarm 5 mSEC

Wireless Zones: 2-Way Magnetic Contact Detector (X73)

Quick Keys	Parameter	Default	Range	
20275ZZZ 0	Serial No.	Normal		
	The identifying 11-dig	it number on the detect	or sticker	
2027\$ZZZ2	Control			
2027\$ZZZ2 0	Supervision	No	Yes/No	
	Determines if this zone will be supervised by the system expander according to the time defined under the timer RX Supervision (see <i>RX Supervise, page 79</i>).			
20275ZZZ2 2	LED Enable	Yes	Yes/No	
	Defines whether or no	t the LEDS operation m	ode is enabled	
2027\$ZZZ\$	(M&F Univ only) Magnet Enable	Yes	Yes/No	
	• Yes (Enable) or • 1	No (disable) the transm	itter's magnet.	
20275ZZZ6	Alarm Hold On	On	On/Off	
	Use this parameter to define the minimum period between alarm broadcasts. ON: Only one alarm message is transmitted in any 2.5 minute time-period OFF: Alarm detection is immediately transmitted			



2027\$ZZZ7	Input Termination	N/O	N/O, N/C, DEOL	
	Use this parameter to the system's zones	program the connection	type used for each of	
	 ● (F Shutter only) Shutter: Specifies that the Input 2 will count the number of open and close pulses received. If the zone exceeds the predefined number of pulses, the zone will be tripped and act according to its type definition. After a 25-second timeout, the pulse counter is restarted. The pulse length is the currently defined Loop Response time period. ● N/O: Uses normally-open contacts and no terminating End-of- 			
	Line Resistor	y-open contacts and no	terminating End-of-	
	③ N/C: Uses normally-closed contacts and no terminating End-of-Line Resistor.			
	4 DEOL : Uses normally-closed (NC) contacts in a zone using two $10 \text{ K}\Omega$ of End-of-Line Resistors to distinguish between alarms and tamper conditions			
2027\$ZZZ8	Input Response Time	500	10/500mSEC	
	10 mSEC 2500mSEC Set the duration for which a zone violation must exist in order for the zone to trigger an alarm condition.			
2027\$ZZZ9	(F Univ. only) Anti-Sabotage	Disable	Enable/Disable	
	1 Enable or 2 disable	le the transmitter's anti-	sabotage magnet.	
2027\$ZZZ ©	(F SP only) Shutter Pulse	02	01-16	
	Define here the number	er of pulses for the inpu	t.	



Resistance

Define termination resistance for the wired zones. See *Defining Zone Termination Resistance*, page 46 and also the Resistance parameters below:

Zones → Parameters → Resistance

Quick keys	Parameter	Default	Range
213	Resistance		

You can define separately the end-of-line termination resistance of relay zones and zone expanders.

- 1. Scroll to select the termination resistance value(s) for a wired zone (relay detector, zone expander).
- Press OK.

NOTE: When adding a zone expander (8- or 16-zone), define the termination resistance compatibility for the zone expander itself, according to the "highest" level of any relay detector you intend to connect to it. For example, if you have EOL, DEOL and TEOL detectors connected to the zone expander (or if you have only EOL and DEOL detectors, but you want to leave open the possibility of adding a TEOL detector to the zone expander in the future), you'll need to set the zone expander's termination resistance values to TEOL – the "highest" level.

NOTE: For retrofit installations, define the resistance compatibility according to the resistors already installed in the relay detectors.

Zone Termination Resistance Value in Ohms

	EOL	DEOL	TEOL		EOL	DEOL		EOL	DEOL
00		Custom		05	3.74K	6.98K	10	3.3K	3.3K
01	2.2K (default)	2.2K, 2.2K (default)		06	2.7K	2.7K	11	5.6K	5.6K
02	4.7K	6.8K	4.7K, 6.8K, 12K, (default)	07	4.7K	4.7K	12	2.2K	1.1K
03	6.8K	2.2K		08	3.3K	3.3K	13	2.2K	4.7K
04	10K	10K		09	1K	1K			



22 Testing

The Testing sub-menu has the following system tests. Also see *Testing the System, page 215*.

- Self Test
- Soak Test

Zones → Testing → Self Test

Quick keys	Parameter	Default	Range
220	Self Test		

This feature provides an automated self-test for a selected group of localized intrusion sensors (for example, glass break detectors, sound discriminators and shock sensors) which respond to an artificial source of noise and/or vibration.

Automated self-testing is especially useful when sensors are placed in high security areas where failure cannot be tolerated.

Up to 16 zones can be designated for self-testing.

A sound or vibration generator should be used that can be placed close enough to the sensors to trigger them when the noise source is activated. A Programmable Output acts as the source of switched power for the noise/vibration generator (see *Sensors Test, page 137*). This is set to conform to the testing schedule. The schedule defines the time and day for the first test, and sets the times for repeated tests over a 24-hour period.

A message is sent to the monitoring station if all the related sensors are triggered during the test (if a report code has been defined). With successful completion of the self-test, an entry is also placed in the event log.

If one or more of the sensors fails to trip during the test period, a self-test failure message is generated and sent to the monitoring station. A record of the failure is also entered in the event log.



Zones → Testing → Soak Test

Zones → Testing → Soak Test					
Quick keys	Parameter		Default	Range	
222	Soak Test				
	detectors to displayed to especially us particular zo Up to 20 zor Test list is by reinstated af If a zone in t keypad indi the View Treindicated in zone's 14-da 1. From th	The Soak Test feature is designed to allow false alarms for predefined detectors to be bypassed from the system, while any alarms generated are displayed to the user for reporting to the monitoring station. This is especially useful to prevent unnecessary police response and when a particular zone is causing unidentified problems. Up to 20 zones can be placed on Soak Test. Any zone placed in the Soak Test list is bypassed from the system for 14 days and is automatically reinstated after that time if no alarms have been generated by it. If a zone in the Soak Test list has an alarm during the 14-day period, the keypad indicates to the user that the test has failed. After the user looks at the View Trouble option the trouble message will be erased. This will be indicated in the event log, but no alarm will be generated. The alarmed zone's 14-day Soak Test period is then reset and restarted. 1. From the installer Programming menu, press ②②②. The following appears:			
 ZONES FOR TEST: 001) ZONE 001 N Scroll to the zone you wish to perform the Soak Testoggle to Y (to perform the test), or N. Press OK. To add other zone(s) to be tested, repeat the proceded additional zone(s). 					
	EN 50131	3 Note			

23 Cross Zones

The Cross Zones menu is used for additional protection from false alarms and contains parameters that enable you to link together two related zones. Both must be violated within a designated time period (between 1 and 9 minutes) before an alarm occurs. This type of linking is used with motion detectors in hostile or false-alarm prone environments. The ProSYS Plus allows 50 unique sets of zone links (pairs of zones), which can be manually specified, as required. Zones crossed with themselves are valid pairs. They need to register a violation twice to trigger the alarm. This process is known as Double Knock. You may want to establish a number of zone links, but leave them deactivated at this time (see below).

The Soak Test function is not in compliance with EN50131-3.



Zones → Cross Zones

Quick keys	Parameter	Default	Range
23	Cross Zones	None	

1. From the installer Programming menu, press ②③. The following appears:

ZONES CROSSING:

01) 001 S 001

2. You are at the first **set** of zone links**(01)** – or scroll to go to the next set of zone links (50 sets maximum); the following displays:

CROSSING SET 01:

1ST = 001 2ND = 001

 Select the zone sets manually, as required, by making changes to the number of the first zone in the set, followed by the number of the second zone. If necessary, toggle between all the possibilities for each digit (you can also scroll to them).

Note

Zones crossed with themselves are valid pairs. They need to register a violation twice to trigger the alarm. This process is known as Double Knock.

- 4. Press **OK** to display the correlation type screen where you select how the system will process violations of the paired zones:
 - NONE– Not correlated: Temporarily disables any associated zone pairings
 - **2** ORDERED–Correlated: Effects an alarm so the first listed zone is tripped before the second
 - **3** NOT ORDERED–Correlated: Affects an alarm in which either zone in the pair may be tripped first. In this case, the specified zone order (1st, 2nd) has no bearing on the alarm activation.
- 5. Press **OK** to display the alarm violation differential screen:

T.SLOT: XXX,YYY

SIZE=1 MINUTES

 Enter the time slot, meaning the maximum amount of time allowed between the triggering events for them to be considered a valid violation (XXX, YYY indicate the crossed zones).

Default: 1 min

Range: 1 to 9 minutes

7. Repeat the entire process, as required, for any additional zone links (up to 50).



24 Alarm Confirm

The Alarm Confirm sub-menu enables you to define the following that can be used for alarm verification:

- Confirm Partition
- Confirm Zones

Zones → Alarm Confirm → Confirm Partition

Quick keys	Parameter	Default	Range
240	Confirm partition		
	Defines which partitions are to be defined for alarm sequential confirmation (relevant for intrusion alarms, not HU Confirmation alarms)		
	*	n has a separate timer (time mation time defined in "Co <i>Time</i> , page 172).	* '
	A confirmed intrusion alarm will be reported to the monitoring station if two separate alarm conditions are detected in the same confirmed partition, during the period of the confirmation time window.		
	Cycle through the r	partitions and toggle to Y/N	I for each.

Zones → Alarm Confirm → Confirm Zones

Quick keys	Parameter	Default	Range		
242	Confirm zones				
	Define which zones are to be defined for alarm sequential confirmation (relevant for intrusion alarms, not HU Confirmation alarms).				
	When the first zone goes into alarm the system transmits the first zone alarm. When the second zone goes into alarm, during the confirmation time, the panel transmits the zone alarm and the police code.				
	partition in which the well. • Any code can reset a c • If the first zone is viola confirmation time (no	Firmed zone will be part of the sequential confirmation only if the on in which the alarm occurs is defined as confirmed partition as ode can reset a confirmed alarm. First zone is violated and not restored until the end of the mation time (no second zone alarm), than this zone will be ed from the confirmation process until the next arming.			
		ones and toggle to Y/N for			



3 Outputs

The Utility Output menu provides access to the following submenus and their related programming parameters that enable you to choose among the following event types that will trigger a selected Utility Output, as well as the manner in which the output will be applied:

- Nothing
- System
- Partition
- Zone
- Code

30 Nothing

This parameter is for disabling a previously enabled utility output.

Note

When selecting output utility output number (1-10), if the UO number appears with a 0 first (for example 0xx, whereas xx is the UO number) that indicates the UO is connected directly to the terminal block and not assigned to an output expander.

- 1. From the installer Programming menu go to 3)Outputs and then press OK (\checkmark).
- 2. Scroll to a UO number to disable (1-10), and press **OK**.
- 3. Scroll to **0)Nothing** and then press **OK**.
- 4. Scroll to additional programmed outputs to disable, then press OK after each.

Outputs → Nothing

Quick keys	Parameter	Default	Range
③xx ① ⊙	Nothing		
	Disables a previously ena	abled programmable outr	out



30 System

Define parameters that follow system events.

Note

When selecting output utility output number (1-10), if the UO number appears with a 0 first (for example 0xx, whereas xx is the UO number) that indicates the UO is connected directly to the terminal block and not assigned to an output expander.

- 1. From the installer Programming menu go to 3)Outputs and then press OK (\checkmark).
- 2. Scroll to a UO number to configure (1-10), and press **OK**.
- 3. Scroll to 1)System and then press OK.
- 4. Scroll to a parameter to configure in the table below, and then press **OK**.
- 5. Scroll to the pattern of operation option (see *Pattern of Operation for Utility Outputs, page 145*) and then press **OK**.
- 6. Set other parameters as relevant (such as pulse duration and UO label), and then press **OK** after each.

Outputs → System

Quick keys	Parameter	
3xx 1) 00	Bell Follow	
	Activates when a bell is triggered. If a bell delay was defined, the utility output will be activated after the delay period.	
3xx 1) 08	Communication Failure	
	Activates when communication with the monitoring station cannot be established. Deactivates after a successful call is established with the MS.	
3 xx 1 04	Trouble Follow	
	Activates when a system trouble condition is detected.	
	Deactivates after the trouble has been corrected	
3 xx 1) 06	Low Battery Follow	
	Activates when the ProSYS Plus panel's rechargeable standby battery has insufficient reserve capacity and the voltage decreases to 11 V or following an accessory low battery indication.	
3 xx 1) 06	AC Loss Follow	
	Activates when the source of the main panel's AC power is interrupted. This activation will follow the delay time defined in the system control times and the AC Off Delay Time parameter (see AC Off Delay page 80).	



Quick keys	Parameter	
3 xx 1) 00	Sensors Test	
	Relates to the ProSYS Plus Zone Self-Test (Quick Keys ②②①) This option is selected if the designated utility output is part of the circuit providing switched power for the source of noise (or vibration) used in the sensors test procedure.	
3 xx 1) 0 6	Battery Test	
	A pulsed utility output will follow the battery test only once a day at 9:00 AM. The pulse interval is ten seconds. This parameter is usually used to perform an overload test on the system by using an external device.	
3 xx 1) 00	Bell Burglary	
	Activates the utility output after any bell burglary alarm in any partition in the system.	
3 xx 1) 00	Scheduler	
	The utility output will follow the predefined time programming that is defined in the scheduler of the weekly programs for utility output activation. For additional details, refer to the ProSYS Plus User Manual.	
3 xx 1) 00	Switched Aux	
	Activates the utility output when a fire zone is activated (for fire detection) according to the time defined in double verification of fire alarms (see <i>Double Verification of Fire Alarms, page 85</i>).	
	This utility output will not have the option to choose pulse or latch in the Utility Output: Code. The pulse time is defined in <i>Switch Aux Break</i> , page 79.	
Quick keys	Parameter	
3 xx 1) 02	GSM Error	
	Relates to the installed GSM module. Activates the utility output in the following cases: There is no SIM card in the GSM module or SIM is faulty GSM RSSI signal level is low GSM network fault	
3 xx 1) 08	Bell Test	
1	Activates the output when the "Bell Test" option is selected and deactivates when the "Bell Test" option is finished.	



Quick keys	Parameter
3 xx 1) 00	Installation
	Activates the output following the system installation status. It activates when the system is in installer programming mode and deactivates when exiting installer's mode.
3 xx 1 06	Walk Test
	Activates the output when the "Walk Test" option is selected and deactivates when the "Walk Test" option is finished.
3 xx 1) 06	Burglary
	Activates the output (Pulsed only) following any intruder activation in the system (Regardless the bell time out timer). The maximum number of times an output can be activated from the same zone is defined according to the Swinger Limit Timer (Quick key ①① • •)
3 xx 1) 00	Panic
	Activates the output (Pulsed only) following any panic activation in the system. The maximum number of times an output can be activated from the same zone is defined according to the Swinger Limit Timer (Quick key ① ① ⑤ ⑤).
3 xx 1 08	Fire
	Activates the output (Pulsed only) following any fire activation in the system. The maximum number of times an output can be activated from the same zone is defined according to the Swinger Limit Timer (Quick key ① ① ② ②).
3 xx 1 00	Special
	Activates the output (Pulsed only) following any special emergency activation in the system. The maximum number of times an output can be activated from the same zone is defined according to the Swinger Limit Timer (Quick key $\textcircled{1} \textcircled{1} \textcircled{2} \textcircled{3}$).
3 xx 1) 20	24 Hour
	Activates the output (Pulsed only) following any 24 Hour zone activation in the system. The maximum number of times an output can be activated from the same zone is defined according to the Swinger Limit Timer (Quick key ①①②③).



32 Partition

Define parameters that follow partition events.

Note

When selecting output utility output number (1-10), if the UO number appears with a 0 first (for example 0xx, whereas xx is the UO number) that indicates the UO is connected directly to the terminal block and not assigned to an output expander.

- 1. From the installer Programming menu go to 3)Outputs and then press OK (\checkmark).
- 2. Scroll to a UO (utility output) to configure (1-10), and press **OK**.
- 3. Scroll to **2)Partition** and then press **OK**.
- 4. Scroll to a parameter to configure in the table below, and then press **OK**.
- 5. Select the partition/s by entering the numbers (you can enter a number again to clear it), and then press **OK**.
- 6. Scroll to the pattern of operation option (see *Pattern of Operation for Utility Outputs, page 145*), and then press **OK**.
- 7. Set other parameters as relevant (such as pulse duration and UO label), and then press **OK** after each.

Outputs → Partition

Quick Keys	Parameter	
3 xx 2 00	Ready Follow	
	Activates the output when all selected partition(s) are in a "ready" state.	
3 xx 2 02	Alarm Follow	
	Activates the output when an alarm occurs in the selected partition(s).	
3 xx 2 08	Arm Follow	
	Activates the utility output when the selected partition(s) is armed in either the full (Away) or partial (Stay) arming mode. The utility output will be activated immediately, regardless of the exit delay time period.	
3 xx 2 04	Burglary Follow	
	Activates the output when an intruder (intrusion) alarm occurs in the selected partition(s).	
3 xx 2 06	Fire Follow	
	Activates the utility output when a fire alarm is triggered in the selected partition(s) from the keypads or a zone defined as Fire.	



3 xx 2 06	Panic Follow	
	Activates the utility output when a panic alarm is triggered in the selected partition(s) from the keypads, remote controls or a zone defined as Panic.	
3 xx 2 07	Special Follow (Emergency)	
	Activates the utility output when a special alarm is triggered in the selected partition(s) from the keypads or a zone defined as Special.	
3 xx 2 08	Buzzer Follow	
	Activates the output when a keypad in the selected partition(s) sounds its buzzer during auto setting, Exit/Entry delays, and alarm conditions.	
3 xx 2 09	Chime Follow	
	Activates the output when a keypad in the selected partition(s) sounds its chime.	
3 xx 2 00	Exit/Entry Follow	
	Activates the output when the selected partition(s) initiates an Exit/Entry delay period.	
3 xx 2 00	Fire Trouble Follow	
	Activates the output when a Fire Trouble is detected in the selected partition(s).	
3 xx 2 02	Day Trouble (Zone)	
	Activates when a day zone trouble is detected in the selected partition(s).	
3 xx 2 06	Trouble Follow (General)	
	Activates the output when a fault condition is detected in the selected partition.	
3 xx 2 04	Stay Follow	
	Activates the utility output when the selected partition(s) is armed in the partial (Stay) arming mode.	
3 xx 2 06	Tamper Follow	
	A latched output activated when a tamper occurs in the selected partition(s) and follows any type of tamper. The output deactivates at tamper reset.	
3 xx 2 06	Disarm Follow	
	Activates the utility output when the selected partition(s) is disarmed.	



3 xx 2 00	Bell Follow
	This output enables the connection of different external sounders to different partitions. Activates the output when one of the defined partitions is in alarm mode and the bell is triggered. It will be activated for the programmed bell time or until the alarm is unset. Note The external sounder will not generate any squawk sounds
3 xx 2 08	Bell Stay Off
	 This parameter causes the output to function as follows: In full (Away) arming mode, the output will follow the bell activation in the defined partitions. In partial (Stay) arming mode, the output will not be activated.
	Note If an alarm occurs in a zone that shares more than one partition and one of the partitions is in full (Away) arming mode (while the other is in partial (Stay) arming mode, the output will be activated, as described above. • In partial (Stay) arming mode, a 24-hour zone will not activate this
1	output.
3 xx 2 09	Zone Bypass
	Activates the output when the relevant partitions are in full (Away) arming mode or partial (Stay) arming mode, and any zone in the relevant partitions is bypassed.
3 xx 2 20	Automatic Arm Alarm
	Activates the utility output when there is a not ready zone at the end of the pre warning time during an auto-arm process. The output restore shall be on Bell- Timeout or at user Disarm.
3 xx 2 20	Zone Loss Alarm
	Activates the utility output when there is a lost wireless zone in the system. The output restore shall be on Bell-Timeout or at user Disarm.



3 xx 2 22	Bell Trigger
	Mainly used for the connection of different external sounders to different partitions in the UK. Activates the output when one of the defined partitions is in alarm mode and the bell is triggered. It will be activated for the programmed bell time out or until alarm is disarmed. This output generates squawk sounds and has a special sound for fire alarms.
	Note In fire alarm the output will not follow the bell delay time (see <i>Bell Delay</i> , <i>page 79</i>) but will trigger immediately. It will be triggered in pulsed sequence: five seconds on and two seconds off.
3 xx 2 28	Strobe Trigger
	A latched output that is used to trigger a strobe. The output is activated when one of the defined partitions is in alarm mode or during squawks. The output will be activated until the alarm is disarmed. The output is also activated in test mode.
	Note A tamper alarm will not activate the output if all partitions are disarmed.
3 xx 2 24	Fail To Arm
	Activates when one of the defined partitions fails to arm and deactivates at user reset.
3 xx 2 26	Confirm Alarm
	The output activates when a confirmed alarm occurs in a partition and deactivates at the restore of the alarm confirmation. RISCO recommends using this output for the Red-Care STU Confirmed Alarm channel.
3 xx 2 26	Duress Follow
	Activates the Utility Output when a duress alarm is initiated at the keypad related to the selected partition(s).
3 xx 2 27	HU Confirmation Al. (Hold Up Confirmation Alarm)
•	Activates the output when "Hold-Up Alarm Confirmation" occurs in the selected partition(s). See <i>page 94</i> .



33 Zone

Define parameters that follow zone events. Each utility output can be activated by a group of up to five zones.

Note

When selecting output utility output number (1-10), if the UO number appears with a 0 first (for example 0xx, whereas xx is the UO number) that indicates the UO is connected directly to the terminal block and not assigned to an output expander.

- 1. From the installer Programming menu go to 3)Outputs and then press OK (\checkmark).
- 2. Scroll to a UO (utility output) to configure (1-10), and press **OK**.
- 3. Scroll to **3)Zone** and then press **OK**.
- 4. Scroll to a parameter to configure in the table below, and then press **OK**.
- 5. For each utility output, you can define a group of up to five zones. Select the 1st through 5th zone numbers to be in the group, pressing **OK** after each (press **OK** even if you don't specify a zone number for all of the five). If you choose a zone that's not in the system, the keypad will beep scroll back and enter a valid zone.
- 6. Scroll to the pattern of operation option (see *Pattern of Operation for Utility Outputs, page 145*), and then press **OK**.
- 7. Set other parameters as relevant (such as pulse duration and UO label), and then press **OK** after each.

Outputs → Zone

Quick keys	Parameter	
③ xx ③ ①	Zone Follow	
	Activates the utility output when the selected zone is tripped. The tripped zone need not be armed to trigger the utility output.	
3 xx 3 2	Alarm Follow	
	Activates the utility output when the selected zone causes an alarm.	
3 xx 3 3	Arm Follow	
	Activates the utility output when the selected zone is armed by the system.	
3 xx 3 4	Disarm Follow	
	Activates the utility output when the selected zones are disarmed.	



34 Code

Outputs → Code

Define parameters for enabling codes (for system users) to activate / deactivate utility outputs.

Notes

- The utility output is activated by entering a user code only if the Quick UO parameter under System Control is defined as Disabled. When the Quick UO is defined as Enabled, no user code is required.
- When selecting output utility output number (1-10), if the UO number appears with a 0 first (for example 0xx, whereas xx is the UO number) that indicates the UO is connected directly to the terminal block and not assigned to an output expander.
- 1. From the installer Programming menu go to 3)Outputs and then press OK (\checkmark).
- 2. Scroll to a UO (utility output) to configure (1-10), and press **OK**.
- 3. Scroll to 4)Code and then press OK.
- 4. By default, the Grand Master appears first (you can scroll to another user instead):
- 5. Toggle to either **Y** (yes) or **N** (no) for the Grand Master or another user, and then press **OK**.
- 6. Scroll to the pattern of operation option (see *Pattern of Operation for Utility Outputs, page 145*), and then press **OK**.
- 7. Set other parameters as relevant (such as pulse duration and UO label), and then press **OK** after each.
- 8. Repeat from step 3 for all additional users (500 total).



Pattern of Operation for Utility Outputs

The Pattern of Operation enables you to set activation/deactivation options for utility outputs. When the UO is following more than one partition, zone, or user you can choose the logic of the UO activation or deactivation, as follows:

Latch N/O & Latch N/C

For Latch N/O and Latch N/C, you can choose the **activation and deactivation** logic of the utility output to follow either after all the partitions/zones/user codes or after any of the partitions/zones/user codes.

Pulse N/O & Pulse N/C

If the pattern of operation is defined as Pulse N/O or Pulse N/C, you can choose **only the activation** logic of the utility output to follow either after all the partitions/zones/user codes or after any of the partitions/zones/user codes. The deactivation operation follows the defined time period.

Pattern of Operation	Default	Range
Pulse N/C	05 seconds	01—90 seconds

The utility output is always activated (N/C) before it is triggered (pulled down to negative). When triggered, it deactivates for the pulse duration specified below and then reactivates automatically.

- 1. Choose the desired pulse duration, between **01**–**90 seconds**.
- 2. Press **OK** (\checkmark) and set the activation by toggling to **ALL** or **ANY**.
- 3. Press **OK** and define a label (max 10 characters) for the UO.

Latch N/C

The utility output is always activated (N/C) before it is triggered (pulled down to negative). When triggered, it deactivates and remains deactivated (latched) until the operation is restored.

- 1. Toggle to either ALL or ANY to set the activation, and then press $OK(\checkmark)$.
- Toggle to either ALL or ANY to set the deactivation, and then press OK.
- 3. Define the output label (max 10 characters), and then press **OK**.

Pulse N/O	05 seconds	01-90 seconds
-----------	------------	---------------

The utility output is always deactivated (N/O) before it is triggered (pulled up). When triggered, it activates (is pulled down) for the pulse duration specified below, then deactivates automatically.

- 1. Choose the desired pulse duration, between **01**–**90 seconds**.
- 2. Press **OK** (\checkmark) and set the activation by toggling to **ALL** or **ANY**.
- 3. Select a label for the UO (max 10 characters), and then press **OK**.



Latch N/O

The utility output is always deactivated (N/O) before it is triggered (pulled up). When triggered, it activates (is pulled down) and remains activated (latched) until the operation is restored.

- 1. Toggle to select **ALL** or **ANY** to set the activation, and then press **OK** (\checkmark).
- 2. Toggle to select **ALL** or **ANY** to set the deactivation, and then press **OK**.
- 3. Define the output label (max 10 characters), and then press OK.

35 STU Testing

For the UK only.

Codes

Define code parameters for the following:

- User: Assign to each system user
- **Grand Master:** For the system-responsible, or chief user
- **Installer code:** for the installer/technician
- Sub-installer: for an installer/technician sent to carry out restricted tasks (restricted access) that are defined at the time of system installation by the primary installer/technician
- Code length: Configure code length for Grand Master, installer and sub-installer (also configure per Grade requirement)
 NOTE: The installer designate codes to be either 4 or 6 digits in length. If defined as 6 digits, the length apply for everybody all users/installers, however if defined as 4 digits, Grand Master, Installer, and Sub-Installer must have 4-digit codes, while system users can have codes of various lengths, from 1—4 digits.

The installer typically performs the following for the user codes:

- Determines the authority level for each system user (default level is **User**)
- Designates which partitions can be operated (armed/disarmed) per user code
- Changes the Grand Master, installer, and sub-installer codes
- Modifies code length as necessary (see note above under Code Length)

① User

Define user codes by assigning each user a specific authority level and specific partitions. Up to 499 codes for system users (including Grand Master) can be defined in the system.

Note

For defining user codes, see *Defining User Codes*, page 74.



Codes → User

Quick keys	Parameter	Default	Range
4 ① YYY 0	Partition		
	Specify the partition(s) for which the designated user can have access by using. Press a number to assign, or press the same number again to clear it.		
4 ① YYY 2	Authority Level		

Assign the authority level of each user (for each user code). There are 8 authority levels (not including the Grand Master level). Toggle between the different levels:

- Master: There are no restrictions in the number of master codes (as long as they do not exceed the number of codes remaining in the system).
 - Restricted to assigning and changing user codes belonging to those with authority levels of master and below (user, arm only, maid, unbypass, guard, UO control)
 - Restricted access to designated partitions
- User: There are no restrictions in the number of user codes (as long as they do not exceed the number of codes remaining in the system).
 The user has access to the following:
 - o Arming and disarming
 - Bypassing zones
 - o Accessing designated partitions
 - o Viewing system status, trouble, and alarm memory
 - o Resetting the switched auxiliary output
 - Activating designated utility outputs
 - Changing his/her own user code
- Arm Only: There are no restrictions in the number of Arm Only codes (as long as they don't exceed the number of codes remaining in the system). Arm Only codes are useful for workers who arrive when the premises are already open, but because they are last to leave, they're given the responsibility to close the premises and arm the system. The users with Arm Only codes have access for arming one or more partitions, and cannot change their own code.



Quick keys	Param	eter	Default	Range
		Maid : The maid code is a temporary code, which is automatically an immediately deleted from the system as soon as it is used to arm. The code is typically used for maids, home attendants, and repairmen who must enter the premises before the owner(s) arrive. These codes are used as follows:		
		o For one-time arr	ming in one or more part	itions.
		o If first used to donce for subsequ	isarm the system, the Mauent arming.	id code may be used
		o After deleted, the Master for the n	ne code will need to be re ext usage.	defined by the Grand
		o Cannot change	own code	
		Unbypass : This user he bypassing zones.	nas access to all the user's	privileges apart from
			only disarm the system. A m will be disarmed for th lay page 80).	· ·
		sends a duress alarm	to disarm the system (un to the monitoring station, se used by all system user	but the panel is silent.
	•	UO Control:.		

@@ Grand Master

Codes → Grand Master

Default = **1234.** The Grand Master code is used by the system-responsible (for example, the owner), and has the highest authority level. The Grand Master can change the Grand Master code (in the User menu).

Used to only operate Utility Output(s)

Cannot change own code

Notes

• The Grand Master is index number 00.

0

• The Grand Master, the installer and the sub-installer can enter and change their codes, but the new codes entered don't display at the keypad – instead **** displays.

11/2017 Page 148 5IN2413 B



43 Installer

Codes → Installer

Default = **1111.** The Installer code provides access to the installer Programming menu as well as all other installer menus, allowing modification of system parameters. The installer can change the installer code.

Codes → Sub-installer

Default = 2222. The sub-installer code allows limited access to selected installer programming parameters. It is recommended to change the code to one that is unique.

The sub-installer is prohibited from accessing the following parameters:

- **Default enable** (to change the panel back to default factory settings)
- Code length
- Installer code
- Communication menu
- Customer ID
- Standards

Codes → Code Length

The installer, sub-installer, and Grand Master can define the number of digits. The installer designates the codes to be either 4 or 6 digits in length. If defined as 6 digits, the length apply for everybody - all users/installers, however if defined as 4 digits, Grand Master, Installer, and Sub-Installer must have 4-digit codes, while the system users can codes of various lengths, from 1-4 digits.

Notes

- When you change the code length parameter, all user codes are deleted and must be reprogrammed or downloaded.
- For a 6-digit code length system, 4-digit default codes like 1-2-3-4 (Grand Master), 1-1-1-1 (Installer), and 2-2-2-2 (Sub-Installer) become 1-2-3-4-0-0, 1-1-1-1-0-0, and 2-2-2-2-0-0, respectively.
- If you change the code length back to 4 digits, the system codes are restored to the default 4-digit codes.

EN 50131 Notes

- All code length are 6 digits: xxxxxx
- For each digit 0-9 can be used
- All codes from 000001 to 999999 are acceptable
- Invalid codes cannot be created since after 6 digits are input, the "Enter" is automatic.
- Codes are rejected when trying to create a code in the wrong format.



© Communication

Define the following parameters for establishing system communication:

- Method
- Monitoring Station
- Configuration Software
- Follow Me
- Cloud
- Reporting Priority

© 1 Method

Define communication channel parameters for the following methods:

- PSTN
- GSM
- IP
- LRT

Communication → Method → PSTN

Quick keys	Parameter	Default	Range	
\$00	PSTN			
	The PSTN screens contain parameters for the communication of the ProSYS Plus over the PSTN network.			
\$000	Timers			
	Timers related to communi	Timers related to communication through the PSTN channel		
\$000 0	PSTN Lost	4 minutes	0—20 minutes	
	The time after which the system will regard the PSTN line as lost. This time also specifies the delay before reporting the event into the event log or operating a utility output that follows this event. 00 indicates no supervision of the phone line.			
\$000 2	Wait for Dial Tone	3	0—255 seconds	
	The number of seconds the system waits to detect a dial tone.			



Quick keys	Parameter	Default	Range	
\$ 002	Control			
\$00 0	Alarm Phone Line Cut	No	Yes/No	
	YES: Activates the external sirens if the land line, connected to the ProSYS Plus panel is cut or the telephone service is interrupted for the time defined in the PSTN Lost time parameter. NO: No activation occurs.			
\$00 2	Answering Machine Override	Yes	Yes/No	
	 YES: The Answering Machine Override is enabled, as follows: The configuration software at the alarm company calls the account. The software hangs up after one ring by the CS operator. Within one minute, the software calls again. The ProSYS Plus is programmed to pick up this second call on the first ring, thus bypassing any interaction with the answering machine. 			
	Note			
	This feature is used to prevent interference from an answering machine with remote configuration software operations.			
	NO: The answering machir place in the standard mann		and communication takes	
5003	Parameters			
50030	Dial Method	DTMF		
	When selecting the dialing method, your choice must be compatible with the type of phone service available at the protected premises. Scroll between the options: • DTMF (touch-tone) • PULSE, 20BPS • PULSE, 10BPS			
\$0032	Rings To Answer	12	01-15	
	The number of rings before the system answers an incoming call			
5 113 6	Area Code			
	The system area telephone code. This code will be deleted from a telephone number while the system tries to dial the number through the PSTN network.			



Quick keys	Parameter	Default	Range
50034	PBX Prefix		
	A number dialed to access an outgoing line when the system is connected to a Private Branch Exchange (PBX) and not directly to a PSTN line. This number will be added automatically by the system while trying to call from a PSTN line.		
5003	Call Wait		
	Enter a string to prevent call waiting from interrupting the system during a report to the monitoring station, as defined by your local telephone provider, for example: *70. This string will only appear during the first attempt to send a report to a MS number (PSTN or GSM).		

Note

Do not use the Call Wait feature inappropriately. Using this feature on a line with no call waiting will prevent successfully reporting to the monitoring station.



Communication → Method → GSM

Quick Keys	Parameter	Default	Range	
9 12	GSM			
	The GSM screen contains parameters for the communication of the system over the GSM/GPRS network.			
9020	Timers			
	Allows to program timers	related to operation w	rith the GSM module	
\$020 0	GSM Lost	1 minute	001—255 minutes	
	The period length during which the reception is below the minimum threshold (defined by the GSM Network Sensitivity parameter) that triggers the panel to send a report of GSM Lost. (⑤①②⑤ 4)			
50202	GSM Network Loss	10 minutes	001 — 255 minutes	
	The period length after w loss to the monitoring sta	*	d a report of GSM network	
\$020 8	SIM Expire	0 months	00—36 months	
	A pre-paid SIM card has a defined life length defined by the provider. After each charging of the SIM, the user will have to manually reset the expiration time of the SIM card. Thirty days before the expiring date, a notification will be displayed on the keypad's LCD. Set the SIM expiring date (in months) using the numeric keys, according to the time given by the provider.			
50204	MS Polling	00000	0-65535 times	
	The time period that the system will establish automatic communication (polling) with the monitoring station over GPRS, in order to check the connection.			

3 polling times can be defined: Primary, Secondary and Backup. For each time period define the number of units between 1-65535. Each unit represents a time frame of 10 seconds.

Notes

- When using the polling feature through GPRS the MS channel parameter must be defined as GPRS only.
- The report code for MS polling is 999 (Contact ID) or ZZ (SIA)
- When the GPRS Primary polling time is defined as 0, no polling message is sent to the MS



The use of these time periods depends on the reporting order to the MS defined by the Report Split MS Urgent parameter. See: $\bigcirc \bigcirc \bigcirc$ (Communication \rightarrow MS \rightarrow Report Split).

The following table describes how the three MSs use the primary, secondary and backup time intervals in the various MS report split options.

MS report Urgent events	MS 1 Polling State	MS 2 Polling State	MS 3 Polling State
Do not call	N/A	N/A	N/A
Call 1st	Primary	N/A	N/A
Call 2 nd	N/A	Primary	N/A
Call 3 rd	N/A	N/A	Primary
Call All	Primary	Primary	Primary
1st Backup 2nd	Primary	If (MS 1 is OK) Secondary else (MS#1 Fails) Backup	N/A
1 st Backup 2 nd 3rd	Primary	If (MS#1 is OK) Secondary else (MS#1 Fails) Backup	If (MS#2 is OK) Secondary else (MS#2 Fails) Backup
1st Backup 3rd Call 2nd	Primary	Primary	If (MS#1 is OK) Secondary else (MS#1 Fails) Backup
2 nd Backup 3 rd Call 1 st	Primary	Primary	If (MS#2 is OK) Secondary else (MS#2 Fails) Backup



	MS Polling example:		
	When selecting MS 1 (GPRS), MS 2 (GPRS) and split report option 1st		
	1	e default primary, secondar	y and backup time
		process will be as follows:	
	In a normal state:	come i i i i i co	
		GPRS network using the GS	
	-	cording to the primary time	
	,	r) according to the secondar on to MS 1 fails, polling occu	•
		kup interval to MS 2. When	
	_	s back to the secondary time	
	3600 seconds (1 hour	-	interval and occurs every
9022	GPRS	,	
	Allows programmin	g parameters that relate for	the communication over
\$022 0	APN Code		
	To establish a conne	ction to the GPRS network a	n APN (Access Point
	_	red. The APN code differs fi	-
		der to another (the APN code	e is provided by your
	cellular provider).		
	The ProSYS Plus supports an APN code field of up to 30 alphanumeric		
	characters and symb	ools (!, &, ? etc.).	T
50222	APN User Name		
	Enter user name for	the GPRS network (if requir	red). The user name is
	provided by your pr		
	The ProSYS Plus sup	ports a user name field of u	p to 20 alphanumeric
	characters and symb	ools (!, &, ? etc.).	
\$022 8	APN Password		
	The password to the	GPRS network as provided	by your provider (if
	required).		
	The ProSYS Plus sup	pports a user name field of u	p to 20 alphanumeric
	characters and symbols.		
\$023	Email		
	The following progr	amming parameters are use	d to enable sending
	Follow Me event me	essages by e-mail through Gl	PRS.
	Note		
	To enable e-mail me	ssaging, the GPRS paramete	ers have to be defined.



	N. 11 TT . 1	000 000 000 000	
5023	Mail Host	000.000.000.000	
	The IP address or the host name of the SMTP mail server.		
50232	SMTP Port	00000	00000 — 65535
	The port address of	the SMTP mail server.	
50238	Email Address		
	The Email address t	hat identifies the system to t	he mail recipient.
50234	SMTP User Name		
		the user to the SMTP mail so can include up to 10 alphan	
50236	SMTP Password		
	The password authenticating the user to the SMTP mail server The password can include up to ten alphanumeric characters and symbols (!, &, ? etc.).		
5024	Controls		
	Allows controlling t	imers related to operation w	rith the GSM module.
S024 0	Caller ID	No	Yes/No
	the predefined Follo	on enables to restrict SMS re ow Me phone numbers. If the f the Follow Me numbers, th	e incoming number is
\$ 12 \$	Parameters		
	Allows to program	timers related to the operation	on with the GSM module.
\$02\$ 0	PIN Code		
	The PIN (Personal Identity Number) code is a 4 to 8 digit number giving you access to the GSM network provider. Note You can cancel the PIN code request function by inserting the SIM card		
	into a regular mobile phone and according to the phone settings, disable this function.		
\$025 2	SIM Number		
	The SIM phone number. The system uses this parameter to receive the time from the GSM network in order to update the system time.		



\$025 8	SMS Center Phone		
	A telephone number of the message delivery center. This number can be obtained from the network operator.		
S02S 4	GSM RSSI		Disabled/Low/High
	Set the minimum accepta Options: Disabled (No tr High signal	•	
5026	Prepay SIM		
	Allows programming pa card is used in the system		ed when a prepaid SIM
S026 0	Get Credit by		
	defined number or by calchannel. The activation of Master. • SMS Credit Message provider and the process SMS message requested. • Voice Credit: Enter be established. • Service Command: the provider.	card by sending a prede lling a predefined numb if the credit request can ge: Enter the message co ovider's phone number st will be sent. the provider's phone nu	efined SMS command to a per through the voice
S026 2	Phone To Send		
	The provider's phone nu request will be sent to or selection in the Get Cred	a call will be establishe	
50268	Phone To Receive		
	The provider's telephone number from which an automatic SMS credit status message will be sent from.		
50264	SMS Message		
	When performing manual the provider in order to predefined (for example * When using a service co	receive the SIM card cre "BILL") by your service	e provider.



Communication \rightarrow Method \rightarrow IP

Quick Keys	Parameter	Default	Range	
503	IP			
	The IP menu contains parameters for the communication of the system over			
	the IP network.			
\$ 130	IP Config			
	The IP menu contains parameters for the communication of the system over the IP network.			
\$()3() 0	Obtain IP			
		l ether the IP address, whic	h the ProSYS Plus refers	
	Defines automatically whether the IP address, which the ProSYS Plus refers to, is dynamic or static.			
\$0300 0				
		address provided by the	DHCP.	
503002	Static IP			
	The system refers to a static IP Address.			
\$0302	Panel Port			
	The ProSYS Plus Port address.			
@@@ @	Panel IP (Only for			
\$0 3 0 8	Static IP)			
	he ProSYS Plus static IP address			
\$0 3 0 4	Subnet Mask (Only			
30304	for Static IP)			
	The subnet mask is used address ends.	e subnet mask is used to determine where the network number in an IP		
	Gateway (Only for			
\$030 5	Static IP)			
	to other LAN segments. T	cal Gateway, which enables communication settings . This address is the IP address of the router LAN segment as the ProSYS Plus.		
	DNS Primary (Only			
\$030 6	for Static IP)			
	The IP address of the primary DNS server on the network.			
\$0 3 0 7	DNS Secondary (Only	7		
	for Static IP)	1 DMG 3		
	The IP address of the secondary DNS server on the network.			



5032	Email		
	Allows programming parameters that enable the system to send e-mail messages following Follow Me events		
\$032 0	Mail Host	000.000.000.000	
	The IP address or the host name of the SMTP mail server.		
50322	SMTP Port	00000	00000-65535
	The port address of the SN	ATP mail server	1
\$032 8	Email Address		
	The e-mail address that id	entifies the system to the	mail recipient.
50324	SMTP Name		
	A name identifying the user to the SMTP mail server. Its field can include up to 10 alphanumeric characters and symbols (!, &, ? etc.).		
\$032 5	SMTP Password		
	The password authenticating the user to the SMTP mail server. It can include up to 10 alphanumeric characters and symbols (!, &, ? etc.).		
\$032 6	Encryption		
	The encryption type used for IP		
\$033	Host Name	Security System	Up to 32 Characters
	IP address or a text name used to identify the ProSYS Plus over the network. Default: Security System		
5034	MS Polling		
	(Keep Alive)		
	The time period that the system will establish automatic communication (polling) with the monitoring station over the IP network, in order to chec the connection. Three polling times can be defined: primary, secondary and backup. For each time period, define the number of units between 1–6553 Each unit represents a time frame of 10 seconds. Note When using the polling feature through IP, the MS channel parameter mube defined as IP only.		
	The use of these time periods depends on the reporting order to the MS defined by the report split MS urgent parameter (see <i>MS Urgent, page 173</i>). The following table describes how the three MSs use the primary, secondary		

& backup time intervals in the various MS report split options:



MS report Urgent events	MS 1 Polling State	MS 2Polling State	MS 3 Polling State
Do not call	N/A	N/A	N/A
Call 1st	Primary	N/A	N/A
Call 2 nd	N/A	Primary	N/A
Call 3 rd	N/A	N/A	Primary
Call All	Primary	Primary	Primary
1 st Backup 2 nd	Primary	If (MS 1 is OK) Secondary else (MS#1 Fails) Backup	N/A
1st Backup 2nd3rd	Primary	If (MS#1 is OK)	If (MS#2 is OK)
		Secondary	Secondary
		else (MS#1 Fails)	else (MS#2 Fails)
		Backup	Backup
1st Backup 3rd Call	Primary	Primary	If (MS#1 is OK)
2 nd			Secondary
			else (MS#1 Fails)
			Backup
2 nd Backup 3 rd	Primary	Primary	If (MS#2 is OK)
Call 1st			Secondary
			else (MS#2 Fails)
			Backup

MS Polling example:

When selecting MS 1 (IP Only), MS 2 (IP only) and split report option 1st Backup 2nd (using the default primary, secondary and backup time intervals), the report process will be as follows:

In a normal state:

Polling through the IP network using the IP module will occur every 30 seconds according to the primary time interval to MS 1 and every 3600 seconds (1 hour) according to the secondary time interval to MS 2. When communication to MS 1 fails, polling occurs every 30 seconds according to the backup interval to MS 2. When communication returns to MS 1, polling reverts back to the secondary time interval and occurs every 3600 seconds (1 hour) to MS#2



Communication → Method → Radio (LRT)

Quick Keys	Parameter	Default	Range	
504	LRT (Long-Range Radio Transmission)			
	The LRT menu contains parameters for setting a system long-range radio communication network, using the Location Aided Routing (LARS) protocol (LARS, LARS1, or LARS2) or E-LINE protocol to facilitate detailed event transmission to monitoring stations.			
5140	Account 0 0—00FFFF			
	The number that recognizes the customer at the monitoring station. You can define an account number for each monitoring station. These account numbers are the 6-digit numbers assigned by the monitoring station.			
	Notes			
	 Account Number Communication Format: The account number will always be reported as 4 digits, for example: A number defined as 000012 will be reported as 0012 			
	The account range depends on which protocol is in effect, as follows: Protocol Range LARS 0000–7779 (First 3 digits: 0–7 only) LARS1 0000–1FFF LARS2 0000–FFFF If more than 4 digits were defined, the system always sends the last 4 digits of the account number, for example: Account number that was defined as 123456 will be sent as 3456.			
\$ 142	System	0	LARS 0-3 LARS1 0-7 LARS2 0-F	
	Use the one-digit system code to efficiently allocate transmitter reporting among monitoring stations.			
\$14 8	Periodic Test	00	HR: 00–96 MIN 00–59	
	The Periodic Test enables you to set how often the system will automatically establish communication to the monitoring station in order to confirm operational functionality. The periodic test involves sending the account number and a valid test report code (Contact ID 602).			



Quick Keys	Parameter	Default	Range	
5044	No. Comm. Parameter	060	0-255	
	Specify the timeout threshold for establishing communication between the LRT and bus, which upon being reached, triggers an event report to the monitoring station.			
\$04\$	Control 060 0—255			
	Control parameters			
\$ 14 \$ 0	Disable Low Battery Y Yes/No			
	YES: [For use when LRT is housed in the main ProSYS Plus box] LRT low battery trouble condition will not be regarded.			

trouble condition will be regarded.

NO: [For use when LRT is housed remotely in its own box] LRT low battery

11/2017 Page 162 5IN2413 B



©2 Monitoring Station

Define the following, which enable the system to establish communication with up to three monitoring station accounts:

- Report Type
- Accounts
- Communications Format
- Controls
- Parameters
- MS Timers
- Report Split
- Report Codes

Communication → Monitoring Station → Report Type

Quick Keys	Parameter
\$20	Report Type
	Defines the communication type that the system will establish with each monitoring station account. The system can report in these (optional) communication channels: Voice, IP, SMS, LRT, SIA IP. NOTE: If there is a communication fault with the monitoring station the panel will not be ready to arm.
\$ 21 0 − 8	Select MS
	Scroll to select the monitoring station account (MS 1—MS 3) for which you want to define the reporting type, and then press OK .
\$2 11-3 1-5	MS Channel
	Scroll to select the communication channel to use for reporting to the monitoring station account, and then press OK : ① Voice ② IP ③ SMS ④ LRT ⑤ SIA IP



Quick Keys	Parameter	
\$2 1 0-3 0	Voice	
	Reports to the monitoring station will be don network. Reporting by Voice can be establish channels. The optional channels depend on the your system. Select the required channel: 1. PSTN/GSM: 2. GSM/PSTN: 3. PSTN Only: 4. GSM Only: The outgoing calls are executable and channel only. Enter the monitoring station telephone number and special characters (if required):	ed through different the hardware installed in the hardware installed in the the detection that the desired the de
	Function Results	
	Stop dialing and wait for a new dial tone	W
	Wait a fixed period before continuing	,
	Send the DTMF * character	*
	Send the DTMF # character	#
	Delete numbers from the cursor position	[*] [©] simultaneously
\$211-32	IP	
	Encrypted events are sent to the monitoring s GPRS network using TCP/IP protocol. 128 BI used. RISCO Group's IP/GSM Receiver Softw	Γ AES encryption is

site receives the messages and translates them to standard protocols used by monitoring station applications (For example; contact ID).

Note

To enable GPRS communication the SIM card has to support GPRS channel.

Reporting by IP can be established through different channels. The optional channels depend on the hardware installed in your system. Select the required channel via the Configuration Software as follows:

IP/GPRS: The panel checks for the availability of the IP network. During regular operation mode all calls and data transmission are carried out using the IP network line. In the case of trouble in the IP network, the report is routed to the GPRS network.



Quick Keys	Parameter
	 GPRS/IP: The panel checks for the availability of the GPRS network. During regular operation mode all calls and data transmission are carried out using the GPRS. In the case of trouble the report is routed to the IP network. IP Only: The report is executed through the IP network only. GPRS Only: The report is executed through the GPRS network. Enter the relevant IP and Port numbers for the MS that will receive reports from the system (See IP and Port)
\$2 1 0-3 8	SMS
	Enter the relevant phone numbers for the monitoring station that will receive reports from the system via encrypted SMS (see explanation in Voice type, above) Events are sent to the monitoring station using encrypted SMS messages (128 BIT AES encryption). Each event message contains information including the account number, report code, communication format, time of event and more. The event messages are received by RISCO's IP Receiver software located at the monitoring station site. The IP Receiver translates the SMS messages to standard protocols used by the monitoring station applications (For example; contact ID). This channel requires that RISCO Group's IP/GSM receiver has to be used at the MS side.
\$214	LRT
	The LRT menu contains parameters for setting a system long-range radio communication network, using the Location Aided Routing (LARS) protocol (LARS, LARS1, or LARS2) or E-LINE protocol to facilitate detailed event transmission to monitoring stations.
\$2 0≎ 6	SIA IP
	NOTE: ● = monitoring station (MS) account Reports to the monitoring station can be transmitted using the SIA IP protocol to standard SIA IP receivers. Using SIA IP enables transmission of visual imagery from PIR cameras. Reporting by SIA IP can be established through the hardware channels installed in your system. Reporting of the SIA IP is 128 BIT AES encrypted. SIA IP reports also support labels reporting. Usage of SIA IP requires setting. See: ⑤②⑤③ Encryption Key SIA IP Receiver Number SIA IP Receiver Line Number



Communication → **Monitoring Station** → **Accounts**

Accounts The number that recognizes the customer at the monitoring static possible). Account number for each monitoring static possible). Account numbers are 6-digitnumbers in length, an assigned by the central station. To edit an MS account number (code): 1. From the installer Programming menu, go to: 5 → 2 → 2 2. Scroll to the MS account (①, ② or ③), and then press OK 3. Define/modify the code as needed, per the communication notes below: Notes Notes Notes for Account Number in Contact ID Communication ID The account number will always be reported as 4 digits example: A number defined as 000012 will be reported If more than 4 digits were defined, the system always s last 4 digits of the account number, for example: Account	
The number that recognizes the customer at the monitoring syou can define an account number for each monitoring static possible). Account numbers are 6-digitnumbers in length, an assigned by the central station. ➤ To edit an MS account number (code): 1. From the installer Programming menu , go to: 5 → 2 → 2 2. Scroll to the MS account (①, ② or ③), and then press OK 3. Define/modify the code as needed, per the communication notes below: Notes Notes for Account Number in Contact ID Communication ID • The account number will always be reported as 4 digits example: A number defined as 000012 will be reported • If more than 4 digits were defined, the system always s	
you can define an account number for each monitoring static possible). Account numbers are 6-digitnumbers in length, an assigned by the central station. ➤ To edit an MS account number (code): 1. From the installer Programming menu , go to: 5 → 2 → 2 2. Scroll to the MS account (①, ② or ③), and then press OK 3. Define/modify the code as needed, per the communication notes below: Notes Notes Notes for Account Number in Contact ID Communication 1 • The account number will always be reported as 4 digits example: A number defined as 000012 will be reported • If more than 4 digits were defined, the system always s	
 From the installer Programming menu, go to: 5 → 2 → 2 Scroll to the MS account (①, ② or ③), and then press OK Define/modify the code as needed, per the communication notes below: Notes Notes for Account Number in Contact ID Communication I The account number will always be reported as 4 digits example: A number defined as 000012 will be reported If more than 4 digits were defined, the system always s 	on $(1-3)$
 2. Scroll to the MS account (●, ② or ③), and then press OK 3. Define/modify the code as needed, per the communication notes below: Notes Notes for Account Number in Contact ID Communication I The account number will always be reported as 4 digits example: A number defined as 000012 will be reported If more than 4 digits were defined, the system always s 	
 3. Define/modify the code as needed, per the communication notes below: Notes Notes for Account Number in Contact ID Communication I The account number will always be reported as 4 digits example: A number defined as 000012 will be reported If more than 4 digits were defined, the system always s 	
 Notes Notes for Account Number in Contact ID Communication I The account number will always be reported as 4 digits example: A number defined as 000012 will be reported If more than 4 digits were defined, the system always s 	(√).
 Notes for Account Number in Contact ID Communication I The account number will always be reported as 4 digits example: A number defined as 000012 will be reported If more than 4 digits were defined, the system always s 	format
 The account number will always be reported as 4 digits example: A number defined as 000012 will be reported If more than 4 digits were defined, the system always s 	
 example: A number defined as 000012 will be reported If more than 4 digits were defined, the system always s 	Format:
that was defined as 123456 will be sent as 3456.	
 In Contact ID you can place digits and letters A–F. The character is always sent as 0 for example: Account num was defined as 00C2AB will be sent as C20B. 	
Notes for Account Number in SIA Communication Format:	
 Account number for SIA should be defined as a decimal (Only digits 09) 	al number
 Account number can be reported as 1 to 6 digits. To ser account number with less than 6 digits use the "0" digit example: For account number 1234 enter 001234. In this system will not send the "0" digit to the monitoring sta 	t, for s case the
• In order to send the "0" digit in SIA format, located at to side of the number, use the "A" digit instead of the "0" example, for account number 0407 enter 00A407, for a 6 account number such as 001207 enter AA1207.	the left digit. For



Quick Keys	Parameter		
\$22 0	Partition (MS Accounts per Partition)		
	You can specify the monitoring station account(s) to notify upon events that occur for the partitions you select (there are 32 partitions maximum per system). If you selected partition(s) from 1—3, you then choose the monitoring station account(s) to notify (1—3) for each, followed by entering the respective account numbers (codes). If you selected partition(s) from 4—32, you then enter the account numbers (codes); all monitoring station accounts will be automatically notified for events occurring in these partitions.		
	To designate MS accounts per partition:		
	 From the installer Programming menu, go to: 5 → 2 → 2 (Communication → MS → Accounts) Scroll to 01)Partition, and then press OK (✓). Select a partition number and then press OK. 		
	 4. [If you selected partition 1−3]: Scroll to the MS account (①, ② or ③), press OK, enter the MS account number (code), and press OK. 5. [If you selected partition 4−32]: Enter the MS account number (code) and press OK. 6. Repeat this procedure for all additional monitoring station accounts-per-partition designations NOTE: Advanced configuration options are also available from the Configuration Software. 		

Communication → **Monitoring Station** → **Communications Format**

Quick Keys	Parameter
528	Communications Format
	Enables the system to communicate to the monitoring station.
	Note
	See Appendix E:
	Library Voice Messages, page 234.
	• Contact ID: The system allocates Report Codes supporting Contact (Point) ID
	2 SIA: The system allocates Report Codes supporting SIA (Security
	Industry Association) format



Communication → Monitoring Station → Controls

Quick Keys	Parameter	Default	Range	
\$24	Controls			
	Programmable controls system and the monitor		cation between the	
5240	Call Save	No	Yes/No	
	YES: For reducing MS traffic congestion, the system holds all non-urgent events (for example, opening/closing reports, test transmissions) for up to 12 hours (programmable) and sends them as a batch at a less busy time, for example, at night (see <i>Periodic Test</i> , <i>page 171</i>). NO: All events are transmitted as they occur.			
S24 2	Show Kissoff	No	Yes/No	
	YES: The keypad indicates when the dialer receives the kissoff signal from the MS's receiver. NO: The keypad does not indicate on receipt of the kissoff signal.			
5248	Show Handshake	No	Yes/No	
	YES: The keypad indication from the monitor NO: No indication for ereceiver	ring station's receive	r.	
5244	Audible Kissoff	No	Yes/No	
YES: There is an audible sound emitted from the keypa dialer receives the kissoff signal from the monitoring streceiver. NO: There is no audible sound on receipt of the kissoff		onitoring station's		
5246	SIA Text	No	Yes/No	
	Yes: SIA format report to monitoring station will support text transmission over the voice channel. Note The monitoring station receiver should support the SIA Text protocol No: SIA format will not support text			



Quick Keys	Parameter	Default	Range	
5246	Random MS Testing	No	Yes/No	
	Yes: At power-up the panel randomly set a test time between 00:00 and 23:59. Once the hour is set, this will be the fixed report hour of this panel. The time can be viewed under the Periodic test timer fields (⑤②⑥ ①). The interval of sending the test will be as defined under the Periodic Test timer No: The periodic test will be according to the time defined under the MS periodic timer (⑤②⑥ ①).			
5247	SIA W/Partition	No	Yes/No	
	Indicates the partition when reporting to the monitoring station in SIA over the voice channel (GSM). Yes: SIA format report to MS will support text transmission over the voice channel. Note			
The monitoring station receiver should support the SIA Te				
	No: SIA format will not su	pport text		

Communication → Monitoring Station → Parameters					
Quick Keys	Parameter	Default	Range		
\$2\$	Parameters				
	Programmable parar	neters related to oper	ration with the MS		
5250	MS Retries	08	01-15		
	after failing to establi NOTE: If there is a co	The number of times the ProSYS Plus redials the monitoring station after failing to establish communication. NOTE: If there is a communication fault with the monitoring station the panel will not be ready to arm.			
S2S 2	Alarm Restore				
	option informs the Man alarm restore. The	Specifies under what conditions an Alarm Restoral is reported. This option informs the MS of a change in the specified condition(s) during an alarm restore. These reports need a valid Report Code. ON BTO (Bell Time Out) – Reports the restoral after the audible			
	alarm times out.	ine Out) – Reports tri	e restorar arter the audible		
 FOLLOW ZONE – Reports the restoral when the zone in walarm occurs returns to its non-violated (secured) state. AT DISARM – Reports the restoral when system (or the pin which the alarm occurs) is disarmed, even if the siren has to the pin which th			ecured) state. hen system (or the partition		



Quick Keys	Parameter	Default	Range
S2S 8	SIA IP Param.		

Define the following SIA IP parameters for each monitoring station account (MS1, MS2, and MS3):

- 1) Encryption Key
- 2) Receiver Number
- 3) Line Number

• Encryption Key

A 32-digit digital signature and authentication for purposes of safeguarding data transmission to and from the monitoring station. The key must be defined for both the panel and monitoring station. For use when SIA IP report type is in effect. A unique key can be defined for each of up to three monitoring stations.

2 Receiver Number

A 4 digit number which states the SIA IP receiver number as supplied from the monitoring station. A unique key can be defined for each of up to three monitoring stations.

6 Line Number

A 4 digit number which states the SIA IP receiver line number as supplied from the monitoring station. A unique key can be defined for each of up to three monitoring stations.



Communication → Monitoring Station → MS Timers

Communication	on → Monitoring Statio	on → MS Timers			
Quick Keys	Parameter	Default	Range		
526	MS Times				
	Allows programmin station.	g timers related to opera	ation with the monitoring		
\$26 0	Periodic Test		HR = 024 $MIN = 059$ $D = per table$ below		
	will automatically es in order to check the the account number TX). Set the test time	The Periodic Test enables you to set the time period that the system will automatically establish communication to the monitoring station in order to check the connection. The periodic test involves sending the account number and a valid test report code (Contact ID 602, SIA TX). Set the test time and daily interval for Periodic Test Reporting. Use the table below to specify the daily testing intervals (D)-effective			
	from the day of prog D Meaning O Never H Every hour 1 Every day 2 Every other d 3 Every 3 rd day 4 Every 4 th day 5 Every 5 th day 6 Every 6 th day 7 Once a week				
5262	Abort Alarm	15 secs	00-255 seconds		
	station. If the alarm	ay before reporting an a system is disarmed with shall be sent to the moni	in the abort window, no		
5268	Cancel Delay	5 mins	00-255 minutes		
	receive a cancel alar code. This happens i the cancel delay time alarm time is over.	n code, sent subsequent	tered to reset the alarm in		
	Note Ensure that Cancel A	Alarm report code is def	ined.		
Ensure that Cancel Alarm report code is defined.					



Quick Keys	Parameter	Default	Range		
S26 4	Listen In	120 sec	1–255 seconds		
	The time duration for the voice alarm verification. A line. The monitoring station car conversation by pressing trepeatable two minute extreset and start over again. Pressing "2" during Lister "*" during Listen In time	Ifter this period the system expand the listen in time the digit "1" on the teleph ension). In this case, the L	n hang up the e during the one (for a disten In time will		
5265	Confirmation				
		These confirmation times relate to the zone's sequential confirmation (see ②④) - Alarm Confirm, page 134).			
\$26\$ 0	Confirm Start (Confirm delay time)	000	1—120 minutes		
	process until the timer has has been armed and will p	Specifies that the system cannot start a sequential confirmation process until the timer has expired. This time starts when the system has been armed and will prevent confirmed alarms being generated in situations when a person has been accidentally locked in the			
52652	Confirm Time	030	30—60 minutes		
	(Confirmation Time Window)				
	Specifies a time period that starts when an intrusion alarm is triggered for the first time. If a second intrusion alarm is triggered before the end of the time period (the "confirmation time window"), the system will then send a "confirmed" alarm notification to the monitoring station.				



Communication → **Monitoring Station** → **Report Split**

Quick Keys	Parameter	Default	Range		
527	Report Split				
	The Report Split menu contains parameters that enable the routing				
	specified events to up to three monitoring station (MS) receivers.				
5270	MS Arm/Disarm	1st backup 2nd			
	Reports Arming/Disar	ming (meaning Closir	ngs/Openings) events to		
	the monitoring station	(MS):			
	O Do not call (no repo	ort).			
	Call 1st: Reports Op	penings and Closings t	o MS 1.		
	3 Call 2nd: Reports O	penings and Closings	to MS 2.		
	4 Call 3rd: Reports O	penings and Closings	to MS 3.		
	6 Call all: Reports Op	enings and Closings t	o the all defined MS.		
	6 1st Backup 2nd: Re		9		
	If communication is not established, calls MS 2.				
	1st Backup 2nd 3rd : Reports to MS 1.				
	If communication is not established calls MS 2. If communication is				
	not established again calls the MS.				
	3 1st Backup 3rd Call 2nd: Reports MS 1. If communication is not established calls to MS 3. In addition it will also call MS 2.				
	9 2nd Backup 3rd Call 1st: Reports to MS 2. If communication is not				
	established calls MS 3. In addition it will also call MS 1.				
5272	MS Urgent	1st backup 2nd			
	Reports urgent (alarm)		ring station (MS):		
	O Do not call (no repo		0 ()		
	2 Call 1st: Reports Openings and Closings to MS 1.				
	3 Call 2nd: Reports Openings and Closings to MS 2.				
	4 Call 3rd: Reports Openings and Closings to MS 3.				
	6 Call all: Reports Openings and Closings to the all defined MS.				
	6 1st Backup 2nd: Reports Openings and Closings to MS 1. If				
	communication is not established, calls MS 2.				
	1st Backup 2nd 3rd: Reports to MS 1. If communication is not				
	established calls MS 2. If communication is not established again calls the MS.				
	3 1st Backup 3rd Call 2nd: Reports MS 1. If communication is not established calls to MS 3. In addition it will also call MS 2.				
	9 2nd Backup 3rd Call 1st: Reports to MS 2. If communication is not				
	established calls MS 3.	In addition it will also	o call MS 1.		



Quick Keys	Parameter	Default	Range		
\$27 8	MS Non Urgent				
	Reports non-urgent events (supervisory troubles and test reports) to the monitoring station (MS):				
	Do not call (no report)				
	2 Call 1st: Reports Openi	ngs and Closings to MS 1			
	3 Call 2nd: Reports Open	nings and Closings to MS	2.		
	4 Call 3rd: Reports Open	ings and Closings to MS 3	3.		
	6 Call all: Reports Openin	ngs and Closings to the al	l defined MS.		
	6 1st Backup 2nd: Reports Openings and Closings to MS 1. If				
	communication is not esta	blished, calls MS 2.			
	1 st Backup 2nd 3rd : Reports to MS 1. If communication is no established calls MS 2.				
	If communication is not es	tablished again calls the	MS.		
	3 1st Backup 3rd Call 2nd : Reports MS 1. If communication is no established calls to MS 3. In addition it will also call MS 2.				
	9 2nd Backup 3rd Call 19 established calls MS 3. In a	1			

Communication → **Monitoring Station** → **Report Codes**

Quick Keys	Parameter	Default	Range	
528	Report Codes			
	Enables you to view or program the codes transmitted by the system to report events (for example, alarms, troubles, restores, supervisory tests, and so on) to the monitoring station.			
	of the central station's own policis important to check the central	des specified for each type of event transmission are a function central station's own policies. Before programming any codes, it ortant to check the central station protocols. Reporting codes are ed by default, according to the selected communication format contact ID.		
	Assigns a specified report code for each event, based on the report format to the monitoring station. An event that is not assigned w report code will not be reported to the monitoring station. For list report events see <i>Monitoring Station Report Codes</i> , page 235.		is not assigned with a ng station. For list of	
	NOTE: Using a double-zero (00) being generated.	for any event v	vill prevent a report from	



Quick Keys	Parameter	Default	Range	
\$2 80	Edit Codes			
,	For each code type, edit their respective parameters as needed.			
\$2 8 1 0	Alarms			
\$280 00	Panic			
\$2 8 1 02	Fire			
\$2 806	Medical			
528104	Duress			
\$2 8 1 0 5	Confirm Alarm			
528106	Box Tamper			
528107	Bell Tamper			
528108	Recent close			
\$2 8 1 09	HU Confirm			
52812	Main Troubles			
	Common system trouble pa	rameters.		
528120	Low Battery			
528122	Bell			
528124	AC Loss			
528125	AUX			
528126	Clk Not Set			
528127	Bus Trouble			
528128	False Code			
528129	GSM Trouble			
\$281210	IP Net Trbl			
\$280211	MS 1 Trouble			
\$280212	MS 2 Trouble			
\$280213	MS 3 Trouble			



Quick Keys	Parameter	Default	Range	
\$281 8	Arm/Disarm			
	Set arming/disarming parameters.			
528130	User			
528132	Automatic			
\$2 818	Remote			
528134	Force Arm			
\$2 8135	Quick Arm			
528186	Keyswitch			
528137	Auto Arm Fail			
52814	Zones			
	Set zone-related parameters.			
528140	By Zone			
528142	Zone Lost			
528143	Soak Fail			
528144	Self Test			
\$2 815	Accessories			
	Edit parameters for system p	peripheral de	vices/accessories.	
\$2 8160	Keypad			
528162	Zone Expander			
5281 68	Util. Output			
528166	Voice Module			
528168	WL Expander			
\$2 8069	Bus Expander			



Quick Keys	Parameter	Default	Range
5281 6	Miscellaneous		
	Edit codes and other miscellaneous parameters		
528160	Enter Prog.		
528162	Exit Prog.		
528166	MS Periodic Test		
528164	Call Back		
528166	System Reset		
528166	Abort Alarm		
528167	Listen In		
528168	MS Polling		
528169	Cancel Rprt.		
5280610	Walk test		
5280611	Exit Error		
5280612	Fail Cloud		
5280613	Ent. Serv. Mode		
5280614	Ex. Serv. Mode		
5282	Delete All		
	Clears all codes (reverts to factory defaults)		



⑤ Configuration SW

Configure the following parameters for communication between the Configuration Software and the system:

- Security
- Call Back Phones
- Controls
- Gateway
- Modem Protocol

Communication → Configuration SW → Security

Quick Keys	Parameter	Default	Range	
\$31	Security			
	Enables you to set parameters for remote communication between the technician and the system using the Configuration Software			
\$3 0	Access Code	5678		
	Enables you to define an up-to six-alpha-numeric-character installation access code. In order to enable communication between the alarm company and the system the same access code must subsequently be entered into the corresponding account profile created for the installation in the Configuration Software. For successful communication, the access code along with the ID code must match between the Configuration Software and the system.			
5312	Remote ID	0001		
	Defines an ID code that serves as an extension of the access code. In order to enable communication between the alarm company and the installation, the same remote ID code must be entered into the account profile in the Configuration Software. For successful communication, the ID code along with the access code must match between the Configuration Software and the main panel. Dealers often use the customer's monitoring station account number for the ID code, but you can use any 4-digit code unique to the installation.			
5318	MS Lock	000000		
	MS Lock is a security function used in conjunction with the Configuration Software. It provides greater proprietary security when viewing monitoring station parameters.			



Quick Keys	Parameter	Default	Range
	The same 6-digit code, which will be stored in the panel, must be entered into		
	the corresponding account profile created for the installation in the		
	Configuration Software.		
	If there is no match between the MS Lock code defined in the main panel and		
	the MS Lock code defined in the Configuration Software, the installer will		
	not have permission to change the following monitoring station parameters		
	from the Configuration Software:		
	MS Lock, Installer Code, MS IP Port, MS IP Address, MS Phone, Default Enable, MS Account, MS Format, MS Channel, MS Backup, MS Enable,		
	Remote ID, Access Code.		

Communication → Configuration SW → Call Back Phones

Quick Keys	Parameter	Default	Range	
532	Call Back Phones			
	Define three numbers that the panel can call to perform Configuration			
	Software (CS) communication. If no numbers have been defined, a call back			
	can be performed to any phone. The installer will enter a phone number			
	when establishing communication to the panel. If at least one number was			
	defined, it will be the only number that the call back can be established to.			
	When the CS establishes communication to the panel, it sends the panel its			
	calling phone number. (This number needs to be defined as My Number			
	under the GSM Communication menu in the CS.)			
	If the panel identifies one of the numbers as one of the numbers predefined			
	in the panel, the call will hang up and the panel will call back to that same			
	number.			

Communication \rightarrow Configuration SW \rightarrow Controls

NO: Call Back is disabled.

Quick Keys	Parameter	Default	Range
533	Control		
5330	Call Back	Yes	Yes/No
	The Call Back feature requires the system to call back to a pre-programmed telephone number to which the alarm company's Configuration Software computer is installed. This provides more security for remote operations using the Configuration Software. YES: Call Back is enabled.		



Quick Keys	Parameter	Default	Range
5332	User Initiated Call	Yes	Yes/No

YES: For a remote Configuration Software session to take place, the Grand Master must first enter specific keypad commands in the User Functions mode.

NO: Configuration Software operations are possible without requiring the user's participation.

Communication → Configuration SW → Gateway

Quick Keys	Parameter	Default	Range
534	IP Gateway		
	The IP and port address of the configuration's software PC. If you have a router connected to the PC of the Configuration Software, then you should enter the IP of the router. This definition will be used when there is a request to create a remote connection from the panel to the Configuration Software. The connection can be done over IP or GPRS.		
	Note In the configuration software, under Communication → Configurat GPRS , enter the IP address of the PC that the software is installed in		
5340	IP Address		
5342	IP Port		

Communication → Configuration SW → Modem Protocol

2 BELL103

Quick Keys	Parameter	Default	Range
\$3\$	Modem Protocol		
	The protocol of the router (modem) connected to the PC of the Configuration Software. This protocol will be used when there is a request to create a remote connection from the panel to the Configuration Software. • V21		



⑤ Follow Me

In addition to reporting to the monitoring station, the Follow-Me feature enables reporting system events to pre-defined follow me user destinations using a voice message, SMS message or E-mail. Up to 64 Follow Me destinations can be defined in the system. The following FM parameters can be defined:

- Define FM
- Controls
- Parameters

Note

If FM is enabled and no voice module is installed then "beeps" will be sent instead of messages.

Communication → Follow Me → Define FM

Quick Keys	Parameter	Default	Range
\$41	Define FM		
	Up to 64 Follow Me destinations can be defined in the system. Select a follow destination from the list		
\$4000	Report Type		
	Defines the type of reporting events to a Follow Me destination. NOTE: ❖ = FM number		
\$40 0 00	Voice		
	Demont to fallow men will	L. J	l th . CCM

Report to follow me will be done by voice message thorough the GSM network. Enter the telephone number including area code or special letters for Follow Me defined as SMS or Voice.

Reporting events by Voice can be established through different channels. The optional channels depend on the hardware installed in the system. Select the required channel as follows:

- O PSTN/GSM:
- **Q** GSM/PSTN:
- **3** PSTN Only:
- **4 GSM Only**: The outgoing calls are executed through the GSM audio channel only.



Quick Keys	Parameter	Default	Range	
\$ 4000	EMAIL			
		ill be done by e-mail thorough		
	depending which modules are installed). Each e-mail contains information including the system label. Event type and time. Enter the e-mail address			
	for Follow Me destinati		er the e-mail addi	ress
		M) : The system checks for the	e availability of t	he IP
	network. During regular operation, emails will be sent using the IP network			
		n the IP network, the email is		
	network.			
		I/IP): The system checks for the	•	
		uring regular operation moden n case of trouble, the email is		ent
	network.	if case of trouble, the entail is	routed to the fr	
	3 IP Only: The report	is executed through the IP ne	twork only	
	_	M Only): The report is execu	-	
	GPRS/GSM network on			
\$ 4 0 0 03	SMS			
	-	ill be done by SMS. Each even	~	
	_	he system label, event type ar		9
\$4 12	Partition	iding area code or special lette	ers.	
9 9 0 0 0			ntod to the Fallow	M.
	number.	om which events will be repor	rted to the Follov	v ivie
\$41\$3	Events			
		ation can be assigned with its	l own set of events	S.
		will be reported to each Follo		
	Event	Description		Default
	①Alarms			
	● Intruder	Intruder alarm in the system		Yes
	2 Fire	Fire alarm in the system		Yes
	3 Emergency	Emergency alarm in the syste	m	Yes
	4 Panic (S.O.S)	A panic alarm in the system		Yes
	6 Tamper	Any tamper alarm in the syste	em	No
	6 Duress Alarm	Duress alarm in the system fr	om user xx	Yes
	⑦ Confirmed alarm	Confirmed alarm indication		No



Quick Keys

Parameter	Default Range	
②Arm/Disarm		
1 Arm	Arming operation has been performed in the system	No
2 Disarm	Disarming operation has been performed in the system	No
③Troubles		
● False Code	After three unsuccessful attempts of entering an incorrect code.	No
0 2 Main Low Battery	Low battery indication from the ProSYS Plus main panel (below 11V)	No
0 3 Wireless Low Battery	Low battery indication from any wireless device in the system	No
04 Jamming	Jamming indication in the system	No
O S WL Lost	Wireless device lost. When no supervision signal is received from a wireless device	No
0 6 AC Off	Interruption in the source of the main AC power. This activation will follow the delay time predefined in the AC Loss Delay timer	No
0 7 Bell Trouble	Bell trouble in the system	
0 8 Bus Trouble	Bus trouble in the system	
09 Siren low Battery	Low battery indication from any sounder in the system	
0 O PSTN Trouble	PSTN lost event. If PSTN Loss Delay time period is defined, the message will be sent after the delay time	No
00 IP Network	Communication trouble with the IP network.	No
④ GSM		
● GSM Trouble	General GSM trouble (Network availability, Network Quality, PIN code error, Module communication, GPRS password, GPRS IP fault, GPRS Connection, PUK code fault	No
2 SIM Trouble	Any trouble with the SIM card	No
SIM Expire	Report to Follow Me will be established 30 days before the SIM Expiration Time defined for a prepaid SIM card.	No



Quick Keys	Parameter	Default Range	
	◆ SIM Credit	An automatic SMS credit message (or any other message) received from the provider's number predefined in SMS Receive Phone will be transferred to the Follow Me number	No
	⑤ Environmental		
	• Gas Alert	Gas (natural gas) alert from a zone defined a Gas detector	No
	2 Flood Alert	Flood alert from a zone defined as flood type	No
	3 CO Alert	CO (Carbon Monoxide) alert from a zone defined a CO detector	No
	4 High Temperature	High Temperature alert from a zone defined a Temperature detector	No
	5 Low Temperature	Low Temperature alert from a zone defined a Temperature detector	No
	6 Technical	Alert from the zone defined as Technical	No
	6 Miscellaneous		
	Zone Bypass	Zone has been bypassed	No
	2 Periodic test	Follow Me test message will be established following the time defined in the Periodic Test parameter under the MS parameters	No
	3 Remote programming	System is in remote installation mode	No



Quick Keys	Parameter	Default	Range
\$ 4\$4	Restore Events		

Choose the restore events that will be reported to each Follow Me destination.

destination.		
Event	Description	Defaul
① Alarms		
⊙ 	Intruder alarm in the system restored	Yes
00 Tamper	Tamper alarm in the system restored	No
② Troubles		
● ● Main Low Battery	Low battery indication from the ProSYS Plus main panel restored	No
0 2 WL Low Battery	Low battery indication from any wireless device in the system restored	No
0 3 Jamming	Jamming indication in the system restored	No
04 WL Lost	Wireless device lost restored	No
⊙ ⊙ AC Off	Interruption in the source of the main AC power restored	No
06 Bell Trouble	Bell trouble restored	
00 Bus trouble	Bus trouble restored	
⊙ Siren low Battery trouble	Siren low Battery trouble restored	
00 PSTN Trouble	PSTN lost event restored	No
10 IP Network	Communication trouble in the IP restored	No
3 GSM		
GSM Trouble	General GSM trouble restored	No
4 Environmental		
Gas Alert	Gas Alert restored	No
2 Flood Alert	Flood Alert restored	No
3 CO Alert	CO Alert restored	No
4 High Temperature	High Temperature Alert restored	No
	Low Temperature Alert restored	No
6 Technical	Technical Alert restored	No
	•	



Quick Keys	Parameter	Default	Range
\$40 \$	Remote Control		Yes/No
\$40 \$ 0	Remote Listen	No	Yes/No
	Enables the user of the Follotalk operation with the prem		ote listen and
\$ 40\$8 2	Remote program	No	Yes/No
	Enables the user of the Follow Me phone to enter the remote operation menu and perform all available programming options. For more details see the ProSYS Plus User Manual.		

Communication → Follow Me → Controls

Quick Keys	Parameter	Default	Range	
\$42	Controls	Controls		
	Programmable controls rela	ted to Follow Me operation		
\$420	Disarm Stop Follow Me	No	Yes/No	
	tamper NO: Follow me report for a	YES: No follow me report during partial (Stay) arming for alarm or tamper NO: Follow me report for alarm or tamper will be established during partial (Stay) arming (default).		
5422	Disable Report at Stay	No	Yes/No	
	YES: No follow me report during partial (Stay) or Group arming for alarm or tamper NO: Follow Me report for alarm or tamper will be established during partial (Stay) arming.			



Communication → Follow Me → Parameters

Quick Keys	Parameter	Default	Range	
543	Parameters			
	Allows to program parame	eters related to operation with t	the Follow Me	
\$430	Follow Me Retries	03	01—15	
	Edit the number of times the	he Follow Me phone number is	redialed	
5432	Voice Message	01	01-05	
	Recurrence			
		Edit the number of times a voice message repeats itself when establishing a call to a Follow Me number		
5438	Follow Me Periodic		(see Periodic	
	Test		Test, page 171).	
	Set the time period that the system will automatically establish communication to a Follow Me destination defined with the Periodic Test event (see <i>Periodic Test, page 171</i>).			

§ Cloud

Define the following parameters for Cloud communication:

Communication → Cloud

Quick Keys	Parameter	Default	Range
\$\$	Cloud		
	Define here the server settings for communication with the ProSYS Plus system. NOTE: For Cloud connectivity, Cloud must be enabled (default). To enable/disable Cloud connectivity go to: 1)System → 2)Controls → 3)Communication → 4)Cloud Enable and then select Y (yes) to enable or N (no) to disable.		
\$ \$	IP Address	www.riscocloud.com	
	The IP address or server name. If the ProSYS Plus system is connected to the RISCO Cloud for self-monitoring, then use: riscocloud.com. Otherwise enter the IP address or name where the private Cloud server is located.		
SS2	IP Port	33000	
	The server port address		



Quick Keys	Parameter	Default	Range
\$\$	Password	AAAAAA	Up to 6 characters (case sensitive)
	1 7 1	erver access. This password shed in the server under the Cont	
\$\$4	Channel		
	Communication with the Cloud can be established through an IP or GSM channel, depending on your system installed hardware.		

Utilizing the standard single-channel communication modules, communication with the Cloud can be established through an IP or GSM channel, depending on the installed system hardware.

Utilizing the generation multi-socket communication modules, communication with the Cloud can be established with either the IP or GSM 2G / 3G modules.

Available Communication Options:

- IP Only: Communication is executed through the IP network only.
- GSM (or GPRS) Only: Communication is executed through the GSM or GPRS network only



Quick Keys	Parameter	Default	Range		
\$\$6	Controls		01–05		
	The ProSYS Plus supports	parallel channel reporting (via	IP, GPRS, GSM,		
		monitoring station and FM wh			
		Cloud mode. Use this setting to decide if the panel reports events to the			
	_	monitoring station or Follow-Me in parallel to the report to the Cloud or			
	the Cloud is not functionir	communication between the I	2roSYS Plus and		
		ng. node is functioning, the monit	earing station		
		d under MS menu (see <i>Monito</i>			
	163 and Follow Me, page 18		ring outlon, page		
	MS Call All				
	YES: Parallel reporting to t	the MS can be established via b	ooth the Cloud		
	YES: Parallel reporting to the MS can be established via both the Cloud and non-Cloud channels.				
	NO: Communication to the Monitoring station via the non-Cloud channels				
	can be established only in	backup mode (when ProSYS P	lus – Cloud		
	connection is down)		1		
	2 FM Call All				
	YES: Parallel reporting to the Follow Me destination can be established via				
	both the Cloud and non-Cloud channels.				
		NO: Communication to the Follow Me destination via the non-Cloud			
	channels can be established only in backup mode (when ProSYS Plus –				
	Cloud connection is down		Ī		
	3 App Arm				
	Yes: Enables remote system arming from user app and Web user interface				
		n arming from user app and W	√eb user interface		
	4 App Disarm				
	YES: Enables remote system disarming from user app, Web user interface				
.		m disarming from user app, W	leb user interface		
\$ 6	IP Channel				
	The channel used for IP (if	required)			
	• Via LAN				
	❷ Via WiFi (future use)				



Audio

The following Audio menus are used to define voice message parameters:

- Messages
- Local Announcements

Note

This menu will be displayed only if a Voice module had been assigned to the system

60 Messages

Audio → Messages

Quick Keys	Parameter	Default	Range
60	Messages		

Use this menu to customize the spoken messages of Zones, Partitions, Outputs, Macro's and Opening Message that the Voice module announces when you access the system from a remote telephone or you hear on the premises. There are 2 ways to customize a voice message:

1. **User recorded**: The **①** Common Message and the **②** Library Messages are user recorded messages. The recording can be done either from the microphone located on the voice module expander or from a microphone located on the Listen-In & Speak unit.

Note

The definition of which microphone to use is determined by dip switch 4 located on the voice module board.

- 2. **Assign messages**: The Zone / Partition/ Output and Macro messages can be assigned with pre-recorded messages. Each message can be comprised of up to 4 words. Each word has been pre-recorded and assigned a number. When comprising a message the installer will enter the number of each word into the message sequence. The system recognizes the numbers and sounds the words assigned to those numbers. For example: For the system to sound "Top Floor Guest Bedroom", you should enter the following sequence: 119 050 061 019. The table in *Appendix E*:
- 3. *Library Voice* Messages, *page* 234 displays the directory of the pre-recorded programming descriptors, each is identified by a 3 digit number.

Note

The first five descriptors allow for customized words specific for the client's needs. The customized words are the Library message on option **6**After recording or assigning a message you can verify messages by selecting [1] Play option in each category.



600	Common Message	
	User-defined identification of the premises, for example, the address and/or telephone number of the premises. This message is up to 10 seconds long. The default Common message is "Hello, this is your security system calling"	
602	Zone	
	User-defined name for the zone in which the event occurred message can be up to 2 seconds long, and is only announced announcement message concerns a zone.	
618	Partition	
	User-defined name for the partition in which the event occu message can be up to 2 seconds long.	rred. The partition
604	Output	
	Assign descriptive and distinguishing voice messages for ut	ility outputs
606	Macro	
	Assigning a voice message to a macro simplifies the meanin operation for the user.	g of the macro
606	Library	
	User-defined messages for customer needs. Each library meself-recorded and can be up to 2 seconds long.	ssage is



62 Local Announcements

Audio → Local Announcements

Quick keys	Parameter	Default	Range
62	Local Announcement		

Upon event occurrence, the system can announce the security situation to occupants of the premises by sounding a local announcement message from the add-on Listen-In & Speak unit. This announcement message can be enabled or disabled (by toggling to Y or N) per event. Enable or disable each of the following message announcements according to your customer request.

Announcement	Description	Default
00 Intruder alarm	Intruder alarm	Yes
0 2 Fire alarm	Fire alarm	Yes
0 8 Emergency	Emergency (medical) alarm	Yes
0 4 Panic alarm	Panic alarm	Yes
O G Tamper alarm	Tamper alarm	Yes
⊙ ⊙ Environmental alert	Flood, Gas, CO or Temperature alert	Yes
⊙ ⊘ Away arm	System/Partition armed in Away (Full) arm	Yes
0 3 Stay arm	System/Partition armed in Stay(Partial) arm	Yes
0 9 Disarm	System/Partition disarmed	Yes
10 Audible Status	Status heard when pressing the status button on the keypad/remote control	Yes
O O Entry / Exit	System in exit or entry delay	Yes
Q Auto arm	System in auto arm process	Yes
0 6 Output	Output activated or deactivated	No
0 4 Walk test	Walk test. The ProSYS Plus will sound the zone number and description	Yes



② Install

The following enable adding, removing or testing accessories in the system:

- Bus Devices
- Wireless Device

②① Bus Devices

The Bus Device sub-menu provides access to the following:

- Automatic
- Manual
- Testing

Install → Bus Devices → Automatic

EN 50131-3 Note

The automatic setting/unsetting function (Auto Settings) is not in compliance with EN50131-3 $\,$

Quick Keys	Parameter	Default	Range
700	Automatic		
	in order to recognize, enable configuration for all bus dev	erform an automatic "Auto Setti e (allocate), and perform on-the- ices connected in the system. So ales & Bus Devices, page 53 and E	-fly ee <i>Auto-Setting</i>



Install → Bus Devices → Manual

Quick Keys	Parameter	Default	Range
702	Manual		
	Use this option to manually a parameters.	dd or remove bus devices and	set
	switch" programmedNon-partitioned systems ar	ice's physical ID number has l re regarded as Partition 1. pads can be selectively assign	
70200	Keypads (wired)		
	See Manually Allocating & Con Wired Keypads, page 57.	figuring other Modules and Bus	Devices →
70202	Zone Expander		
	See Manually Allocating & Con Zone Expanders, page 58.	figuring other Modules and Bus	Devices →
70208	Utility Output		
	See Manually Allocating & Con Utility Output Modules, page 58		Devices →
70204	Power Supply		
	See Manually Allocating & Con Power Supply Modules, page 59.		Devices →
70206	Wireless Expander		
	See Manually Allocating & Con Wireless Expanders, page 59.	figuring other Modules and Bus	Devices →
70206	Proximity Key Reader		
	See Manually Allocating & Con Proximity Key Readers, page 59.		Devices →
70200	Voice Module		
	See Manually Allocating & Con Voice Module, page 60.	figuring other Modules and Bus	Devices →



Quick Keys	Parameter	Default	Range	
70208	Sounder			
	See Manually Allocating & Con Sounders (Sirens), page 60.	figuring other Modules and Bus	Devices →	
70209	BUS Zones			
	Bus zones (bus detectors) can Expander (BZE).	be wired to the main bus or to	a Bus Zone	
	See Manually Allocating & Con Bus Zones (Bus Detectors), page		Devices →	
	For additional details refer to detector.	the instructions supplied with	each bus	
	input on board for connection selecting the iWISE Bus detect "Link Bus Detector to zone xx"	WISE Bus detector and Elegant keypad have an additional 2-termina on board for connection to a relay detector [optional]. When ing the iWISE Bus detector the following question will appear: Bus Detector to zone xx? "Selecting Yes will assign the input as the cutive zone of the selected iWISE Bus detector.		
⑦①② 0 0	GSM			
	See Manually Allocating & Con GSM Modules, page 55.	figuring other Modules and Bus	Devices →	
71200	IP			
	See Manually Allocating & Con IP Modules, page 56.	figuring other Modules and Bus	Devices →	
70202	Modem (PSTN)			
	See Manually Allocating & Con PSTN Modem Module, page 56.	figuring other Modules and Bus	Devices →	
71206	Bus Expander			
	See Manually Allocating & Con Bus Zone Expander, page 61.	figuring other Modules and Bus	Devices →	
70204	LRT (Long Range			
	Radio Transmitter)			
See Manually Allocating & Configuring other Modules and Bus Device Long-Range Radio Transmitter Module, page 56.		Devices →		



Install → Bus Devices → Testing

Quick Keys	Parameter	Default	Range
703	Testing		
	The Testing menu enables perfo Setting" bus scan of the system.	rming a bus scan and a mar	nual "Auto
7030	Bus Test		
	A Bus Test checks each installed bus device and communication meansure adequate connectivity quality. A result of 97% or less than may mean that there are bus connection problems. ➤ To perform a Bus Test: 1. From the installer Programming menu, go to: 7 → 1 → 3 → 1 (→Bus Device → Testing → Bus Test); BUS TEST displays for a seconds until the "BUS COM QUALITY" results display.		
	2. Scroll to view the results for If a result is not adequate, or positions, and then repeat to GSM:001=100%	heck physical connections a	and DIP switch

EXPLANATION:

- GSM is the bus device/communication module description
- 001 is the bus device/communication module index number
- 100% is the result

Install → Bus Devices → Testing → Bus Scan (Auto Setting)

metall / Bus bevices / Testing / Bus ocall (Auto octally)				
Quick Keys	Parameter	Default	Range	
7032	Bus Scan (Auto Setting)			
The Bus Scan is the same as the Auto Setting scan that is run at initial system start-up. The Bus Scan is typically used, for example, after manually allocating devices.				
	 To perform a bus scan: Press OK (✓); BUS SCANNING displays during the scan, then the results display (the connected communication modules and bus devices that were found). Press OK to enable the first communication module/bus device displayed, and keep pressing OK to progress through its parameter configuration screens (which you can configure now or later during installer programming). 			



Quick Keys Parameter	Default	Range	
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 Press OK again to advance to the next communication module/bus device found, and again enable/configure for all the remaining ones found. When BUS Device 1) Automatic displays again at the keypad and the panel beeps,

it indicates you've finished going through all the recognized modules/devices.

NOTE: Verify that all the system-connected modules and devices display in the results, and that they all have all been enabled.

4. Now you can perform a Bus Test to ensure good communication between the bus devices and the main panel (see *Performing a Bus Test, page 54*).

Describing Auto-Setting Results

At the keypad, the results of a bus scan first show the connected communication modules. The next results displayed are for connected keypads, expansion/voice modules and bus detectors. Results display as per this example: (3:02:01) T=LCD

EXPLANATION:

NOTE: Dashes ("-") appear instead of digits when a parameter is not relevant, for example, for communication modules as they are on-board the PCB, and not on a bus line.

- 3 is the bus line it is connected to
- **02** is the expander ID
- 01 is its sequential, installer-set physical ID number for bus devices
 Note that communication modules will always appear as 01.
- T is the type, which, in this example is LCD

@ Wireless Devices

The following parameters can be defined for wireless devices:

- RX Calibration
- Allocation
- Delete

Note

Allocation of wireless devices can be performed only if a wireless expander module has been defined in the system.



Install → Wireless Devices → RX Calibration

Quick Keys	Parameter	Default	Range
720	RX Calibration		
	See Measuring Background Noise Let	vel and Defining the Thresh	old Limit,

Install → Wireless Devices → Allocation

Quick keys	Parameter	Default	Range
722	Allocation		
	See Step 4: Allocating Wireless Zone	s, page 62.	
7220	By RF		
	See Allocating Wireless Devices via l	RF Transmission, page 62.	
7222	By Code		
	See Allocating Wireless Devices via Code, page 64.		

Install → Wireless Devices → Delete

Quick keys	Parameter	Default	Range
728	Delete		
	Use this sub-menu to delete the allocation of a wireless device.		

® Devices

Manually configure and modify installed system devices:

- Keypad
- Keyfob
- Sounder
- Proximity Key Reader
- Power Supply



®① Keypad

Devices → Keypad

Quick keys	Parameter	Default	Range	
® ①	Keypad			
	NOTE: ② = keypad number Select a keypad, press OK . The following can be defined for each keypa			
®⊕≎●	®⊕ ≎• Label			
	Enter a label identifying the keypa	d in the system.		
8002	Partition			
	Enter a partition (0132) for the ke	eypad		
®⊕⊕	Masking			
	Specifies the partitions that are connumber to clear it. Enter the number	•	eypad. Enter a	
®⊕≎4	Controls			
	Define these parameters:			
	● Emergency (Y/N) – to enable (Y) or disable (N) the keypad's			
	emergency keys per keypad.			
	2 Multi view (Bus)			
	YES: The keypad will display the	<u>-</u>		
	NO: The keypad will display only the status of its partition.			
	③ Exit beeps (for a 2-Way Slim keypad with bypass)— beeps during the			
	exit time in stay arming.			
	● Supervision (Y/N) – to enable (Y) or disable (N) supervision for a wireless keypad			
®⊕≎6	Serial Number			
	Displays the identifying 11-digit n	ımber of the allocated ke	vnad	
®⊕≎6	Function Key (2-way)	l l l l l l l l l l l l l l l l l l l)	
	j	s function key for Utility (Output:	
	 Disable – Disables the keypad's function key for Utility Output: Panic – Uses the keypad's function key to send a panic alarm 			
	MS Listen & Talk – Uses the keypad's function key to establish 2-way			
	"Listen & Talk" communication with the monitoring station.			
®⊕≎0	UO Key 1	_		
Assign a utility output to be activated by a long press			nction key 1	
8008	UO Key 2			
L	Assign a utility output to be active	ited by a long press on fu	nction key 2	



Quick keys	Parameter	Default	Range
®⊕≎9	UO Key 3		
-	Assign a utility output to be activated by a long press on function key 3		

Assign a utility output to be activated by a long press on function key s

82 Keyfob

Devices → Keyfob

Quick keys	Parameter	Default	Range
82	Keyfob		

Options for the 1-Way Keyfob:

The keyfob menu defines the operation of the wireless buttons keys. Each keyfob consists of 4 buttons, and each button can be programmed to a different mode of operation.

- The first step in the menu is to select a user. Each user has a single keyfob. When selected press OK (✓).
- 2. Select a button (1-4) and define the button operation according to the options below.

Note

Each key has its own list of options. The list varies between the keys.

The available modes of operation are:

- **O** None: Button disabled.
- **1 Arm**: The button is used for away (full) arming of the assigned partitions.
- **2 Disarm:** The button is used for disarming its assigned partitions.
- **3 Stay:** The button is used for stay (home) arming of the assigned partitions.
- **4 Group:** The button is used for Group arming.
- **6** UO: The button is used to operate a single utility output
- **6** Panic: The button is used to send a panic alarm.

Note

Stay (partial) arming or Away (full) arming can be defined as instant or delayed (Exit Delay).

The available options for each button are:

Button 1 (🖓): None, Away. Stay, Group, UO

Button 2 (): None, Disarm, UO

Button 3: None, Away. Stay, Group, UO, Panic

Button 4: None, Away. Stay, Group, UO



Quick keys	Parameter	Default	Range		
	Options for 2-Way Keyfob				
	The available programmable functions for the buttons: • Label				
	Serial No				
	6 Masking: Specifies the partitions that are controlled by the device.				
	⊘ Controls → Panic Enable: Disable/enable panic alarm button				
	PIN code (for arming in high-security mode)				
	9 UO Key 1: Used to operate a single utility output				
	10 UO Key 2 : Used to operate a single utility output				
	1 UO Key 3: Used to operate a sing	gle utility output			

83 Sounder

Define the following for an external siren that is connected to the ProSYS Plus as a bus accessory:

- Parameter
- Bus Sounders
- 2-Way WL Sounders

Note

Access to this sub-menu requires that a sounder device is installed on your site.

Device → Sounder → Parameter

Quick Keys	Parameter	Default	Range	
831	Parameters			
	Use this menu to define all parameters of the siren. Note that some parameters are only relevant for specific siren models. Select a sounder and press OK .			

Device → Sounder → Parameter → Bus Sounders

Quick Keys	Parameter	Default	Range	
830≎0	Label			
	As assign the sounder a label (description)			
831≎2	Masking			
	Use this menu to define parameters relating to masking			



Quick Keys	Parameter	Default	Range
831≎3	Strobe		
	Use this menu to define parameters relating to the sounder strobe		
830≎30	Strobe Control	Follow Bell	
	 Defines the strobe operation mode. ALWAYS OFF - The strobe is deactivated. FOLLOW BELL — The strobe is activated when the siren bell is triggered. FOLLOW ALARM — The strobe is activated when an alarm occurs in the selected siren's partitions. 		
831332	Strobe Blink	40	
	Defines the number of times that the strobe will blink in a minute. 1 20 [Times/Min] 2 30 [Times/Min] 3 40 [Times/Min] 5 10 [Times/Min] 6 10 [Times/Min]		
830≎36	Arm Squawk/Flash	01	01-20 (seconds)
	The time that the strobe will blink Note If the siren's squawk strobe is defi ⑦ ① ② ② ③ page 195) this parameter.	ined as NO (see the add/d	
831 ☆ 4	Siren LED	Follow Arm	
	 Defines the operation mode of the Status LED2. ALWAYS ON — The status LED2 is always on. ALWAYS OFF — The status LED2 is deactivated. FOLLOW ARM — The status LED2 is activated when any of the siren selected partition is armed (Away or Stay mode). FOLLOW ALARM - The status LED 2 is activated after any alarm condition. ALTERNATE (only for Lumin8) — The status LEDs will constantly alternate. FLASH (only for Lumin8) — The status LEDs will constantly flash. 		



Quick Keys	Parameter	Default	Range	
83105	Battery Load Test	Every 24 Hours		
	Enables to set the time period that the ProSYS Plus will automatically generate a Load test on NEVER: The system will not set a battery load test EVERY 24 HOURS			
83106	Proximity Level Response	3	0-9 (seconds)	
	(Only for ProSound) Defines the time (seconds) for which a proximity violation must exist before the siren triggers an anti-approach alarm. The option 0 indicates that the proximity is deactivated.			
830≎7	Volume	9	0—9 (seconds)	
	Sets the bus siren's internal speaker Alarm volume. The volume ranges between 0 (silent) to 9 (max volume). After setting/changing the volume, sound will be emitted by the internal speaker to enable evaluation of the selected volume level.			
83008	Lamp			
	Use this menu to define parameter	ers of the sounder externa	Lamp.	
831≎80	Type			
	 Defines the way the external lamp will be operated. ALWAYS ON-The lamp is always on. ALWAYS OFF-The lamp is always off. SCHEDULER- The lamp operates according to the time defined under the Sounder Lamp menu (Quick Key: § ② ②). 			
831082	Brightness	05	(01-10%)	
	Used to set the brightness level of	the external lamp.		
83009	Power Source	SAB	SAB/SCB	
	 (Only for Lumin8) Used to define the SAB or SCB power source mode of the LuMIN8: SAB—Power supply for the sounder will be drawn from the control panel. SCB—Power supply for the sounder will be drawn from the sounder's rechargeable battery. 			



Quick Keys	Parameter	Default	Range	
830≎00	Siren Current	Standard	Standard/Low	
	(Only for Lumin8)			
	Set the sounder current mode.			
	● LOW – The sounder output w	ill be reduced to 106dB 15	50mA.	
	2 STANDARD - The sounder or	utput will be 112dB 350m	A (assuming	
	single piezo head).			
830 0 00	Alarm Sound			
	(Only for Lumin8)			
	Set the type of the alarm sound. Specify which of four alarm sounds is associated with this siren.			
831012	Serial Number			
	(Only for Lumin8)			
	The identifying 11-digit number o	f the sounder (display on	ly)	
831013	Supervision			
	(Only for Lumin8)			
	Determines if this zone will be supervised by the system expander			
	according to the time defined under the timer RX Supervision (see			
	RX Supervise, page 79).			

Device → Sounder → Parameter → 2-Way WL Sounders

Quick Keys	Parameter	Default	Range
831 ≎00	Label		
	You can define a label(nar	ne/description) for a sounde	r
831002	Strobe		
	Use this menu to define parameters relating to the sounder strobe		
8300020	Control	Follow Bell	
	Defines the strobe operation	on mode:	
	ALWAYS OFF - The str	robe is deactivated.	
	② FOLLOW BELL — The strobe is activated when the siren bell is triggered.		
	③ FOLLOW ALARM — The strobe is activated when an alarm occurs in the selected siren's partitions.		



Quick Keys	Parameter	Default	Range
8300022	Blink	40	
83020	Defines the number of tin 20 [Times/Min] 30 [Times/Min] 40 [Times/Min] 50 [Times/Min] 60 [Times/Min] Arm Squawk	nes that the strobe will blink 01 vill blink when the system is	01—20 (seconds)
		be is defined as NO (see <i>Sour</i>	nder, page 195),
831003	Volume		
	(silent) to 9 (maximum).	al speaker Alarm volume - ra After setting, sound will be e e evaluation of the selected v	mitted by the
831 0 03 0	Alarm	9	(1-9)
	General alarm volume		•
8310032	Squawk	9	(1-9)
	Squawk sound alarm		
8300038	Exit Entry	9	(1-9)
	Notification of system sta	tus in exit or entry delay.	1
830000	Serial No.		
	The identifying 11-digit n	number of the sounder (displ	ay only)
830 00	Supervision		
	Determines if this zone will be supervised by the system expander according to the time defined under the timer RX Supervise, page 79).		
832	Lamp Times		
	 Specify here the sounder lamp illumination duration. 1 Lamp Start - Specify here the start time for the sounder lamp to be activated. 2 Lamp Stop - Specify here the stop time for the sounder lamp to be deactivated. 		



8 Proximity Key Reader

Define or modify parameters of a Proximity Key Reader that can be connected to the ProSYS Plus as a bus accessory. Up to 64 PKR's can be connected to the system.

Note

Access to this sub-menu requires that a Proximity Key reader device is installed.

Devices → **Proximity Key Reader**

Quick keys	Parameter	Default	Range	
84≎0	Masking			
	 To specify the partitions that are/are not controlled by the specified PKR: Press OK (✓), scroll to select the PKR index number, and then press OK. Scroll to MASKING, and then press OK. Scroll through each block of partitions (32 partitions maximum—all enabled by default), and designate the partitions to mask (to not allow operation via the keypad) by entering a partition number to delete it (it will not display), or enter the number again to select it (it will display). When finished, press OK. 			
8442	Control			
	 Use this menu to define controls of the PKR. Scroll the list and toggle Y/N for each option (see page 194). INSTANT ARM? SHOW READY? SHOW ARM? SHOW STAY? SHOW BYPASS? When done press OK to save your settings. 			
8402	Label			
	Assign a descriptive label.			

8 Power Supply

Define or modify parameters of a power supply expansion module connected to the ProSYS Plus as a bus accessory. Up to 32 power supply expansion modules (1.5A or 3A) can be connected to the system (maximum 8 per bus line).



Devices → **Power Supply**

Quick Keys	Parameter	Default	Range		
85≎①	Masking				
	 Press OK () and then press Scroll to MAS Scroll through all enabled by not allow open number to del to select it (it is 	 and then press OK. 2) Scroll to MASKING, and then press OK. 3) Scroll through each block of partitions (32 partitions maximum—all enabled by default), and designate the partitions to mask (to not allow operation via the keypad) by entering a partition number to delete it (it will not display), or enter the number again to select it (it will display). 			
85≎2	Control				
	 To enable/disable the bell/loudspeaker for the power supply module: Press OK, scroll to select the power supply index number, and then press OK. Scroll to CONTROL, and then press OK. Toggle between Y (yes) or N (no) for enabling or disabling the power bell/loudspeaker, and then press OK. 				



© Exit

When exiting installer Programming menu, go to **0**) **Exit** and then press **OK** (\checkmark). Note that if exiting after programming in the installer Programming menu the very first time (at initial system configuration), perform the following procedure:

Exiting Installer Programming Menu

Exiting Installer Programming Menu after Initial System Programming

IMPORTANT: After you have finished programming all relevant parameters in the installer Programming menu **the first time – at the time of initial system setup,** you must then perform the following procedure to exit the installer Programming mode. Afterwards you can then program additional parameters as needed from the same menu, or from other installer menus.

> To exit installer Programming menu after initial system programming:

WARNING: In the main panel box/enclosure do not touch any AC electrical wiring to/from the mains fuse terminals nor the mains fuse terminals, as coming into contact with 230 VAC can result in electric shock and death.

- 1. With the main panel still powered up, carefully open the main panel box/enclosure.
- 2. At SW1 on the PCB, carefully set DIP switch 2 to OFF.
- 3. Close the main panel box/enclosure in order to prevent a front tamper alarm.
- 4. At the keypad, press **Exit** () repeatedly to return to the start of the current menu.
- 5. Press 0 to exit, toggle to Y to save all your programming settings, and then press OK (✓); TAMPER TESTING displays as the system checks for tamper trouble conditions.
- 6. If an alarm sounds and you want to quit with a current tamper trouble condition, press **Exit**, then toggle to **Y** (yes), and then press **OK**.
 - **NOTE:** If you select **N** (no), you will not be able to exit installer Programming mode until the tamper trouble condition has been restored to normal.



Subsequently Accessing & Exiting Installer Programming Menu

When you've finished programming in installer Programming menu at initial system setup and have already performed the procedure to exit the installer Programming menu, in order to access this menu again—or any other installer menus, make sure that DIP switch 2 remains in the OFF position—otherwise installer, sub-installer and Grand Master codes will reset to factory defaults.

When you finish subsequent programming, leave the DIP switch 2 in the OFF position.

NOTE: To again program parameters found in the installer Programming menu, another option is to do so from the Configuration Software.

Restoring Manufacturer's Programming Defaults

You can revert to manufacture defaults for all system parameters.

- > To restore the main panel to the manufacturer's defaults:
- From the installer Programming menu, select 1→ 5→ 2 (System→Setting→ Default Panel).
- 2. To restore the system labels to the manufacturer defaults (delete all labels), toggle to \mathbf{Y} (yes) and then press \mathbf{OK} (\checkmark) to confirm.
- 3. To revert to the default panel and keep existing labels, toggle to **N**, and then press **OK**.
 - **NOTE:** It may take a minute or two to process, but wait until SETTINGS: 2) DEFAULT PANEL displays.
- 4. To save your settings exit the Programming mode.



Defining Parameters – Additional Installer Menus

You can program additional system parameters in installer menus (other than the Programming menu):

Activities Menu

Activities parameters

Keypad Sound

Chime

Keypad Chime—Use the scroll buttons to turn the keypad's internal sounder ON or OFF for any function utilizing the chime.

Partition Chime—Use the scroll buttons to turn internal sounders ON or OFF for all keypads in the partition (for all functions utilizing the chime).

Buzzer ON/OFF—Use the scroll buttons to turn the keypad's internal buzzer ON or OFF during both Entry and Exit Delay time periods, and during all fire and intrusion alarms.

Advanced

Service Mode—Press **OK** to activate / deactivate the service mode, which silences alarms in order to enable battery replacement for detectors and accessories. For setting Service Mode parameters, see *Service Mode on page 171*.

MS Test — Press **OK** to initiate a test message to the monitoring station according to IMQ and EN50131 requirements.

Follow Me Menu

Follow Me parameters

Define - Press OK, and then scroll to a FM destination number (up to 64) to define

Destination – For the selected FM destination number, enter the Follow Me destination information, according to its type (voice message, SMS or E-mail), and then press **OK.** For more information, see *Follow Me, page 181*.

Label – For the selected FM destination number, scroll to enter (over the existing or default label) an identifying description, and then press **OK**.

Terminate Follow Me – A Follow Me destination can be terminated (deleted).

Test FM – For testing Follow Me reporting



View Menu

View parameters

Trouble – Scroll to view system troubles. Troubles may also be indicated by the power icon



() flashing on specific keypad models.

Alarm Memory – Displays the 5 most recent alarm conditions stored in the system

Partition Status – Scroll to view partition status and NR (not ready) zones in the system.

Note

- Pressing on the scroll keys from the normal operation mode displays the status of the partition to which the keypad is assigned
- For each user code, displays the status of all respective partitions assigned to that user

Zone Status – Scroll to view all system zones and their current status.

Service Information – Scroll to the following options:

Installer – View any previously entered service / installer information

System Version - View the version number and date of the installed system software

Serial Number - View the 11-digit serial number of the main panel

Panel ID – View the 15-digit panel ID number



Clock Menu

Clock parameters

Time & Date – To set the system time and date, scroll to each space and enter/re-enter the time and date definitions (required for all Scheduler programming – see below).

Scheduler

NOTE: For complete Scheduler and Vacation procedures, see the *ProSYS Plus User Manual*.

You can configure the following automated system operations according to schedules (and other criteria) that you define:

- Arming/disarming the system one-time only within the next 24 hours
- Up to 64 <u>re-occurring weekly schedules</u> for arming/disarming the system and/or activating/deactivating up to 4 UOs (utility outputs)
- Up to 99 <u>vacation schedules</u> for UO activation and system arming

One-Time: Define a one-time automatic arm/disarm of the system at a specific time within the next 24 hours.

Weekly Schedules: Define up to 64 weekly schedules for automatic arming/disarming and automatic activation/deactivation of utility outputs. Each schedule can be defined with up to 2 time intervals (2 separate start & stop times) per day. For automatic arming/disarming, you have the option to set a "user limitation" safeguard that prevents users that you define from disarming the system during time intervals that you specify.

Inactivity Timer (for Arm/Disarm option): If there is no detection from any of the zones in partitions with an automatic schedule (that has the Arm/Disarm option defined by the Grand Master with the Inactivity Timer set to ON), then those partitions will be automatically armed according to the Inactivity Timer parameter definition (see *Inactivity Timer on page 81*).

User Limitation (for the UO option): You can apply a "user limitation" mechanism to prevent selected users from disarming the system during 1 or 2 specified time intervals per day. By default users do not have a user limitation applied.

Vacation – To set up to 99 vacation schedules for automatic arming & UO activation (with respective dates/ times as well as partitions for arming)

Event Log Menu

Event Log parameters

View of up to 2000 system events. Each event displays with the date and time.

Scroll to an event number, and then press **OK** to view its details.

Notes

- The events memory cannot be erased
- To skip to blocks of 100 events backward or forward, use 👜 🛍 respectively



Maintenance Menu

Maintenance parameters

Walk Test – Test and evaluate the operation of selected zones in the system. A walk test is set for up to 60 minutes. During the last 5 minutes, the keypad used to activate the test will indicate that the test is about to end.

- Full Walk Test (areas activated) Displays the activated zones and type of detector
- Quick Walk Test (areas not activated Displays the non-activated zones.

Keypad Test – Activates the keypads and momentarily tests the keypad indicators.

Siren Test – Activates the alarm sound from each bus sounder, from the Bell terminals on the main board and activates utility outputs defined as Bell Trigger (③② ②②).

Strobe Test – Activates all strobes in connected bus sounders and activates utility output defined as Follow Strobe (③② ②3).

Wireless Test – For all allocated keyfobs, wireless zones, and wireless keypads:

Comm.Test – Displays the last measurement taken at the last transmission (last detection or last supervision signal) of the selected device. To receive the updated signal strength, activate the detector prior to performing the communication test. For successful communication, the strength of the signal should be higher than the noise threshold level as measured during calibration of the panel (see *Performing a Wireless Comm. Test for Measuring Signal Strength, page 70*).

Battery Test – Displays the last battery test results of the selected device taken at the last transmission. A confirmation message displays if the test was successful. In addition, you can activate the device.

Diagnostics

You can activate the following tests for system diagnosis:

- Main Battery Test Tests the level of the main panel's backup battery. Press **OK** to start the test; the result displays.
- Zone Resistance Tests the resistance and voltage level of the wired zones in the
 system. Press OK and then scroll to the zone to be tested. Press OK to toggle
 between viewing the resistance and voltage for the selected zone. Scroll to other
 zones to test as needed.
- Zone Expander Tests installed zone expanders. Press OK, scroll to the zone expander
 to test, and then press OK again. Now scroll to either view the results for
 DIAGNOSTICS or VERSION, and press OK; the corresponding information displays
- **Power supply** Tests the installed power supplied expanders and displays the relevant information for each power supply.
- Siren Tests installed bus sirens and displays information regarding each siren
 (depending on siren type). Press OK, scroll to the siren to test, and then press OK
 again. Now scroll to either view the results for DIAGNOSTICS or VERSION, and
 press OK; the corresponding information displays.
- **GSM module** Tests the following for the installed GSM module:



Maintenance parameters

- Signal (RSSI) Displays the signal level measured by the GSM module (0 = no signal, 5 = very high signal)
- ❖ Version Displays information regarding the GSM module version
- ❖ IMEI Displays the IMEI number of the GSM module. This number is used for identification of the ProSYS Plus at the RISCO IP Receiver when using GSM or GPRS communication
- IP Module Performs a diagnostic test for the following parameters of the plug in IP or IP module:
 - ❖ IP Address View the system's IP address
 - ❖ Version View the IP module's software version/date
 - MAC Address View the MAC address of the IP card. This number is used for identification of the system at the RISCO IP Receiver when using the IP communication module.
- WM Version Displays the selected wireless expansion module's software version/date
- Panel Version Displays the main panel (system) software version/date
- **Voice Version** Displays the voice module's software version/date
- Keypad Version Displays the selected keypad's software version/date
- LRT Displays the LRT module software version and its active protocol
- SEM Version Displays the SEM version/date

Macro Menu

Macro parameters

Test a selected macro, if it has been pre-programmed. Scroll to select the respective macro (**A**-**D**), and then press **OK**. For more information on programming macros, see the *ProSYS Plus User Manual*..

Stand Alone Keyfob Menu

Stand Alone Keyfob parameters

Standalone keyfobs are used for gate control (with a dedicated wireless expander module). Scroll to select the wireless expander module used for the standalone keyfobs/gate control, and then press **OK**. For the respective keyfobs supported, select from the following parameters to configure. For more information on standalone keyfobs, see the ProSYS Plus User Manual.

- New Keyfob To allocate a new keyfob
- Delete Keyfob To delete the allocation of a keyfob
- Delete All To delete all keyfob allocations (the keyfobs using the dedicated wireless expansion module for gate control only)
- UO Buttons To change the keyfob buttons that control utility outputs



Testing the System

It is important to fully test the system. Here are typical, recommended system tests that should be performed at system installation, and subsequently as needed:

- ✓ **Bus Test:** To test bus communication quality. See *Performing a Bus Test, page 54*.
- ✓ Background noise-level threshold & calibration for wireless devices: See Measuring Background Noise Level and Defining the Threshold Limit, page 69.
- ✓ Wireless Communication Test: For testing the signal strength of wireless devices. See Performing a Wireless Comm. Test for Measuring Signal Strength, page 70.
- ✓ Walk Test (for zones): Arm the system, and then enter the protected area in order to trigger alarm events at each detector to ensure operability. See the installer Maintenance menu → Walk test, page 213.
- ✓ Monitoring Station Test: See View Menu → Advanced → MS Test, page 211.
- ✓ **GSM signal strength (RSSI)**: View the signal strength result measured by the GSM module (from 0−5). Go to: **installer Maintenance menu** → **Diagnostics** → **GSM** → **Module**, *page* 213.
- ✓ Additional tests at the installer Maintenance menu: For keypads, sirens, strobes, wireless, and diagnostics (including main battery test, and zone resistance test). See from page 213.
- ✓ Follow-Me Test: After programming FM destination(s), go to: installer Follow Me Menu → Test. Trigger an alarm activation (for example, as done during a Walk Test), and see if the FM notification is received at the FM destination(s). See Follow Me Menu, page 210.



Installer Responsibilities for Assisting the Client

Here are some typical, recommended areas for you to assist the client, upon handing over system after installation:

- ✓ Advise client to change the default Grand Master code to one that is confidential.
- ✓ For RISCO Cloud-enabled communication, instruct users with Smartphones to download the iRISCO app from the Apple App store or Android Play Store, and ensure that a connection between the app and the system is established.
- ✓ Instruct how to define user codes, proximity tags, and Follow-Me destinations.
- ✓ Instruct how to do the following from keypads and keyfobs:
 - Full arm, partial arm, disarm
 - Send a duress disarm (silent alarm) to the monitoring station
 - Activate a panic alarm
 - Check system status
 - Use SMS for remote operation
 - Operate Listen-In & Speak Unit



Appendix A: Technical Specification

Main Panel	Technical Information
Input Power:	AC/DC Adaptor 100-240 V, 50/60Hz, 14.4V (+/-5%) —4A PS
Current Consumption:	110 mA, typical, 180 mA, maximum
Rechargeable Standby Battery:	12 V, 18 Ah (Amp-hours)
Output Voltage Range	11V – 13.8V (ripple 200 mV)
Power Output	 Maximum current draw from each bus ("AUX RED" terminals is 750 mA Maximum current draw from Bell/LS terminal is 750 mA Maximum combined current draw from the two AUX terminals, plus UO1 and UO2 is 750 mA Total current draw from panel terminal blocks should not exceed 2000 mA, in addition to above limitations
Programmable outputs:	UO1: Dry contact relay (24V, 1 Amp) UO2: 500 mA transistor (Open Collector) UO3 – UO4: 100 mA, opto relay
Main box/enclosure dimensions	RP512BM21 375 x 330 x 98 mm RP512BM26 420 x 379 x 95 mm
Operating temperature	-10°C to 55°C (14°F to 131°F)
Keypads, Expansion Modules, Communication Modules	Technical Information
Elegant Keypad (RPKEL)	12 V +/-15%, 100 mA maximum
Elegant Keypad—Proximity (RPKELP)	12 V +/-15%, 150 mA maximum
LCD Keypad (RP432KP)	13.8 V +/-10%, 48 mA typical, 52 mA maximum
Proximity LCD Keypad (RP432KPP)	13.8 V +/-10%, 62 mA typical, 130 mA maximum
Single Zone Expander (RP128EZ1)	13.8 V DC +/-10%; 20 mA
8 Zone Expansion Module (RP432EZ8)	20 mA, typical, 29mA maximum
16 Zone Expansion Module (RP512EZ16)	20 mA typical, 100 mA maximum
Bus Zone Expander (RP128EZB)	20 mA



Wireless Expansion Module (RP432EW8, RP432EW4)	13.8 V DC +/-10%; 40 mA typical, 65 mA maximum
4 x 3A relay Output Expansion Module (ProSYS E04)	13.8VDC +/-10%; 25 mA typical / 160 mA maximum 4 Form C (SPDT) Relays.; 5 A / 24V DC
8 x 100 mA Output Expansion Module (ProSYS E08)	13.8VDC +/-10%; 25 mA typical / 70 mA maximum
[Italy] Prox. Key Reader (ProSYS PKR3)	13.8 V DC +/-10%; 70 mA, typical, 180 mA maximum
Digital Voice Module (RP432EV)	13.8 V DC +/-10%; 30 mA typical, 70 mA maximum
Listen & Speak Unit (RP128EVM)	7 V DC, 10mA standby, 60mA typical, 130 mA maximum
Plug-in single-socket GSM/GPRS Module (RP432GSM)	13.8 V DC +/-10%; 30mA standby, 300mA communicating
Plug-in multi-socket 2G GSM Module (RP512G2)	30 mA standby, 300 mA communicating
Plug-in multi-socket 3G GSM Module (RP512G3)	30 mA standby, 300 mA communicating
Plug-in single-socket IP Module (RW132IP)	13.8 V DC +/- 10%, 90 mA
Plug-in multi-socket IP Module (RP512IP)	90 mA standby, 300 mA communicating (IP)
Plug-in PSTN Modem (RP512MD24)	20 mA standby, 60 mA communicating
3A Supervised Switching PS Expansion modules (ProSYS 3APS, ProSYS 3APSB)	Input: 16.5 V AC @ 50 VA (via 230 V AC—16.5 V AC transformer) Aux output: 3 A @ 13 VDC; Bell/LS (external) sounder output: 1.7 A @ 13 V DC
1.5A Power Supply Expansion modules (ProSYS 1.5APS, ProSYS 1.5APSB)	Input: 16.5 V AC @ 40 VA (via transformer); Aux output:12 VDC @ up to 1.5 A; Bell/LS (external) sounder output: 12 V DC @ 900 mA max (Total current for Aux + Bell outputs = 1.5 A)



Appendix B: Wiring

The proper use of wire and cable is necessary for the successful installation and operation of the ProSYS Plus system. It is important to select wire of the correct attributes to minimize power loss and ensure reliable system operation. Take into account both the installation's current requirements (for this you can utilize the HandyApp calculator feature) and the wiring distances involved. The following tables provide useful information:

Resistance per AWG Size and Distance

AWG Gauge	Wire Diameter		Resistar	ice: Meters	Resistance: Feet	
Size	Millimeters	Inches	Ω Per Meter	Ω Per 100 Meters	Ω Per Foot	Ω Per 1000 Feet
24	0.50	0.020	0.085	8.5	0.026	26.0
22	0.64	0.025	0.052	5.2	0.016	16.0
20	0.80	0.031	0.032	3.2	0.010	10.0
19	0.90	0.035	0.026	2.6	0.008	8.0
18	1.00	0.040	0.020	2.0	0.006	6.0
16	1.27	0.050	0.013	1.3	0.004	4.0
14	1.63	0.064	0.008	0.82	0.0025	2.5

Wiring Distance between Panel and Plug-In Transformer

One-Way Wire D ProSYS Plus m Plug-In Tr	nain panel and	For best	AWG (Americ results use the in (numerical)	ndicated w	ire size or la	rger
In Meters	In Feet	22	20	18	16	14
Up to 5	Up to 15	4				
5 - 8	15 - 25		4			
8 - 12	25 - 40			4		
12 - 20	40 - 60				4	
20 - 30	60 - 100					4

Maximum Combined Length of all Expansion Bus Wiring

Wire	Gauge	Max Combined Length of ALI	L Expansion Bus Wiring
24 AWG	7/02mm	150 meters	492 feet
22 AWG	16/02mm	200 meters	656 feet
20 AWG	24/02mm	333 meters	1092 feet
19 AWG	28/02mm	400 meters	1312 feet



Notes

- For maximum system stability, it is best not to exceed a total of 300 meters (1000 feet) of wire when wiring the bus.
- For a distance of more than 300 meters, refer to RISCO Group Technical Support services for detailed information.

Total Auxiliary Power

Total		Desired Wire Gauge in Particular Branch									
Auxiliary	32/02	mm	28/02 mm		24/02	24/02 mm		16/02 mm		7/02 mm	
Power	18 A	WG	19 A	WG	20 A	20 AWG		22 AWG		24 AWG	
(Max Current	Max	Run	Max Run		Max	Max Run		Max Run		Max Run	
Draw per	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	
Branch)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1000		1000	1200015	1000		1000	
20mA	1195	3920	945	3100	750	2460	472	1550	296	970	
30mA	793	2600	628	2060	500	1640	314	1030	197	646	
40mA	597	1960	472	1550	375	1230	236	775	148	485	
50mA	478	1568	378	1240	300	984	189	620	118	388	
60mA	296	1300	314	1030	250	820	157	515	98	323	
70mA	341	1120	270	886	214	703	135	443	84	277	
80mA	299	980	237	775	187	615	118	388	74	243	
90mA	264	867	209	687	166	547	105	343	66	215	
100mA	239	784	189	620	123	492	94	310	59	194	

Note

The wire lengths indicated represent the one-way distance between the source of power and the last detector in the branch.

Maximum External Sounder Current

Max External		Desired Wire Gauge in Particular Branch								
Sounder Current	32/02	mm	28/02 mm		24/02 mm		16/02 mm			
(Max current draw	Max	Run	Max Run		Max Run		Max Run			
per branch)	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet		
100mA	238	780	191	625	151	495	94	310		
200mA	229	390	95	313	76	248	47	155		
300mA	79	260	63	208	50	165	31	103		
400mA	59	195	48	157	38	124	24	78		
500mA	48	156	38	125	30	99	19	62		
650mA	37	120	29	96	23	76	15	48		

Note

The wire lengths indicated represent the one-way distance between the ProSYS Plus and the external sounder in the branch.



Appendix C: Installer Event Log Messages

Event Message	Description
AC Low PS=y	Loss of AC power from power supply ID=y
AC RST PS=y	AC power restore on power supply ID=y
Activate UO=xx	UO XX activation
Actv UO=xx KF=zz	UO XX is activated from remote control ZZ
AL.ReinstateP=Y	Alarm reinstatement on partition Y
Alarm Z=xx	Alarm in zone no. XX
Alrm Cancel P=y	Alarm is cancelled in partition ID=Y
AMPRX DTCT Z=xx	Anti mask proximity detection on bus zone XX
AMPRX RSTR Z=xx	Anti mask proximity detection restore on bus zone XX
ARM A:P=y C=zz	Group A on partition Y is armed by user ZZ
ARM A:P=y KF=zz	Group A on partition Y is set by wireless keyfob ZZ
ARM B:P=y C=zz	Group B on partition Y is armed by user ZZ
ARM B:P=y KF=zz	Group B on partition Y is set by wireless keyfob ZZ
ARM C:P=y C=zz	Group C on partition Y is armed by user ZZ
ARM C:P=y KF=zz	Group C on partition Y is set by wireless keyfob ZZ
ARM D:P=y C=zz	Group D on partition Y is armed by user ZZ
ARM D:P=y KF=zz	Group D on partition Y is set by wireless keyfob ZZ
ARM FAIL P=y	Fail to Arm Partition X by Guard due to not ready zones
ARM:P=y C=zz	Partition Y armed by user ZZ
ARM:P=y KF=zz	Partition Y armed by wireless keyfob ZZ
Aut tst fail	Failure of zone self-test
Auto test OK	Automatic zone self-test OK
Aux RS PS=y	Restore of Aux power on power supply ID=Y
Aux RS ZE=y	Restore of S. Aux power on zone expander Y
Aux TRBL RS S=y	Auxiliary trouble restore on the siren ID=Y
Aux TRBL SIR.=y	Auxiliary trouble on the siren ID=Y
Bat Load RS S=y	Battery load trouble restore from siren ID=Y
Bat Load SIR.=y	Battery load trouble from siren ID=Y
Bat Rst PS=y	Low battery trouble restore from power supply ID=Y
BELL RS PS=y	Bell trouble restore in power supply ID=Y
Bell tamper	Bell tamper alarm
Bell tmp rs	Bell tamper alarm restore
Box tamper	Box tamper alarm from main unit
Box tmp rs	Box tamper alarm restore
Bypass Box+Bell	Box + Bell tamper is bypassed



Event Message Description Byp Trbl C=xx System troubles were bypassed by user XX Bypass Zn=xx Zone no. XX is bypassed Charge Curr S=y Battery charging trouble in siren ID=Y Chng code=xx Changing user code XX Change FM=yy Changing Follow-Me number YY Charge Current RS S=y Battery charging trouble restore in siren ID=Y Clk not set Time is not set Clk set C=xx Time defined by user no. XX
Bypass Zn=xx Zone no. XX is bypassed Charge Curr S=y Battery charging trouble in siren ID=Y Chng code=xx Changing user code XX Change FM=yy Charging Follow-Me number YY Charge Current RS S=y Battery charging trouble restore in siren ID=Y Clk not set Time is not set Clk set C=xx Time defined by user no. XX
Charge Curr S=y Charge code=xx Changing user code XX Change FM=yy Charge Current RS S=y Battery charging trouble restore in siren ID=Y Clk not set Clk set C=xx Time defined by user no. XX
Change FM=yy Changing user code XX Change FM=yy Charge Current RS S=y Battery charging trouble restore in siren ID=Y Clk not set Time is not set Clk set C=xx Time defined by user no. XX
Change FM=yy Changing Follow-Me number YY Charge Current RS S=y Battery charging trouble restore in siren ID=Y Clk not set Time is not set Clk set C=xx Time defined by user no. XX
Charge Current RS S=y Battery charging trouble restore in siren ID=Y Clk not set Time is not set Clk set C=xx Time defined by user no. XX
Clk not set Time is not set Clk set C=xx Time defined by user no. XX
Clk set C=xx Time defined by user no. XX
Cloud Comm.Trbl Communication problems with the Cloud channel
Cloud Connected Cloud communication channel is functioning
Cloud Disconnect Cloud communication channel is not functioning
Cloud Login Err Login problems with the Cloud channel
CO Alarm Z=xx
CO Rst. Z=xx
Comm OK IPC Communication OK between the ProSYS Plus and IP card
Comm OK KP=y Bus communication restore with keypad ID=Y
Comm OK KR=y Bus communication OK with Proximity Key Reader Y
Comm OK VOICE Bus communication OK with Advanced Voice module
Comm OK WME=y Bus communication OK with wireless module expander ID=Y
Comm OK BZE=y Bus communication OK with Bus Zone Expander ID=Y
Comm OK PS=y Bus communication restore with power supply expander ID=Y
Comm OK Siren=y Communication OK between the ProSYS Plus and Siren Y
Comm OK UO=y Bus communication restore with UO expander ID=Y
Comm OK Z=xx Bus communication OK with bus zone XX
Comm OK ZE=y Bus communication restore with zone expander ID=Y
Comm. OK GSM Communication OK between the ProSYS Plus and GSM
Comm.OK LRT Communication OK between the ProSYS Plus and the long range
transmitter
Conf. Z=xx Confirmed alarm occurred from zone XX
Conf. alarm P=y Confirmed alarm occurred in partition Y
Conf.holdup P=y Confirmed holdup occurred in partition Y
Confirm rs Z=xx Restore zone confirmed alarm
CP reset The control panel has reset
Dat set C=xx Date defined by user no. XX
Day A:P=y Daily arm on partition Y
Day Arm:p=y Daily Arm on Partition Y
Day b:p=y Arm by scheduler of group B on partition Y



Event Message	Description
Day c:p=y	Arm by scheduler of group C on partition Y
Day d:p=y	Arm by scheduler of group D on partition Y
Day dis:P=y	Daily disarm on partition Y
Day hom:P=y	Daily Stay or Group arming in partition Y
DC Restore Z=XX	DC trouble restore in Bus zone XX
DC Trouble Z=XX	DC trouble in Bus zone XX
Dis:P=y C=zz	Partition Y disarmed by user ZZ
Dis: P=y KF=zz	Partition Y disarmed by remote control ZZ
Duress P=y C=xx	Partition Y duress alarm from user no. XX
DUST RST Z=xx	Dust trouble restore from WatchOUT DT Bus zone XXX
DUST Z=xx	Dust trouble from WatchOUT DT Bus zone XXX
EE AC.UPLOAD	Load new parameters from PTM accessory
Enter progrm	Entering installer programming from keypad or configuration software
Exit program	Exiting installer programming from keypad or configuration software
F.Tr OK Z=xx	Trouble restore in fire zone no. XX
F.Trbl Z=xx	Trouble in fire zone no. XX
Fire Zone=xx	Fire alarm in zone no. XX
False code kp=y	False code due to 3 incorrect keypad attempts
False code kr=y	False code due to 3 incorrect Access Control attempts
False rest.kp=y	False code is restored for keypad
False rest.kr=y	False code is restored for key reader
Fault z=xx	Trouble in zone XX
Fire z=xx	Fire alarm in zone XX
Fire kp=y	Fire alarm from keypad (ID=XX) (keys 3 & 4)
Foil ok Z=xx	Restore in foil (Day) zone no. XX
Foil Z=xx	Trouble in foil (Day) zone no. XX
Forced P=y	Partition Y is force armed
Found Z=xx	Wireless zone found, zone no. XX
Func=xx C=yy	Quick key function XX by user YY
Gas Alarm Zn=xx	Gas (natural gas) alert from zone XX defined as a gas detector
Gas Rst. Z=xx	Gas (natural gas) alert restored from zone XX defined as a gas detector
GSM:GPRS PW ERR	Authentication password is incorrect
GSM:GPRS PW OK	Authentication password is correct
GSM:IP OK	IP connection OK



Event Message	Description
GSM:IP Trouble	IP address is incorrect
GSM:Mdl comm.OK	Communication between the GSM/GPRS Module and the ProSYS
GOWING COMMISON	Plus is OK
GSM: Module comm.	Internal GSM/GPRS bus module trouble
GSM:MS OK	GPRS communication to the MS is OK
GSM:MS trouble	GPRS communication failure to the MS
GSM:NET avail.	GSM network is not available
GSM:NET avai.OK	GSM Network is available
GSM:NET qual.OK	GSM Network quality is acceptable
GSM:NET quality	The GSM RSSI level is low
GSM:PIN cod.err	PIN code entered is incorrect
GSM:PIN code OK	PIN code is correct
GSM:PUK Cod err	PUK code required
GSM:PUK Code OK	PUK Code entered is correct
GSM:SIM OK	SIM Card in place
GSM:SIM trouble	SIM card missing or not properly sited
H.Temp rst Z=xx	High temperature alert restored from zone XX defined as a
	temperature detector
High Temp. Z=xx	High temperature alert from zone XX defined as a temperature
	detector
HOM:P=y C=zz	Partition Y is armed in Stay mode by user ZZ
HOME:P=y KF=zz	Partition Y is home armed using keyfob ZZ
HU.ReinstateP=y	Hold-Up Reinstatement in partition y
IPC:DHCP error	Failed to acquire an IP address from the DHCP server
IPC:DHCP OK	Succeeded to acquire an IP address from the DHCP server
IPC: downld err	IP Card generated a download error
IPC: download OK	IP Card download was OK
IPC: evnt log ER	IP Card generated an event log error
IPC: evnt log OK	IP Card event log generated no error
IPC: hardware OK	IP Card hardware is OK
IPC: hardware error	IP Card generated a hardware error
IPC: mail error	IP Card generated a mail error
IPC: mail OK	IP Card mail is OK
IPC:MS=y error	IP Card Monitoring station ID=Y generated an error
IPC:MS=y OK	IP Card Monitoring station ID=Y was OK
IPC: Network err	Failed to connect to IP network
IPC: Network OK	Successful connection to IP network



Event Message	Description
IPC:NTP error	Failed to acquire time data from the time server
IPC:NTP ok	Succeeded to acquire time data from the time server
IPC: upgrade err	The IP Card upgrade generated an error
IPC: upgrade OK	The IP Card upgrade was OK
IR restore Z=xx	Trouble restore in the IR channel of bus zone XX
IR trouble Z=xx	Trouble in the IR channel of bus zone XXX
JAMM. WME=y	Jamming in wireless module expander ID=Y
KeyBox Open Zxx	Zone XX of type key box is open
KeyBox Rst Z=xx	Zone XX of type key box is restored
KP=\$ Lost	Keypad is lost
KP=\$ Lost Rs	Lost keypad has been restored
KP=\$ LOW BAT.	Low Battery trouble for the keypad
KSW A: Z=xx P=Y	Group A in partition Y is armed by keyswitch zone XX
KSW ARM:Z=xxP=Y	Partition Y is armed by keyswitch zone XX
KSW B: Z=xx P=Y	Group B in partition Y is armed by keyswitch zone XX
KSW C: Z=xx P=Y	Group C in partition Y is armed by keyswitch zone XX
KSW D: Z=xx P=Y	Group D in partition Y is armed by keyswitch zone XX
KSW DIS:Z=xxP=Y	Partition Y is disarmed by keyswitch zone XX
LB rstr KF=yy	Low battery trouble restore from wireless remote control YY
L.Temp rst Z=xx	Low temperature alert restored from zone XX defined as a temperature detector
LB RSTR Z=xx	Low battery restore from wireless zone XX
Lost Z=xx	Wireless zone lost, zone no. XX
Low Bat KF=xx	Low battery trouble from wireless remote control ID=XX
Low Bat PS=y	Low battery trouble from power supply ID=Y
Low Bat RS Z=xx	Low battery trouble restored from wireless zone no. XX
Low Bat Siren=y	Low battery trouble from siren ID=Y
Low bat Z=xx	Low battery trouble from wireless zone no. XX
Low Temp. Z=xx	Low temperature alert from zone XX defined as a temperature detector
LRT:ACCOUNT ERR	The long range transmitter account generates an error
LRT:ACCOUNT OK	The long range transmitter account is OK
LRT:HARDWARE OK	The long range transmitter hardware is OK
LRT:HARDWRE ERR	The long range transmitter hardware generates an error
LRT:LOW BAT	The long range transmitter is experiencing low battery trouble.
LRT:LOW BAT OK	The long range transmitter low battery in not troubled
LRT:NO BAT	The long range transmitter is experiencing no battery



Event Message	Description	
	-	
LRT:NO BAT OK	The long range transmitter no battery is not troubling.	
LRT:SYSTEM ERR	The long range transmitter is generating a system error.	
LRT:SYSTEM OK	The long range transmitter system status is OK	
Main Bell RS	Bell trouble restore in Main Panel	
Main:AC Rstr	AC power restore on main panel	
Main Aux Rst	Restore of Aux power on Main Panel	
Main: Bat Rst	Low battery trouble restore from the main panel	
Main: Low AC	Loss of AC power from the main panel	
Main: Low Bat	Low battery trouble from the main panel	
Main:No aux	Failure in the Aux power on Main Panel	
Main:No bell	Bell trouble in Main Panel	
Masked Z=XX	Anti mask trouble from zone XX	
MS=y call error	Communication fail trouble to MS phone no. Y	
MS=y restore	Communication fail trouble restore to MS phone no. Y	
MW restore z=xx	Trouble restore in the MW channel of BUZ zone XX	
MW trouble z=xx	Trouble in the MW channel of BUZ zone XX	
Next arm:p=y	Partition Y armed in Next Arm mode	
Next dis:p=y	Partition Y disarmed in Next Disarm mode	
No aux ps=y	Failure in the Aux power on power supply ID=X	
No aux ze=y	Failure in the S. Aux power on zone expander Y	
No bell ps=y	Bell trouble in power supply ID=Y	
No Com IPC	Communication failure between the ProSYS Plus and IP card	
No com kp=y	Communication failure between the ProSYS Plus and keypad ID=Y	
No com kr=y	Communication failure between the ProSYS Plus and Key Reader ID=Y	
No com voice	Communication failure between the ProSYS Plus and the Advanced Voice module	
No com WME=y	Communication failure between the ProSYS Plus and wireless module expander ID=Y	
No comm BZE=y	Communication failure between the ProSYS Plus and bus zone expander ID=Y	
No comm PS=y	Communication failure between the ProSYS Plus and power supply Y	
No comm Siren=y	Communication failure between the ProSYS Plus and siren Y	
No comm uo=y	Bus communication failure with UO expander ID=Y	
No comm z=xx	Bus communication failure with Bus zone XX	



Event Message	Description
No comm ze=y	Bus communication failure with zone expander ID=Y
No comm. GSM	No communication between the GSM/GPRS Module and the ProSYS Plus
No comm. LRT	No communication between long range transmitter and system
No fault z=xx	Trouble restore in zone XX (TEOL zone or Bus zone input TEOL)
No jam wme=y	Jamming restore on wireless module expander ID=Y
No mask z=xx	Anti mask trouble restore from zone XX
Nxt hom:p=y	Partition Y is armed in Next Stay mode
Overld rs ps=y	Overload restore from 3A SMPS Y
Overload ps=y	Overload from 3A SMPS Y
Phone fail	If the phone line is cut or the DC level is under 1V
Phone restore	Phone line trouble restore
PIR rstr Z=xx	PIR trouble restore from Bus zone XX
PIR trbl Z=xx	PIR trouble from Bus zone XX
Police KF=yy	Police (panic) alarm from remote control YY
Police KP=y	Police (panic) alarm from keypad Y
POT.LD RS PS=y	Potential overload restore of 3A SMPS joined by 3A SMPS Y
POT.OVRLD PS=y	Potential overload of SMPS joined by 3A SMPS Y
PROX FAIL S=y	Fail in the proximity anti approach protection in siren Y
PROX OK SIREN=y	Proximity anti approach protection is restored in siren Y
PROX TMP RS S=y	Proximity tamper restore from siren ID =Y
PRX TMP SIREN=y	Proximity tamper from approaching siren ID=Y
PS=yOVER.R C=zz	Overload in 3A SMPS Y. Reset by user ZZ
Radio l.bat S=y	Radio low battery trouble from siren Y
Radiol.bat rS=y	Radio low battery restore from siren Y
Remote Prog	The system has been programmed from the configuration software
Reset: P=y C=zz	Reset of partition ID=Y and user ID=ZZ
Restore Z=xx	Alarm restore in zone no. XX
Rmt Arm:P=y	Partition Y armed from the configuration software
Rmt Dis:P=y	Partition Y disarmed from the configuration software
RMT Hom:P=y	Partition Y armed in Stay mode from the CS software
SEISMIC OK Z=xx	Seismic Test in bus zone XX has been restored
SEISMIC TR Z=xx	Seismic Test rouble in bus zone XX
Self Fail Z=xx	Bus zone XX has failed the Self Test
Self OK Z=xx	Self Test in bus zone XX has been restored
Siren=\$ Lost	Siren is regarded as lost following supervision test



Siren=\$ Lost Rs The ProSYS Plus received a signal from siren after it has been regarded as lost Soak fail Z=xx Zone XX has failed in the soak test Spec. KP=y Special alarm from the from wireless keypad Y Spk Trbl RS S=y Speaker low battery restore from siren Y Spkr Trbl Sir=y Speaker low battery trouble from siren Y Spkr I.batrsS=y Speaker low battery trouble from siren Y Spkr I.batrsS=y Speaker low battery trouble from siren Y Spkr I.batrsS=y Speaker low battery trouble from siren Y Start exit P=y Exit time started in partition Y STU=Y Line Rstr STU adapter Y line restoration STU=Y Line Trbl STU adapter Y line trouble STU=Y R.RESET STU adapter Y line restoration reset Tamper BZE=y Tamper alarm from bus zone expander ID=Y Tamper Kp=y Tamper alarm from long range transmitter Tamper PS=y Tamper alarm from power supply Y Tamper Siren=y Tamper alarm from wireless siren Y Tamper UO=y Tamper alarm from wireless module expander Y Tamper WME=y Tamper alarm from wireless module expander Y Tamper ZE=y Tamper alarm from wireless module expander Y Tamper ZE=y Tamper alarm from wireless module expander Y Tamper ZE=y Tamper alarm from zone no. XX Tech alarm Z=xx Alarm from zone XX defined as Technical TMP RS BZE=y Tamper alarm restore from bus zone expander ID=Y TMP RS KP=y Keypad tamper restore
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Tamper Zn=xx Tamper alarm from zone no. XX Tech alarm Z=xx Alarm from zone XX defined as Technical Tech rstr Z=xx Alarm restored from zone XX defined as Technical TMP RS BZE=y Tamper alarm restore from bus zone expander ID=Y
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Tech rstr Z=xx Alarm restored from zone XX defined as Technical TMP RS BZE=y Tamper alarm restore from bus zone expander ID=Y
TMP RS BZE=y Tamper alarm restore from bus zone expander ID=Y
TMP RS KP=y Keypad tamper restore
TMP RS PS=y Tamper alarm restore from power supply expander ID=Y
TMP RS UO=y Tamper alarm restore from UO expander ID=Y
TMP RS VOICE Tamper alarm restore from Advanced Voice module
TMP RS WME=y Tamper alarm restore from wireless module expander ID=Y
TMP RS ZE=y Tamper alarm restore in zone expander ID=Y
TMP RS ZN=xx Tamper alarm restore on zone XX
TMP RST LRT Long Range transmitter tamper alarm reset
Tmp rst Siren=y Tamper alarm restore from wireless siren Y
Unbyp Box+Bell Box + Bell reinstated from bypass
Unbyps Zn=xx Zone no. XX is reinstated from bypass
Unknown evnt Unknown event alert



Event Message	Description
UO REST ZN=xx	A zone defined as "UO Trigger" has been deactivated
UO TRIG ZN=xx	A zone defined as "UO Trigger" has been activated
VOC:COMM OK	Bus communication OK with Voice Module
VOC:NO COMM	Bus communication failure with the Voice Module
Water Alrm Zn=xx	Flood alarm from zone no. XX
Water rstr Z=xx	Flood alarm restore on zone no. XX
WEAK BAT PS=y	Weak battery indication joined by 3A SMPS Y
Weak Bat RS PS=y	Weak battery restore indication joined by 3A SMPS Y
Z=xx aut bad	Zone self-test failed, zone no. XX
Z=xx auto ok	Zone self-test OK, zone no. XX

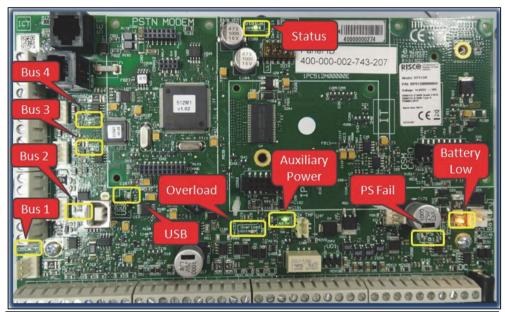


Appendix D: Troubleshooting

Troubleshooting and diagnostics can be done by performing by the various systems tests that are available (see *Testing the System, page 215*) and with the Configuration Software. Additional information is available through RISCO University. For additional assistance, contact RISCO Group Technical Support.

LED Indicators – Main Panel PCB, Communication Modules

Main Panel PCB LEDs



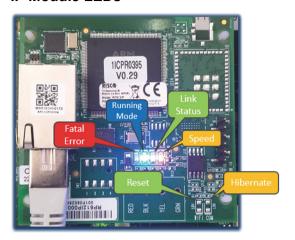
LED/Function	Color	State	Status
	Green	ON	System Ready
LED 7 (Status)		OFF	System not available
		Blink slow	Bus test/installation mode
		Blink fast	Upgrade mode
LED 0 (DC E 'I)	Red	ON	AC power disconnected
LED 9 (PS Fail)	Red	OFF	AC power connected
		ON	Battery failed/disconnected
LED 11 (Batter y)	Orange	ON	(voltage > 7 V)
		OFF	Battery charged (voltage > 11.2 V)
		Blink fast	Battery charging



LED/Function	Color	State	Status
		ON	System in risk of overload
	0	OFF	Normal current
LED 12 (Overload)	Orange	Blink slow	System reached 80% current limit
		Blink fast	System reached 95% current limit
Auxiliary Power	Green	ON	Power enabled (to all bus lines/zones)
LED	Green	OFF	Power disabled
LED 10 (USB) Bus LEDs (1 LED for each bus)	Green	ON	USB connection established
		OFF	USB disconnected
		Blink slow	RX / TX active
		Blink fast	KX / 1X active
	Red	ON	One of the devices didn't answer or is
			disconnected
		OFF	Idle state
		Blink slow Blink fast	Boot mode: blinking together (bus 1,
			bus 2, bus 3, bus 4)
			No communication with main processor:
			following blinking (bus 1, bus 2, bus 3,
			bus 4)



IP Module LEDs



LED/Function	Color	State	Status
Reset I FD Green		ON	Normal operation
Reset LED Green	Green	OFF	Reset ON / boot
Hibernate LED Orange	ON	Normal operation	
	Orange	OFF	Hibernate ON / boot

LED/Function	Color	State	Status	
_	0	ON	100 Mb/s / boot	
Speed LED	Orange	OFF	10 Mb/s	
		ON	uplink	
Link status	Cassa	OFF	downlink	
LED	Green	Blink slow	Transmit and receive activity	
		Blink fast		
		ON	Normal operation	
Running mode	Blue	OFF	Not ready (power-up)	
LED		Blink slow	Boot	
	Red	ON	Error	
Fatal error LED		OFF	Normal operation	
		Blink slow	Boot	



GSM Module LEDs



Note

After 15 minutes all LEDs will turn off.

LED/Function	State	Status				
LD1	(not in use)					
	ON	Module is ON				
LD2	OFF	Module is OFF				
	ON	Communicating with the m	aain panel PCB			
LD3	OFF	No communication with the	e main panel PCB			
ON	ON	Voice call: Connected to remote partyOR- Data call: Connected to remote party or exchange of parameters while setting up or disconnecting a call.				
	OFF	Module is OFF				
LD4	Blink slow	600 ms ON / 600 ms OFF:	 No SIM No PIN Network search in progress Ongoing user authorization Network login in progress 			
		500 ms ON / 25 ms OFF:	Packet switch data in progress			
	Blink fast	75 ms ON / 3 sec OFF:	Registered to GSM network			



Appendix E: Library Voice Messages

001	(Custom)
002	(Custom)
003	(Custom)
004	(Custom)
005	(Custom)
A	
006	A
007	Above
008	Air conditioner
009	An
010	And
011	Apartment
012	Area
013	At
013	Attic
	Auc
B	D-1
015	Baby's room Back
016 017	Balcony
017	Basement
019	Bathroom
020	Bedroom
021	Before
022	Behind
023	Bottom
024	Boy's room
025	Ву
С	1 -
026	Camera
027	Ceiling
028	Cellar
029	Central
030	Children
031	Cleaner
032	СО
033	Computer room
034	Contact
035	Control
036	Corner
037	Curtain
D	
038	Desk
039	Detector
040	Device
041	Dining
	Door
042	
043	Down
	Down Downstairs Dressing

	nary vo
E	
046	East
047	Elevator
048	Emergency
049	Entrance
050	Entry
051	Executive
052	Exit
053	External
F	
054	Family
055	Fence
056	Fire
057	
057	First Flood
059	Floor
060	For
061	Foyer
062	Front
G	
063	Game
064	Garage
065	Garden
066	Gas
067	Gate
068	Girl's room
069	Glass
070	Guest
Н	
071	Hallway
072	High
I	
073	In
074	Indoor
075	Inside
076	Internal
077	Is
K	
078	Keyfob
079	Kitchen
L	
080	Landing
081	Left
082	Library
083	Light
084	Living
085	Lobby
086	Low

M	
087	Macro
088	Magnet
089	Main
090	Master
091	Middle
092	Motion
N	
093	Near
094	New
095	North
096	Nursery
0	•
097	Of
098	Office
099	On
100	Outdoor
101	Output
102	Outside
P	
103	Panic
104	Partition
105	Passage
106	Patio
107	Perimeter
108	Pool
R	
109	Rear
110	Reception
111	Refrigerator
112	Relay
113	Right
114	Roof
115	Room
S	
116	Safe
117	Safety
118	Second
119	Sensor
120	Shock
121	Shop
122	Shutter
123	Side
124	Siren
125	Site
126	Smoke
127 128	South Sprinkler
129	Stairs
129	Julis

130			
	Store		
131	Student room		
132	Study		
T			
133	Technical		
134	Temperature		
135	Third		
136	To		
137	Тор		
138	TV		
U			
139	Under		
140	Up		
141	Upstairs		
v			
142	Video camera		
W			
143	Wall		
144	Warehouse		
145	Washroom		
146	West		
147	Window		
Y			
148	Yard		
Z			
149	Zone		
11)	Numbers		
150	0		
151	1		
152	2		
153	3 4		
154 155			
	5		
156	6		
156 157	7		
156			



Appendix F: Monitoring Station Report Codes

Parameter	Contact ID	SIA	Report Category
Alarms			
Panic alarm	120	PA	Urgent
Panic alarm restore	120	PH	Urgent
Fire alarm	115	FA	Urgent
Fire alarm restore	115	FH	Urgent
Medical alarm	100	MA	Urgent
Medical alarm restore	100	MH	Urgent
Duress alarm	121	НА	Urgent
Duress alarm restore	121	НН	Urgent
Box tamper	137	TA	Urgent
Box tamper restore	137	TR	Urgent
Confirmed alarm	139	BV	Urgent
Confirmed alarm restore	139		Urgent
Recent Close	459		Non- urgent
Main Troubles			
Bell trouble	321	YA	Non- urgent
Bell trouble restore	321	YH	Non- urgent
Auxiliary failure	300	YP	Non- urgent
Auxiliary restore	300	YQ	Non- urgent
Bus failure	333	ET	Non- urgent
Bus restore	333	ER	Non- urgent
Low battery	302	YT	Non- urgent
Low battery restore	302	YR	Non- urgent
AC loss	301	AT	Non- urgent
AC restore	301	AR	Non- urgent
Clock not set	626		Non- urgent
Clock set	625		Non- urgent
False code	421	JA	Non- urgent
False code restore	421		Non- urgent
Main phone trouble	351	LT	Non- urgent
Main phone trouble restore	351	LR	Non- urgent
RF Jamming	344	XQ	Non- urgent



Parameter	Contact ID	SIA	Report Category
RF Jamming restore	344	XH	Non- urgent
GSM trouble	330	IA	Non- urgent
GSM trouble restore	330	IR	Non- urgent
GSM Pre-Alarm			Non- urgent
IP Network trouble			Non- urgent
IP Network trouble restore			Non- urgent
Arm/Disarm			
User Arm	401	CL	Arm/Disarm
User Disarm	401	OP	Arm/Disarm
Stay arm	441	CG	Arm/Disarm
Disarm after alarm	458	OR	Arm/Disarm
Keyswitch Arm	409	CS	Arm/Disarm
Keyswitch Disarm	409	OS	Arm/Disarm
Auto Arm	403	CA	Arm/Disarm
Auto Disarm	403	OA	Arm/Disarm
Remote Arm	407	CL	Arm/Disarm
Remote Disarm	407	OP	Arm/Disarm
Forced Arm	574	CF	Arm/Disarm
Quick Arm	408	CL	Arm/Disarm
No Arm	654	CD	Arm/Disarm
Auto Arm fail	455	CI	Arm/Disarm
Detectors (Zones)			
Burglary alarm	130	BA	Urgent
Burglary alarm restore	130	ВН	Urgent
Fire alarm	110	FA	Urgent
Fire alarm restore	110	FH	Urgent
Foil alarm	155	BA	Urgent
Foil alarm restore	155	BH	Urgent
Panic alarm	120	PA	Urgent
Panic alarm restore	120	PH	Urgent
Medical alarm	100	MA	Urgent
Medical alarm restore	100	MH	Urgent
24 Hour alarm	133	BA	Urgent



Parameter	Contact ID	SIA	Report Category
24 Hour alarm restore	133	ВН	Urgent
Entry/Exit	134	BA	Urgent
Entry/Exit restore	134	ВН	Urgent
Water (Flood) alarm	154	WA	Urgent
Water (Flood) alarm restore	154	WH	Urgent
Gas alarm	151	GA	Urgent
Gas alarm restore	151	GH	Urgent
Carbon Monoxide alarm	162	GA	Urgent
Carbon Monoxide alarm restore	162	GH	Urgent
Environmental alarm	150	UA	Urgent
Environmental alarm restore	150	UH	Urgent
Low Temperature (Freeze alarm)	159	ZA	Urgent
Low Temperature restore	159	ZH	Urgent
High Temperature	158	KA	Urgent
High Temperature restore	158	KH	Urgent
Zone trouble	380	UT	Urgent
Zone trouble restore	380	UJ	Urgent
Burglary trouble	380	BT	Urgent
Burglary trouble restore	380	ВЈ	Urgent
Zone bypass	570	UB	Urgent
Zone bypass restore	570	UU	Urgent
Burglary bypass	573	BB	Urgent
Burglary bypass restore	573	BU	Urgent
Zone supervision loss	381	UT	Urgent
Zone supervision restore	381	UJ	Urgent
Tamper	144	TA	Urgent
Tamper restore	144	TR	Urgent
Zone lost	381	UT	Urgent
Zone lost restore	381	UJ	Urgent
Low battery	384	XT	Non- urgent
Low battery restore	384	XR	Non- urgent
Soak fail	380	UT	Urgent



Parameter	Contact ID	SIA	Report Category
Soak fail restore	380	UJ	Urgent
Zone Alarm	134	BA	Urgent
Zone Alarm restore	134	BH	Urgent
Zone confirm alarm	139	BV	Urgent
Zone confirm alarm restore	139		Urgent
No activity	393	NC	Urgent
No activity restore	393	NS	Urgent
Wireless Keypad			
Tamper	145	TA	Urgent
Tamper restore	145	TR	Urgent
Keypad lost	355	BZ	Urgent
Keypad lost restore	355		Urgent
Wireless Keyfob			
Arm	409	CS	Arm/Disarm
Disarm	409	OS	Arm/Disarm
Low battery	384	XT	Non- urgent
Low battery restore	384	XR	Non- urgent
Wireless Siren			
Tamper	145	TA	Urgent
Tamper restore	145	TR	Urgent
Low battery	384	XT	Non- urgent
Low battery restore	384	XR	Non- urgent
Siren lost	355	BZ	Urgent
Siren lost restore	355		Urgent
Power Supply			
Bell trouble	321	YA	Non-urgent
Bell trouble restore	321	YH	Non-urgent
Auxiliary close	301	AT	Non-urgent
Auxiliary close restore	301	AR	Non-urgent
Auxiliary failure	300	YP	Non-urgent
Auxiliary restore	300	YQ	Non-urgent
Overload	312	YP	Non-urgent
Overload restore	312	YQ	Non-urgent
Miscellaneous			



Parameter	Contact ID	SIA	Report Category
Enter programming (local)	627	LB	Arm/Disarm
Exit programming (Local)	628	LS (LX)	Arm/Disarm
Enter programming (Remote)	627	RB	Arm/Disarm
Exit programming (Remote)	628	RS	Arm/Disarm
MS periodic test	602	RP	Non- urgent
MS keep alive (polling)	999	ZZ	Urgent
Call back	411	RB	Non- urgent
System reset	305	RR	Urgent
Listen in begin	606	LF	Urgent
Cancel Report	406	OC	Urgent
Walk Test	607	ВС	Non- urgent
Walk Test restore	607		Non- urgent
Exit Error	374		Non- urgent
Enter Service Mode	393	LB	Non-urgent
Exit Service Mode	393	LX	Non-urgent



Appendix G: Remote Software Upgrade

This appendix explains how to perform remote upgrade of your ProSYS Plus main panel software using the ProSYS Plus keypad or SMS command. Remote software upgrade is performed via IP or GPRS.

Notes

- 1. It is recommended to perform the upgrade process from keypad 1 (not from a wireless keypad).
- 2. Software upgrade does not delete all previous parameters of the panel.

Step 1: Set parameters for IP/GPRS communication

Define all parameters required to set GPRS or IP communication as explained in the Communication section of the ProSYS Plus (See *page 150*).

Step 2: Enter the location of the firmware update file

- Go to: 1 → 8 (installer Programming menu → System → Firmware Update), and enter the relevant information regarding the location of the F/W update file:
 - Server IP: Enter the IP address of the router/gateway where the F/W update file is located. Default: firmware.riscogroup.com
 - **2** Port: Enter the port on the router/gateway where the F/W update file is located. Default: **00080**
 - **3** File Name: Enter the F/W update file name. Default: CMD.TXT

Notes

- 1. The file name is case sensitive.
- 2. Please contact RISCO Group Customer Support services for the file name parameters.

Step 3: Activate the Remote Upgrade from the keypad

- Go to: 1 → 8 → 4 (installer Programming menu → System → Firmware Update → Download File).
- 2. Select the communication path as follows:
 - O Via IP
 - **2** Via GPRS



Notes

Each option appears only if the relevant module (IP or GPRS module) is installed in the system.

If your panel is equipped with an IP or GSM module you can start the download file procedure by sending an SMS command to the panel in the following format: (If address and port are configured and updated)

- a. Via IP 97239637777IPFILE.
- b. Via GSM (GPRS) 97239637777GSMFILE.

(Address and port can be added to the SMS command string as per the following. If specified, these parameters also override any existing panel settings)

- a. Via IP 97239637777IPFILE10.10.10.6:80.
- b. Via GSM (GPRS) 97239637777GSMFILE212.150.25.223:80.
- 3. Once selected, the ProSYS Plus will start downloading the required files. The upgrade procedure may take approximately 40 minutes to complete. This will vary according to whether the procedure is performed via GPRS or IP. Once the files are downloaded the panel automatically starts with the upgrade procedure of the units connected to the system.

Notes

- During the upgrade process of the panel firmware there will be no display on the keypad.
- While downloading the files for the upgrade procedure the green STATUS LED on the main panel PCB will flash slowly. When the upgrade procedure starts, it will start to flash rapidly.

Step 4: Verify the upgrade was successful

- From the main display press Exit (and enter the installer code followed by OK (✓).
- Scroll to Maintenance → Diagnostics→ Panel Version. The upgraded version of the main panel will appear.
- To view the other accessories version navigate to the required menus under the Maintenance → Diagnostics menu.

Note

If upgrade has failed, the previous software version of the main panel / accessory version will appear.



Appendix H: EN50131 & EN50136 Compliance

Compliance Statement

Hereby, RISCO Group declares that the ProSYS Plus series of central units and accessories are designed to comply with:

EN50131-1, EN50131-3 Grade 3

EN50130-5 Environmental class II

EN50131-6 Type A

UK: BS 8243:2010, PD 6662:2010, ACPO (Police)

EN50136-1, EN50136-2 and EN50131-10

ATS6 for IP/GPRS; ATS 2 for PSTN

ATS EN50136-1 Category C (PSTN, GSM, IP transmission paths in parallel) Signaling security:

- Substitution security S2
- Information security I3

EN50136 Compliance

PSTN, IP and GSM modules are complying with the following standards:

EN50136-1:2012

EN50136-1-2:2013

EN50131-10:2014

- PSTN can be connected to a monitoring station via any EN50136 compliant receiver, which shall meet all requirements of securing messages.
- When IP and/or GSM modules are in use, IP Receiver software is also in
 use. The IP Receiver should be connected to automation software, which
 serves as the EN50136 annunciator. If connection between the IP Receiver
 and the automation software is lost, an error message will appear on the
 IP Receiver queue.
- In order to have an indication of ACK received from the receiving center transceiver, the parameter Kiss-Off Y/N (see page 168) should be set to Y.



Possible logical key calculations

- Logical codes are codes punched in the wireless keypad to allow Level 2 (users) and Level 3 (installer) access.
- All codes 6 digits structure: xxxxxx
- 0-9 can be used for each digit.
- There are no disallowed codes codes from 000001 to 999999 are acceptable.
- Invalid codes cannot be created due to the fact that after the code 4th digit
 has been punched, "Enter" is automatically applied. Code is rejected when
 trying to create a non-existing code.

Possible physical key calculations

- Physical keys are implemented in the wireless keyfobs.
- It is assumed that only a user possesses a keyfobs, therefore a physical key is considered as access Level 2
- Each keyfob has 24 bit identification code comprising 2^24 options.
- A keyfob has to be recognized and registered by the ProSYS Plus, therefore, a "write" process must be performed.
- A valid keyfob is one "Learned" by the panel and allowing arm/disarm
- A non-valid keyfob is one not "learned" by the panel and not allowing arm/disarm.

System Monitoring

- The main unit is monitored for AC trouble, battery fault, low battery and more.
- All other wireless elements are monitored for low voltage battery.



Setting the ProSYS Plus to comply with EN 50131 Requirements

- 1. Access the Installer programming mode.
- 2. From the ① System menu select ⑤ to access the Settings menu.
- 3. From the Settings menu select @ to access the Standard option.
- 4. Select EN 50131. Once selected, the following changes will occur in the ProSYS Plus software:

Feature	EN 50131 Compliance	
Timers	Quick Key	Required Value:
Entry Delay	00000,	45 seconds (maximum
	00000	allowed)
AC Delay	00027	Immediate (0 minutes)
Jamming Time	00060	0 minutes
RX Supervision	00062	2 hours
System Controls	Quick Key	Required Value:
Quick Arm	02000	Set to NO
False Code Trouble	02006	Set to Yes
Forced Arming	02002	Set to NO
Authorize installer	12400	Set to YES
Override Trouble	12402	Set to NO
Restore Alarm	12408	Set to YES
Mandatory Event Log	12404	Set to YES
Restore Trouble	12406	Set to YES
Exit Alarm	12406	Set to NO
Entry Alarm	02407	Set to YES
20 minutes signal	02408	Set to YES
Attenuation	02409	Set to YES

- After Level 2, 3 or 4 users (users with access codes) are no longer accessing the system, indications are made inaccessible to Level 1 users (users who don't have a code) by the display showing only "Enter code:"
- After entering 3 invalid user codes, an 'invalid code' signal will be alerted to the monitoring station and recorded in the event log. The invalid code will continue to alert in the system until restored by a user with a code



Appendix I: ProSYS Plus Accessories

Part number	Description	Comments		
<u>Main Panel</u>				
RP512M00000A	ProSYS Plus Main Board			
	<u>Enclosures</u>			
RP512BM2100A	ProSYS Plus & LightSYS B21 Box	Metal box with PS & Tamper		
RP512BM2600A	ProSYS Plus & LightSYS B26 Box	Larger box, with place for the STU adapter (without the plastic for it), +PS		
	Communication Modules			
RP512IP0000A	IP Multi-Socket Plug-in Module			
RP512IPMD00A	PSTN + IP M.S Plug in Modules	Kit of PSTN + Multi-Socket IP Modules		
RP512G20000A	M.S 2G for Metal box+Antenna	Multi-Socket 2G with Antenna for Metal Box		
RP512G30000A	M.S 3G for Metal box+Antenna	Multi-Socket 3G with Antenna for Metal Box		
RP432G20000A	M.S 2G for Plastic box+Antenna	Multi-Socket 2G with Antenna for Plastic Box		
RP432G30000A	M.S 3G for Plastic box+Antenna	Multi-Socket 3G with Antenna for Plastic Box		
RP432GSM000A	GSM/GPRS module	Single-Socket GSM/GPRS Module		
RW132IP0000A	Plug-in TCP/IP Module	Single-Socket IP module		
RP512LZ00000A	ProSYS Plus single zone license			
	<u>Keypads</u>			
RPKEL0WT000A	Elegant Keypad, White			
RPKELPWT000A	Elegant Keypad, White W/Prox			
RPKEL0B0000A	Elegant Keypad, Black			
RPKELPB0000A	Elegant Keypad, Black w/ Prox			
RP432KP0000A	LightSYS LCD Keypad			
RP432KP0000ACCC	LightSYS LCD Keypad w. CCC Approval	with CCC approval		
RP432KPP000A	LightSYS LCD Keypad + Prox			
RP432KPP000ACCC	LightSYS LCD Keypad + Prox	with CCC approval		
RP128KCL0ICA	ProSYS LCD keypad with icons			
RP128KCL0ICACCC	ProSYS LCD keypad with icons	with CCC approval		



Part number	Description	Comments		
RP128KCLPUKB	PROSYS LCD G-Tag Keypad			
RP128KCLPILA	ProSYS Prox-LCD KP Hebrew			
RP128KCLPICA	PROSYS PROX.LCD K-Pad with Icons			
RP128KCLPICACCC	PROSYS PROX.LCD K-Pad with Icons	with CCC approval		
RP128KCLPFRA	ProSYS Prox KP with Icons (FR)			
RP128KCLP00A	PROSYS PROX-LCD KP Europe			
RP128KCL0ILA	PROSYS LCD Keypad Hebrew			
RP128KCL0ICA	ProSYS LCD keypad with icons			
RP128KCL0ICACCC	ProSYS LCD keypad with icons	with CCC approval		
RP128KCL0FRA	ProSYS LCD KP with Icons (FR)			
RP128KCL0BLA	PROSYS LCD Keypad (Belgium ST)			
RP128PKR300A	Prox Key Reader Kit 13.56 MHz			
RP128PKR000A	Prox Key Reader Kit (any plastic)			
	Wired Bus Accessories			
RP512EZ1600A	16 zone expander	x32 per system, x32 per bus		
RP432EZ8000A	8 Zone Expender	x32 per system, x8 per bus		
RP128EZB000B	Bus Zone Expender	x32 per system, x16 per bus		
RP128EZ0100A	Single Zone Expender			
RP296E04000A	4 Relay Outputs + IMQ			
RP296E08000A	8 Transistor outputs			
RP128EPS000A	Switched Mode Power Supply -3A			
RP128PSPSEUA	3A_SMPS+LargeBox+TRS+TMP			
RP296EPS	POWER SUPPLY EXPANDER			
RP296EPSP00A	296EPS+128B2+Trs+Tam IMQ			
RP432EV0001C	LightSYS Voice Multi-language			
RP432EV00ITB	Voice Module, IT,DE			
RW132EVL000A	RW132EVL000A			
Wired Bus Detectors & Sirens				
RK515DTBGL0A	BWare Bus DT Grade 2, 15m			
RK515DTBG30A	BWare Bus DT AM Grade 3, 15m			
RK500QBG300A	BWare Bus QUAD AM Grade 3			
RK500QB0000A	BWare Bus QUAD Grade 2			
RK315DT0000C	WatchOUT Extreme DT + swivel			
RK315DT0000CCCC	WatchOUT Extreme DT + swivel	with CCC approval		



Part number	Description	Comments
RK315DT00USB	WatchOUT Extreme DT +Swivel,US	
RK315DT00FRB	WatchOUT Extreme DT+Swivel,FR	
RK312PR0000B	WatchOUT PIR	
RK312PR0000B	WatchOUT PIR	with CCC approval
RK350DT0000A	Beyond DT, Anti Mask	Coming soon
RK200DTG300D	Ind. LuNAR DT AM G3	
RK200DTG300DCCC	Ind. LuNAR DT AM G3	with CCC approval
RK200DTG3USD	Ind. LuNAR DT AM G3,US	Will be released soon
RK200DTG3USB	IND. LUNAR DT AM G3, US	
RK200DTG3DEC	Ind. LuNAR DT AM G3,DE	
RK66SW00000B	Seismic without MP & Tester	
RK66S000000B	Seismic with MP & Tester	
RK66M000000A	Mounting Plate for Seismic	
RK66K000000A	Keyhole Protection for Seismic	
RK66T000000A	Test Generator for Seismic	
RS200WAP000B	ProSound with Proximity	
RS200WA0000B	ProSound	
RS200LW0000A	ProSound External Lamp	
RS402CB0000A	Lumin8 Delta Cover, Blue	
	Wireless Devices	
RW132KL1P00A	2-Way Black Ext. WL Slim KP+Prox	Black Proximity keypad
		868 MHz
RW132KL2P00A	2-Way White Int. WL Slim KP+Prox	White Proximity keypad 868 MHz
RW132KL2P00H	2-Way White Int. WL Slim KP, 433 MHz	Black Proximity keypad 433 MHz
RW132KL1P00H	2-Way Black Ext. WL Slim KP, 433 MHz	Outdoor White Proximity keypad 433 MHz
RP432EW8000A	2 Zone Wireless Receiver, 868 MHz	
RP432EW4000A	32 Zone Wireless Receiver, 433 MHz	
RP432EW4000ACCC	32 Zone Wireless Receiver, 433 MHz	with CCC approval
RWX515PT080A	2 Way WL BWare Pet, 868 MHz	Coming soon
RWX515PR080A	2 Way WL BWare PIR, 868MHz	Coming soon
RWX515DTP80A	2 Way WL BWare DT Pet, 868 MHz	Coming soon
RWX515DT080A	2 Way WL BWare DT, 868 MHz	Coming soon



Part number	Description	Comments
RWX515PT040A	2 Way WL BWare Pet, 433 MHz	Coming soon
RWX515PR040A	2 Way WL BWare PIR, 433 MHz	Coming soon
RWX515DTP40A	2 Way WL BWare DT Pet, 433 MHz	Coming soon
RWX515DT040A	2 Way WL BWare DT, 433 MHz	Coming soon
RWT312PR800B	WL WatchOUT PIR, 868 MHz	
RWT312PR400B	WL WatchOUT PIR, 433 MHz	
RWT312PR400BCCC	WL WatchOUT PIR, 433 MHz	with CCC approval
RWX312PR800B	2-Way WL WatchOUT PIR, 868 MHz	
RWX312PR400B	2-Way WL WatchOUT PIR, 433 MHz	
RWX10680000A	1 & 2-Way WL Curtain PIR, 868 MHz	
RWX10640000A	1 & 2-Way WL Curtain PIR, 433 MHz	
RWX10640000ACCC	1 & 2-Way WL Curtain PIR, 433 MHz	with CCC approval
RWX73M8BR00B	2Way Door/Win Contact, 868 MHz, Brown	
RWX73M86800B	2Way Door/Window Contacts, 868 MHz	
RWX73F8BR00A	2-Way Multi Contact,868 MHz, Brown	
RWX73F86800A	2Way Multi-Function Contacts, 868 MHz	
RWX73M43300B	2Way Door/Window Contacts, 433 MHz	
RWX73F43300A	2Way Multi-Function Contacts, 433 MHz	
RWX34S86800A	Smoke & Heat Detector1&2 Way, 868 MHz	
RWX34S43300A	Smoke & Heat Detector1&2 Way 433 MHz	
RWT6C080000A	WL CO Detector 868 MHz	
RWT6C040000A	WL CO Detector 433 MHz	
RWT6GS80000A	WL GAS Detector 868 MHz	
RWT6GS40000A	WL GAS Detector 433 MHz	



Part number	Description	Comments
RWT6GS41100A	WL GAS Detector 433 MHz, 110V	
RWT6FW86800A	WL Flood Detector 868 MHz	
RWT6FW43300A	WL Flood Detector 433 MHz-White	
RW132KF1L00A	WL Long Range Keyfob 868 MHz	
RW132KF1L00H	WL Long Range Keyfob 433 MHz	
RW132KF1000A	4 Button Black Keyfob, 868 MHz	
RW132KF1000H	4 Button Black Keyfob, 433 MHz	
RWT54086800A	4 Button Zone Keyfob, 868 MHz	
RWT4RCP8000A	4 Button Panic Keyfob, 868 MHz	
RW132KF1000H	4 Button Black Keyfob, 433 MHz	
RW132KF2000A	2-Way WL Remote Control, 868 MHz	
RW132KF2000H	2-Way WL Remote Control, 433 MHz	
RWT52P86800A	2 Button Panic Keyfob, 868 MHz	
RWT52P433BRA	2 Button Panic Keyfob, 433 MHz BR	
RWT52P43300A	2 Button Panic Keyfob, 433 MHz	
RWT51P80000A	Wristband Panic Transmitter, 868 MHz	
RWT51P40000A	Wristband Panic Transmitter, 433 MHz	
RWS42086800A	WL Indoor Sounder, 868 MHz, Round	
RWS42043300A	WL Indoor Sounder, 433 MHz, Round	
	Wireless External Sirens	
RWS50R868UKA	WL External Sounder, Red 868 MHz UK	
RWS50B868UKA	WL External Sounder, Blue 868 MHz UK	
RWS20A86800A	Wireless ProSound, 868 MHz	
RWS52B86800A	Oval Ext. WL Sounder, Blue, 868 MHz	
RWS52A86800A	Oval Ext. WL Sounder, Amber, 868 MHz	



Appendix J: Installer Programming Maps

Installer Programming Menu

1) 6			
1) System			
1) Timers			
	01) Ex/En Delay 1		
	02) Ex/En Delay 2		
	03) Bell Timeout		
	04) Bell Delay		
	05) Switch Aux Break		
	06) Wireless		
	07) AC Off Delay		
	08) Guard Delay		
	09) Swinger Limit		
	10) Redial Wait		
	11) Last Exit Sound		
	12) Buzzer at Stay		
	13)Status Timer		
	14) Service Timer		
	16) Pulse Open		
	17) Inactivity Timer		
	18) T.O. Beeps		
2) Controls			
	1) Basic		
		01) Quick Arm	
		02) Quick UO	
		03) Allow Bypass	
		04) Quick Bypass	
		05) False Code Trouble	
		06) Bell Squawk	
		07) 3 Minute Bypass	
		08) Audible Panic	
		09) Buzzer → Bell	
		10) Audio Jamming	
		11) ExSt. Beep	
		12) Forced KSW	
		13) Arm Prewrn	
	2) Advanced		
		01) Dbl Verification Fire	
		02) Alarm ZE Cut	
		03) Code Grand Master	
		04) Area	
		05) Global Follow	
		06) Summer/Winter	
		07) 24 Hour Bypass	
		08) Technician Tamper	



	09) Technician Reset
	10) Engineer Tamper
	11) Low battery Arming
	12) Bell 30/10
	13) Fire Temporal Pattern
	14) IMQ Install
	15) Disable Incoming Calls
	16)Disable. Keypad Auto
	Arming
	17) Buzzer Delay
	18) Speaker=Buzzer
	19) Confirm Speaker
	20) Bell Confirmation
	21) Error Speaker Time On
	22) Tamper Report
	23) AC Trouble Arm
	24) Strobe Arm
	25) Final Night
	26) Stay Strobe
	27) Blank Display
3) Communication	
	1) Monitoring Station Enable
	2) Follow Me Enable
	3) CS Enable
	4) Cloud Enable
4) EN 50131	
	1) Authorize Installer
	2) Override Trouble
	3) Restore Alarm
	4) Mandatory Event Log
	5) Restore Troubles
	6) Exit Alarm
	7) Entry Alarm
	8) 20 minutes signal
	8) 20 minutes signal 9) Attenuation
5) PD6662:2010 (BS 8243:2010)	
5) PD6662:2010 (BS 8243:2010)	
5) PD6662:2010 (BS 8243:2010)	9) Attenuation
5) PD6662:2010 (BS 8243:2010)	9) Attenuation 1) Bypass Exit/Entry
5) PD6662:2010 (BS 8243:2010)	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable
5) PD6662:2010 (BS 8243:2010)	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable 3) Route Disable
5) PD6662:2010 (BS 8243:2010)	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable 3) Route Disable 4) Installer Confirmation
5) PD6662:2010 (BS 8243:2010)	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable 3) Route Disable 4) Installer Confirmation 5) Key switch Lock
5) PD6662:2010 (BS 8243:2010) 6) CP-01	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable 3) Route Disable 4) Installer Confirmation 5) Key switch Lock 6) Entry Disarm
	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable 3) Route Disable 4) Installer Confirmation 5) Key switch Lock 6) Entry Disarm 7) Proximity Disarm
	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable 3) Route Disable 4) Installer Confirmation 5) Key switch Lock 6) Entry Disarm
	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable 3) Route Disable 4) Installer Confirmation 5) Key switch Lock 6) Entry Disarm 7) Proximity Disarm 1) Exit Restart
6) CP-01	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable 3) Route Disable 4) Installer Confirmation 5) Key switch Lock 6) Entry Disarm 7) Proximity Disarm 1) Exit Restart
6) CP-01	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable 3) Route Disable 4) Installer Confirmation 5) Key switch Lock 6) Entry Disarm 7) Proximity Disarm 1) Exit Restart 2) Auto Stay
6) CP-01	9) Attenuation 1) Bypass Exit/Entry 2) Entry Disable 3) Route Disable 4) Installer Confirmation 5) Key switch Lock 6) Entry Disarm 7) Proximity Disarm 1) Exit Restart 2) Auto Stay 1) Anti Mask = Tamper



	_		
		3) Audible Proximity Tamper	
		4) Siren Aux = Tamp	
		6) RF wake-up	
		7) KF Instant Arm	
		8) KF Instant Stay	
		9) KF Dis+Code	
3) Labels			
	1) System		
	2) Partitions (1-32)		
4) Sounds			
	1) Tamper Sound		
	-	1) During Disarm	
		, ,	1) Silent
			2) Bell only
			3) Buzzer (main) only
			4) Bell + Buzzer
		2) During Arm	,
		_, _ um, _ mm	1) Silent
			2) Bell only
			3) Buzzer (main) only
			4) Bell + Buzzer
	2) Speaker Volume		4) Dell + Duzzei
	2) Speaker volume	1) T	
		1) Trouble	
		2) Chime	
		3) Exit/Entry	
	2) 747 1 7 4 6 1	4) Alarm	
	3) Wireless Lost Sound	0.7	
		1) Is trouble	
->		2) Is tamper	
5) Settings			
	1) DIP 2 Enable/Disable		
	2) Default Panel		
		With labels?	
	3) Erase Wireless		
	4) Standard		
		1) EN 50131 (G2)	
		2) PD6662:2010 (BS 8243:2010)	
		3) CP-01	
		4) EN 50131 (G3)	
	5) Customer		
		1) OEN	
		2) OIT	
		3) OIL	
		4) OHU	
		5) OUK	
		6) OSP	
	1	E) ODI	1
		7) OPL	
		8) OGR	



10) ORU 11) ONL 12) OFR 13) OCN 14) ODK 15) OCZ 16) OAU 17 OTH 18) ODE 18) ODE 19 Obe 1				
12) OFR 13) OCN 14) ODK 15) OCZ 16) OAU 17 OTH 18) ODE 18) ODE 18) ODE 19			10) ORU	
13) OCN 14) ODK 15) OCZ 16) OAU 17 OTH 18) ODE 18) ODE 19) O			11) ONL	
14) ODK			12) OFR	
15) OCZ 16) OAU 17 OTH 18) ODE 18) ODE 19 ODE			13) OCN	
16) OAU 17 OTH 18) ODE 18) ODE 19 ODE			14) ODK	
17 OTH 18) ODE 18) ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE 19 ODE			15) OCZ	
18) ODE			16) OAU	
6) Language 1) Text (language selection) 7) Licenses 1)View Licenses (total) 2) Downloaded licenses (update system) 8) Partition Quantity 6) Automatic Clock 1) Server 1) NTP 2) DAYTIME 2) Host 3) Port 4) Time Zone (GMT) 7) Service Info. 1) Name 2) Phone 8) Firmware Update 1) Server IP 2) Server port 3) File name 4) Download Files 1) Via IP			17 OTH	
1) Text (language selection) 7) Licenses 1) View Licenses (total) 2) Downloaded licenses (update system) 8) Partition Quantity 1) Server 1) NTP 2) DAYTIME 2) Host 3) Port 4) Time Zone (GMT) 7) Service Info. 1) Name 2) Phone 8) Firmware Update 1) Server IP 2) Server port 3) File name 4) Download Files 1) Via IP			18) ODE	
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4) Time Zone (GMT) 7) Service Info. 1) Name 2) Phone 8) Firmware Update 1) Server IP 2) Server port 3) File name 4) Download Files 1) Via IP		2) Host		
7) Service Info. 1) Name 2) Phone 8) Firmware Update 1) Server IP 2) Server port 3) File name 4) Download Files 1) Via IP		3) Port		
7) Service Info. 1) Name 2) Phone 8) Firmware Update 1) Server IP 2) Server port 3) File name 4) Download Files 1) Via IP		4) Time Zone (GMT)		
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1) Via IP		4) Download Files		
2) Via GPRS			1) Via IP	
			2) Via GPRS	

2) Zones				
1) Parameters				
	1) One By One			
		Label		
		Partition/s		
		Group/s		
		Type		
			00) Not used	
			01) Exit/Entry 1	
			02) Exit/Entry 2	
			03) Exit(OP)/Entry 1	
			04) Exit(OP)/Entry 2	
			05) Entry Follower	



T		
	06) Instant	
	07) I+ Exit/Entry 1	
	08) I+ Exit/Entry 2	
	09) I+Exit(OP)/Entry1	
	10) I+Exit (OP)/Entry2	
	11) I + Entry Follow	
	12) I+ Instant	
	13) UO Trigger	
	14) Day Zone	
	15) 24 Hours	
	16) Fire	
	17) Panic	
	18) Special	_
	19) Key switch	
1	20) Final Exit	
	21) Latch Keyswitch	
	22) EN.Foll + Stay	
	23) Pulsed Keyswitch Delay	
	24) Latch Keyswitch Delay	
	25) Tamper	
	26) Technical	
	27) Water	
	28) Gas	
	29) CO	
	30) Exit Term	
	31) High temp	
	32) Low temp.	
	33) Key box	
	34) Keyswitch Arm	
	35) Keyswitch Delayed Arm	
Arm sound		
	1) Silent	
	2) Bell only	
	3) Buzzer only	
	4) Bell + buzzer	
	5) Door chime	
Stay sound		
	1) Silent	
	2) Bell only	
	3) Buzzer only	
	4) Bell + buzzer	
	5) Door chime	
Disarm sound	.,	
_ iourn ooung	1) Silent	
	5) Door chime	
Termination	o) boot chille	
remination	1) N/C	
	1) N/C 2) EOL	
	,	
	3) DEOL	



		4) N/O	
		5) TEOL	
	Response		
		1) Normal, 400ms	
		2) Long, 1 sec.	
		3) Fast, 10ms	
		4) Extra fast, 1ms	
2) By Categ	ory		
	1) Label		
	2) Partition		
	3) Type		
		00) Not used	
		01) Exit/Entry 1	
		02) Exit/Entry 2	
		03) Exit(OP)/Entry 1	
		04) Exit(OP)/Entry 2	
		05) Entry Follower	
		06) Instant	
		07) I+ Exit/Entry 1	
		08) I+ Exit/Entry 2	
		09) I+Exit(OP)/Entry1	
		10) I+Exit (OP)/Entry2	
		11) I + Entry Follow	
		12) I+ Instant	
		13) UO Trigger	
		14) Day Zone	
		15) 24 Hours	
		16) Fire	
		17) Panic	
		18) Special	
		19) Key switch	
		20) Final Exit	
		21) Latch Keyswitch	
		22) EN.Foll + Stay	
		23) Pulsed Keyswitch Delay	
		24) Latch Keyswitch Delay	
		25) Tamper	
		26) Technical	
		27) Water	
		28) Gas	
		29) CO	
		30) Exit Term	
		31) High temp	
		32) Low temp.	
		33) Key box	
		34) Keyswitch Arm	
		35) Keyswitch Delayed Arm	
	4) Sound	,,	
l l	-, 504114		



1) At Arm 1) Silent 2) Bell only 3) Buzzer only 4) Bell-buzzer 5) Door chime 2) At Stay 1) Silent 2) Bell only 3) Buzzer only 4) Bell-buzzer 5) Door chime 2) Bell only 3) Buzzer only 4) Bell-buzzer 5) Door chime 3) At Disarm 1) Silent 2) Door chime 5) Termination 2) Door chime 5) Termination 1) N/C 2) EOL 3) DEOL 4) N/O 5) TEOL 6) Loop Response 1) Normal, 400ms 2) Long, 1 sec. 3) Fast, 10ms 4) Extra fast, 1ms 7) Advanced 1) Forced Arming 1) Enable 2) Disable 2) Pulsed Counter 3) Abort Alarm 1) Enable 2) Disable 4) Bus Zone Parameters 5) Wireless Zone Parameters				
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2) At Stay 1) Silent 2) Bell only 3) Buzzer only 4) Bell+buzzer 5) Door chime 1) Silent 2) Door chime 1) Silent 2) Door chime 2) EOL 3) DEOL 4) N/C 5) TEOL 6) Loop Response 1) Normal, 400ms 2) Long, 1 sec. 3) Fast, 10ms 4) Extra fast, 1ms 7) Advanced 1) Forced Arming 1) Enable 2) Disable 2) Pulsed Counter 3) Abort Alarm 1) Enable 2) Disable 4) Bus Zone Parameters 3) Resistance 4) Bus Zone Parameters 5) Wireless Zone Parameters 6) Wireless Zone				4) Bell+buzzer
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3) DEOL 4) N/O 5) TEOL 6) Loop Response 1) Normal, 400ms 2) Long, 1 sec. 3) Fast, 10ms 4) Extra fast, 1ms 7) Advanced 1) Forced Arming 1) Enable 2) Disable 2) Pulsed Counter 3) Abort Alarm 1) Enable 2) Disable 4) Bus Zone Parameters 5) Wireless Zone Parameters 5) Wireless Zone Parameters				
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4) Bus Zone Parameters 5) Wireless Zone Parameters 00) Custom 01) 2.2K, 2.2K 02) 4.7K, 6.8K, 12K				<u> </u>
5) Wireless Zone Parameters 3) Resistance 00) Custom 01) 2.2K, 2.2K 02) 4.7K, 6.8K, 12K			4) Bus Zone Parameters	
3) Resistance 00) Custom 01) 2.2K, 2.2K 02) 4.7K, 6.8K, 12K				
01) 2.2K, 2.2K 02) 4.7K, 6.8K, 12K	3) Resistance			
01) 2.2K, 2.2K 02) 4.7K, 6.8K, 12K		00) Custom		
02) 4.7K, 6.8K, 12K				
U3) 6.8K, 2.2K		03) 6.8K, 2.2K		
04) 10K, 10K				
05) 3.74K, 6.98K				
06) 2.7K, 2.7K		06) 2.7K, 2.7K		
07) 4.7K, 4.7K				
08) 3.3K, 4.7K				
09) 1K, 1K				
10) 3.3K, 3.3K		10) 3.3K, 3.3K		
11) 5.6K, 5.6K				



		12)2.2K, 1.1K	
		13) 2.2K, 4.7K	
2) Testing			
	1) Self Test		
		1) Times	
		2) Zones	
	2) Soak Test		
3) Cross Zones			
	Zone Crossing		
	Crossing Set		
	Pair		
		1) None	
		2) Ordered	
		3) Not ordered	
4) Alarm confirm			
	1) Confirm partition		_
	2) Confirm zones		

3) Outputs		
0) Follows Nothing		
1) Follows System		
	01) Bell follow	
	03) Comm. failure	
	04) Trouble follow	
	05) Low battery follow	
	06) AC loss follow	
	07) Sensors test	
	08) Battery Test	
	09) Bell Burglary	
	10) Scheduler	
	11) Switched Aux	
	12) GSM Error	
	13) Bell Test	
	14) Installation	
	15) Walk Test	
	16) Burglary	
	17) Panic	
	18) Fire	
	19) Special	
	20) 24 Hour	
2) Follows Partition		
	01) Ready follow	
	02) Alarm follow	
	03) Arm follow	
	04) Burglary follow	
	05) Fire follow	
	06) Panic follow	
	07) Special follow	



		_
	08) Buzzer follow	
	09) Chime follow	
	10) Exit/Entry follow	
	11) Fire Trouble	
	12) Day (Zone) Trouble	
	13) Trouble follow	
	14) Stay follow	
	15) Tamper follow	
	16) Disarm follow	
	17) Bell follow	
	18) Bell Stay Off	
	19) Zone Bypass	
	20) Auto Arm Alarm	
	21) Zone Loss Alarm	
	22) Bell Trigger	
	23) Strobe Trigger	
	24) Fail To Arm	
	25) Confirm Alarm	
	26) Duress follow	
	27) HU Confirm Alarm	
3) Follows Zone		
	1) Zone Follow	
	2) Alarm Follow	
	3) Arm Follow	
	4) Disarm Follow	
4) Follows Code		
	000) Grand	
	001) User	

4) Codes		
1) User		
	1) Partition	
	2) Authority	
2) Grand Master		
3) Installer		
4) Sub Installer		
5) Code Length		
	1) 4 digits	
	2) 6 digits	

5)Communication				
1) Method				
	1) PSTN (N/A)			
		1) Timers		
			1) PSTN Lost Delay	
			2) Wait Dial Tone	



	•			
		2) Control		
			1) Alarm Phone Line	
			2) Answering machine	
			override	
		2) Parameters		
			1) Dial Method	
			2) Rings To Answer	
			3) Area Code	
			4) PBX Prefix	
			5) Call Wait	
	2) GSM			
		1) Timers		
			1) GSM Lost	
			2) GSM Net Loss	
			3) SIM Expire	
			4) MS Polling	
				1) Primary
				2) Secondary
				3) Backup
		2) GPRS		
			1) APN Code	
			2) APN User Name	
			3) APN Password	
		3) Email	5) III IV I assword	
		5) Lilian	1) Mail Host	
			2) SMTP Port	
			3) Email Address	
			4) SMTP User name	
			5) SMTP Password	
		0.0 . 1		
		4) Controls		
			1) Caller ID	
		5) Parameters		
			1) PIN Code	
1			2) SIM Number	
			3) SMS Center Phone	
			4) GSM RSSI	
				1) Disable
				2) Low Signal
				3) High Signal
		6) Prepay SIM		
			1) Get Credit by	
				1) Credit SMS
				2) Credit Voice
				3) Service Cmnd
			2) Phone To Send	
			3) Phone To Receive	
			4) SMS Message	
	3) IP			
		1) IP Configuration		



1) Obtain IP 1) Dynamic ID 2) Static ID 2) Panel Port 3) Panel IP 4) Subnet Mask	
2) Static ID 2) Panel Port 3) Panel IP	
2) Panel Port 3) Panel IP	
3) Panel IP	
4) Subnet Mask	
5) Gateway	
6) DNS Primary	
7) DNS Secondary	
2) Email	
1) Mail Host	
2) SMTP Port	
3) Email Address	
4) SMTP Name	
5) SMTP Password	
6) Encryption	
1) No Encrypti	on
2) SSL	
7) IP channel	
3) Host Name	
4) MS Polling	
1) Primary	
2) Secondary	
3) Backup	
4) LRT	
1) Account	
2) System	
3) Periodic Test	
4) No Comm Parm	
5) Control	
1) Disable Low Battery	
2) Monitoring Station	
1) Report Type	
1) MS 1	
2) MS 2	
3) MS 3	
1) Voice	
1) PSTN/GSM	(N/A)
2) GSM/PSTN	(N/A)
3) PSTN Only ((N/A)
4) GSM Only	
2) IP	
1) IP/GPRS	
2) GPRS/IP	
3) IP Only	
4) GPRS Only	
3) SMS	
MS Phone Nur	nber
4)LRT	



			5) SIA IP	
				1) IP/GPRS
				2) GPRS/IP
				3) IP Only
				4) GPRS Only
	2) Accounts			
		1)Partition		
	3) Comm. Format			
		1) Contact ID		
		2) SIA		
	4) Controls			
		1) Call Save		
		2) Show Kissoff		
		3) Show Handshake		
		4) Audible Kissoff		
		5) SIA Text		
		6) Random MS Testing		
		7) SIA w/part		
	5) Parameters			
		1) MS Retries		
		2) Alarm Restore		
			1) On Bell Time out	
			2) Follow Zone	
			3) At Disarm	
		3) SIA IP Parameters		
			1) MS 1	
			2) MS 2	
			3) MS 3	
				1) Encryption Key
				2) Receiver Number
	6) MS Times			
		1) Periodic Test		
		2) Abort Alarm		
		3) Cancel Delay		
		4) Listen In		
		5) Confirmation		
			1) Confirm Start	
			2) Confirm Time	
	7) Report Split			
		1) MS Arm/Disarm		
			1) Do Not Call	
			2) Call 1st	
			3) Call 2nd	
			4) Call 3rd	
			5) Call All	
			6) 1st Bkup 2nd	
			7) 1st Bk 2nd 3rd	
			8) 1 Bk 3 Call 2	
			9) 2 Bk 3 Call 1	
		2) MS Urgent		
-	•		•	•



		1) Do Not Call	
		2) Call 1st	
		3) Call 2nd	
		4) Call 3rd	
		5) Call All	
		6) 1st Bkup 2nd	
		7) 1st Bk 2nd 3rd	
		8) 1 Bk 3 Call 2	
		9) 2 Bk 3 Call 1	
	3) MS Non Urgent		
	, ,	1) Do Not Call	
		2) Call 1st	
		3) Call 2nd	
		4) Call 3rd	
		5) Call All	
		6) 1st Bkup 2nd	
		7) 1st Bk 2nd 3rd	
		8) 1 Bk 3 Call 2	
		9) 2 Bk 3 Call 1	
8) Report Codes		9) 2 DK 3 Call 1	
8) Report Codes	1) E 1:4 C = 1 ==		
	1) Edit Codes	1) 41	
		1) Alarms	1) D
			1) Panic
			2) Fire
			3) Medical
			4) Duress
			5) Confirm Alarm
			6) Box Tamper
			7) Bell Tamper
			8) Recent Close
			9) HU Confirm.
		2) Main Troubles	
			01) Low Battery
			02) Bell
			04) AC Loss
			05) Aux
			06) Clk not set
			07) Bus trouble
			08) False code
			09) GSM trouble
			10) IP net trbl.
			11) MS 1 trouble
			12) MS 2 trouble
			13) MS 3 trouble
		3) Arm/Disarm	
			1) User
			GM (000)
			User: (001- - 499)
			· ' '
l			2) Automatic



				3) Remote	
				4) Force Arr	n
				5) Quick Ar	
				6) Keyswitc	h
				7) Auto Arn	
			4) Zones		-
			,	1) By zone	
					1) Alarm
					2) Trouble
					3) Bypass
				2) 7 1	4) Tamper
				2) Zone lost	
				3) Soak fail	
				4) Self test	
			5) Accessories	1) 77 1	1
				1) Keypad	1) Tamper
 				2) Zone	1) Tamper
				expander	
				- Puller	1) Tamper
				3) Utility	
				Output	
					1) Tamper
				6) Voice	
				module	1) Tamper
				7) Sounder	1) Tamper
				7) Sourider	1) Tamper
					2) Low bat
					3) Bell
					4) Aux
				8) WL	
				Expander	1) Tamper
					2) Jamm.
			6) Miscellaneous		<i>2)</i> juiiii.
			-, -, -, -, -, -, -, -, -, -, -, -, -, -	01) Enter pr	og.
				02) Exit pro	
				03) MS per.	
				04) Call bac	
				05) System 1	
				06) Abort al	
				07) Listen ir	
				08) MS polli	
				09) Cancel r	
				10) Walk tes	
<u> </u>				11) Exit erro	
<u> </u>				12) Fail Clo	
<u> </u>				13) Ent. Serv	
				14) Ex. Serv	
		2) Delete All		-, = oerv	
3) Configuration SW		z _j Delete Mi			
-, comingulation on	1) Security				
<u> </u>	1, Jecuity			<u> </u>	



	1			1
		1) Access code		
		2) Remote ID		
		3) MS Lock		
	2) Call Back Phones			
		1) Phone 1		
		2) Phone 2		
		3) Phone 3		
	3) Control	3) I Hone 3		
	5) Control	1) C 111 1		
		1) Call back		
		2) User initiated call		
	4) IP Gateway			
		1) IP Address		
		2) IP Port		
	5) Modem Protocol			
		1) V21		
		2) Bell103		
4) Follow Me				
	1) Define FM			
	(Select FM 01-64)			
	(501001 1111 01 -04)	1) Report Type		
		1) Report Type	1) 37-:	
			1) Voice	1) PSTN/GSM
				2) GSM/PSTN
				3) PSTN only
				4) GSM only
			2) Email	, ,
			Z) Ziittii	1) IP/GPRS
				2) GPRS/IP
				3) IP only
				4) GPRS only
			3) SMS	
		2) Partition		
		3) Events		
		() () ()	1) Alarms	
			1) 111111110	1) Intruder alarm
				2) Fire alarm
				3) Emergency alarm
				4) Panic alarm
				5) Tamper alarm
				6) Duress alarm
				7) Confirm alarm
			2) Arm/Disarm	
				1) Arm
				2) Disarm
			3) Troubles	
				01) False code
				02) Main low battery
				03) WL low battery
				04) Jamming
				05) WL lost
				06) AC off
		l		ooj AC on



			07) Bell trouble
			08) Bus trouble
			09) Siren low battery
			10) PSTN trouble
			11) IP network
		4) GSM	
			1)GSM trouble
			2)SIM trouble
			3)SIM expire
			4)SIM credit
		5) Environmental	
			1) Gas alert
			2) Flood alert
			3) CO alert
			4) High temp.
			5) Low temp
			6) Technical
		6) Miscellaneous	,
	1	e, miceinifeous	1) Zone bypass
			2) Periodic test
			3)Remote
			programming
	4) Restore Events		
		1)Alarms	
			1) Intruder alarm
			2) Tamper alarm
		2) Troubles	
			01) Main low battery
			02) WL low battery
			03) Jamming
			04) WL lost
			05) AC off
			06) Bell trouble
			07) Bus trouble
			08) Siren low battery
			09) PSTN trouble
			10) IP network
		3) GSM	
			1) GSM trouble
		4) Environmental	
		,	1) Gas alert
			2) Flood alert
			3) CO alert
			4) High temperature
			5) Low temperature
			6) Technical
	5) Remote Control		.,
	, Control	1) Remote Listen	
		2) Remote Program	
2) Controls		,	
 ,			1



		1)Disarm Stop FM	
		2) Disbl. report at Stay	
	3) Parameters		
		1) FM retries	
		2) Voice msg.	
		recurrence	
		3) Periodic Test	
5) Cloud			
	1) IP Address		
	2) IP Port		
	3) Password		
	4) Channel		
		1) IP Only	
		2) GSM Only	
		3) IP/GSM	
		4) GSM/IP	
	5) Controls		
		1)MS Call All	
		2)FM Call All	
		3)App Arm	
		4)App Disarm	
	6) IP Channel		
		1)Via LAN	
		2)Via WiFi (future use)	

6) Audio			
1) Messages			
	1) Common message		
		1) Play	
		2) Record	
	2) Zone		
		1) Play	
		2) Assign message	
	3) Partition		
		1) Play	
		2) Assign message	
	4) Output		
		1) Play	
		2) Assign message	
	5) Macro (A,B,C,D)		
		1)Play	
		2)Assign message	
	6) Library msg (1-5)		
		1) Play	
		2) Record	
2) Local Announce			
	1) Intruder		
	2) Fire Alarm		



3) Eme	ergency		
4) Pani	ic Alarm		
5) Tam	per Alarm		
6) Envi	ironmental		
7) Awa	ıy Alarm		
8) Stay	Alarm		
9) Disa	ırm		
10) Au	dible St.		
11) Ent	try/exit		
12) Au	to Arm		
13) Ou	tput		
14) Wa	lk Test		

7) Install				
1) Bus Device				
	1)Automatic (bus scan) 2)Manual			
		01) Keypad (number/type, delete)		
			Assign to partition(s)	
			Masking	
			Emergency	
		02) Zone Expander		
		(number/type, delete)		
			Resistance	
		03) Utility Output		
		(number/type, delete)		
		04) Power Supply		
		(number/type, delete)		
			Partition(s)	
				1) Bell/Loudspeaker
		05) Wireless Expander		
		(number/type, delete)		
			Box tamper	
		06) Prox. Key Reader		
		(number/type, delete)		
			Partition(s)	
				1) Instant Arm
				2) Show ready?
				3) Show arm?
				4) Show stay?
				5) Show bypass?
		07) Voice Module		
		(number/type, delete)		
			Phone code	
			Voice language	
		08) Sounder		
		(number/type, delete)		
			Partition(s)	



		-		
			Sound(s)	
		09) Bus Zone		
		(number/type, delete)		
		10) GSM		
		(number/type, delete)		
		11) IP		
		(number/type, delete)		
		12) Modem		
		(number/type, delete)		
		13) Bus Zone Expander		
		(number/type, delete)		
		14) LRT		
		(number/type, delete)		
	3) Testing			
		1) Bus Test		
		2) Bus Scan		
2) Wireless Device				
	1) RX Calibration			
		Choose receiver		
			Re-calibrate?	
	2) Allocation			
		1) By RF		
			1) Zone	
			2) Keyfob	
			3) Keypad	
			4) Sounder	
		2) By code		
			1) Zone	
			2) Keyfob	
			3) Keypad	
			4) Sounder	
	3) Delete			

8) Devices			
1) Keypad			
	1) Label		
		Assign to partition	
		Masking	
		1) Emergency	
		2) Multi view	
		3) Exit Beeps	
		4) Supervision	
	2) Partition		
		Assign to partition	
		Masking	
		1) Emergency	
		2) Multi view	
		3) Exit Beeps	



	T.	I 2		
		4) Supervision		
	3. Masking			
		Masking		
		1) Emergency		
		2) Multi view		
		3) Exit Beeps		
		4) Supervision		
	4) Controls			
		1) Emergency		
		2) Multi view		
		3) Exit Beeps		
		4) Supervision		
	5) Serial Number			
	6) Function Key			
		1)Disable		
		2)Panic		
		3)MS Listen Talk		
	7) UO Key 1			
	8) UO Key 2			
	9) UO Key 3			
2) Keyfob (1-Way) Button 1—4 options:				
	0) None			
	1) Arm			
	2) Disarm			
	3) Stay			
	4) Group			
	5) UO			
	6) Panic			
2) Keyfob (2-Way) Button 1—8:				
	1) Label			
	5) Serial No.			
	6) Masking			
	7) Controls→Panic			
	8) PIN Code			
	9-11) UO Key (1-3)			
3) Sounder				
	1) Parameter			
		01) Label		
		02) Masking		
		03) Strobe		
			1) Control	
				1) Always Off
				2) Follow Bell
				3) Follow Alarm
			2) Blink	
				1) 20[Times/Min]
				2) 30 [Times/Min]
				3) 40 [Times/Min]



				4) 50 [Times/Min]
				5) 60 [Times/Min]
			2) A C 1 (C) . 1	5) 60 [11mes/Min]
			3) Arm Squawk (Strobe Squawk)	
		04) Siren LED	Squawk)	
		04) SHEH EED	1) Always On	
			2) Always Off	
			3) Follow Arm	
			4) Follow Alarm	
		05) Battery Load Test	4) Follow Alarin	
		03) Battery Load Test	1) Never	
			2) Every 24 hours	
		0() Press I 1 Press	2) Every 24 flours	
		06) Prox. Lvl Response		
		07) Volume	1) Alarm	
			2) Squawk	
		00) I	3) Exit/Entry	
		08) Lamp	1) T	
			1) Type	
		00) P	2) Brightness	
		09) Power Source	1) C 4 D	
			1) SAB	
		10) 6: 6 1	2) SCB	
		10) Siren Current	4) 7	
			1) Low	
		10.11 0 14.0	2) Standard	
		11) Alarm Sound (1-4)		
		12) Serial Number		
	a) z	13) Supervision		
	2) Lamp Times	1) 7 0: :		
		1) Lamp Start		
		2) Lamp Stop		
() D				
4) Proximity Reader				
	1) Masking			
	2) Controls	4) 7		
		1) Instant arm		
		2) Show Ready 5) Show Omit		
		3) Show Set		
		4) Show Part Set		
	3)Label	i) onow i ait oct		
5) Power Supply	O/Lubei			
o, rower suppry	1) Masking			
	2) Controls			
	2) Collifols	1) Bell / L Speak		
		1) ben / L opeak		
0) Exit				
			l	1



Additional Installer Menus

Activities Menu				
Keypad Sound				
	Chime			
		Keypad Chime		
		Partition Chime		
	Buzzer On/Off			
Advanced				
	Service Mode			
	MS Test			
Follow Me Menu				
Define				
	Destination			
		Edit Phone No.		
	Label			
View Menu				
Trouble				
	Main: Low Battery			
	IPC: DHCP ERR			
	SIREN=01 Low Batt			
	SIREN=01 Batt Load			
Alarm Memory				
	All Partitions			
D state Co	Disarmed			
Partition Status				
7. C. I	(zone number)			
Zone Status	(1)			
Service Info	(zone number)			
Service into	Installer			
	System Version			
	Serial Number			
	Panel ID			
Clock Menu	Tanel ID			
Time and Date				
Scheduler	Weekly			
	(schedules 164)			
	(00110111110111111111111111111111111111	1) Arm/Disarm		
		,	1) ON/OFF	
			2) Partition	
			3) Arming Mode	
				1) Arm
				2) Stay
				3) Group (A, B, C, D)
			4) Day/ Time	
				1) Monday



		_		
				Arm/Disarm times
				2) Tuesday
				Arm/Disarm times
				3) Wednesday
				Arm/Disarm times
				4) Thursday
				Arm/Disarm times
				5) Friday
				Arm/Disarm times
				6) Saturday
				Arm/Disarm times
				7) Sunday
				Arm/Disarm times
				8) All
				Arm/Disarm times
			5) Label	
				Schedule label
	1		6) Inactive	
1	1	1	o, macure	Inactive Timer OFF/ON
	-		+	mactive Timer OFF/ON
		2) UO ON/OFF		
			1) ON/OFF	
				Schedule(s) ON/OFF
			2) Utility Outputs	
				Utility Outputs Y/N
			3) Day/Time	, , , , , , , , , , , , , , , , , , ,
			o) Buj/Time	1) Monday
				Start/Stop times
				2) Tuesday
				Start/Stop times
				3) Wednesday
				Start/Stop times
				4) Thursday
				Start/Stop times
				5) Friday
				Start/Stop times
				6) Saturday
				Start/Stop times
				7) Sunday
				Start/Stop times
				8) All
				Start/Stop times
			4) Vacation	1
		<u> </u>	,	UO Vacation Y/N
				Vac.start/stop times
		<u> </u>	5) Label	, ac.ourgotop times
			o, Laber	Schedule label
<u> </u>	1			ochedule label
		3) USER LIMIT		
			1)ON/OFF	
				Schedule ON/OFF
			2) Users number	
				00) Grand Master Y/N
	1			(01—) User
 	 	+	3) Day/Time	(31) 6361
			o, Day, Time	



				1) Monday
				Start/Stop times
				2) Tuesday
				Start/Stop times
				3) Wednesday
				Start/Stop times
				4) Thursday
				Start/Stop times
				5) Friday
				Start/Stop times
				6) Saturday
				Start/Stop times
				7) Sunday
				Start/Stop times
				8) All
				Start/Stop times
			4) Label	
				Schedule label
	One Time			
		Next Arm		
			Next Arm partition/s	
			Next Arm Time	
		N (D)	TVCXL7IIII TIIIC	
		Next Disarm	NT 1 1: 1: 1	
			Next disarm partition/s	
			Next disarm time	
Vacation				
	Partitions			
		(partition number/s)		
	Dates	4		
		Start time & date		
		Stop time & date		
Event Log Menu				
Event/s				
Evenus				
	Event code/time/date			
Maintenance Menu				
Walk test				
walk test	T. 11 T. 11 T			
	Full Walk Test		+	
		Results (per event)		
	Quick Walk Test			
		Results per zone		
Keypad test				
Siren test				
Strobe test				
Wireless test				
	Keyfobs			
	Rey1005	C		
		Communication Test		
		Battery Test		
	WL Sirens			
		Communication Test		
		Battery Test		



Main battery test				_	
0	Diagnostics				
1) Siren 1		Main battery test			
Zone Expander Select Zone Expander Zone Exp. Diagnostics Aux (VDC)			0) Main Board		
			1) Siren 1		
Select Zone Expander			2) Siren 2		
Select Zone Expander		Zone Expander			
Siren			Select Zone Expander		
Siren Siren Select Siren Siren Diagnostics Battery voltage [VDC]			•	Zone Exp. Diagnostics	
Siren Select Siren Siren Diagnostics Start/stop Learn mode Siren Diagnostics Start/stop Learn mode Start Erase mode Start Lease mode					Aux (VDC)
Select Siren		Siren			
Siren Diagnostics Battery voltage [VDC]			Select Siren		
Battery voltage [VDC] Battery load [VDC]			ociect offeri	Siren Diagnostics	
Battery load [VDC] Aux voltage [VDC] Aux voltage [VDC] Aux voltage [VDC] Bell current [A] Charge current [mA] Lamp current [mA] Lamp current [mA] Lamp current [mA] Charge current					Battery voltage [VDC]
Aux voltage [VDC] Bell current [A] Charge current [MA] Lamp current [mA] Mere version New threshold Signal (0-5) New threshold Mere version Mere v					
Bell current [A] Charge current [mA]					
Charge current [mA] Lamp current [mA]					
Lamp current [mA] Siren Version Siren Re-calibration? New threshold					
Siren Version Siren Re-calibration? New threshold					
Siren Re-calibration? New threshold				Cinna Manai	Lamp current [mA]
New threshold Signal (0-5) Sig					
GSM				Siren Re-calibration?	27 11 1 11
Signal (0-5) Version IMEI IP IP Address IP IP IP IP IP IP IP					New threshold
Version IMEI IP IP Address IP Address Version IMEI IP Address IP Addre		GSM			
IMEI					
IP			Version		
IP Address Version Version MAC Address			IMEI		
Version		IP			
MAC Address WM Version Panel Version Voice Version Keypad Version SEM Version Bus Zones Power Supply LRT Macro Menu Macro (A, B, C, D) Start/stop macro Standalone Keyfob Menu Select Receiver New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode			IP Address		
WM Version			Version		
WM Version			MAC Address		
Voice Version Keypad Version SEM VERSI		WM Version			
Keypad Version SEM Version Bus Zones Power Supply LRT LRT Macro Menu Start/stop macro Standalone Keyfob Menu Start/stop macro Select Receiver New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode Start Erase mode		Panel Version			
Keypad Version SEM Version Bus Zones Power Supply LRT LRT Macro Menu Start/stop macro Standalone Keyfob Menu Start/stop macro Select Receiver New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode Start Erase mode		Voice Version			
SEM Version Bus Zones Bu		Keypad Version			
Power Supply LRT Macro Menu Macro (A, B, C, D) Start/stop macro Standalone Keyfob Menu Select Receiver New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode					
Power Supply LRT Macro Menu Macro (A, B, C, D) Start/stop macro Standalone Keyfob Menu Select Receiver New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode		Bus Zones			
LRT					
Macro Menu Macro (A, B, C, D) Start/stop macro Standalone Keyfob Menu Select Receiver New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode					
Start/stop macro Standalone Keyfob Menu Select Receiver New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode	Macro Menu				
Start/stop macro Standalone Keyfob Menu Select Receiver New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode					
Standalone Keyfob Menu Select Receiver New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode	<i>γπαετο (π, Β, C, D)</i>	Chambleton			
Menu Select Receiver New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode		Start/stop macro			
New Keyfob Start/stop Learn mode Delete Keyfob Start Erase mode	Menu				
Start/stop Learn mode Delete Keyfob Start Erase mode	Select Receiver				
Delete Keyfob Start Erase mode		New Keyfob			
Delete Keyfob Start Erase mode			Start/stop Learn mode		
Start Erase mode		Delete Keyfob			
			Start Erase mode		
		Delete All			



FCC Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician.

FCC Warning

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.



RED Compliance Statement

Hereby, RISCO Group declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. For the CE Declaration of Conformity please refer to our website: **www.riscogroup.com**

Standard Limited Product Warranty ("Limited Warranty")

RISCO Ltd. ("RISCO") guarantee RISCO's hardware products ("Products") to be free from defects in materials and workmanship when used and stored under normal conditions and in accordance with the instructions for use supplied by RISCO, for a period of (i) 24 months from the date of delivery of the Product (the "Warranty Period"). This Limited Warranty covers the Product only within the country where the Product was originally purchased and only covers Products purchased as new.

Contact with customers only. This Limited Warranty is solely for the benefit of customers who purchased the Products directly from RISCO or from an authorized distributor of RISCO. RISCO does not warrant the Product to consumers and nothing in this Warranty obligates RISCO to accept Product returns directly from end users who purchased the Products for their own use from RISCO's customer or from any installer of RISCO, or otherwise provide warranty or other services to any such end user directly. RISCO's authorized distributor or installer shall handle all interactions with its end users in connection with this Limited Warranty. RISCO's authorized distributor or installer shall make no warranties, representations, guarantees or statements to its end users or other third parties that suggest that RISCO has any warranty or service obligation to, or any contractual privy with, any recipient of a Product.

Remedies. In the event that a material defect in a Product is discovered and reported to RISCO during the Warranty Period, RISCO shall accept return of the defective Product in accordance with the below RMA procedure and, at its option, either (i) repair or have repaired the defective Product, or (ii) provide a replacement product to the customer.

Return Material Authorization. In the event that you need to return your Product for repair or replacement, RISCO will provide you with a Return Merchandise Authorization Number (RMA#) as well as return instructions. Do not return your Product without prior approval from RISCO. Any Product returned without a valid, unique RMA# will be refused and returned to the sender at the sender's expense. The returned Product must be accompanied with a detailed description of the defect discovered ("**Defect Description**") and must otherwise follow RISCO's then-current RMA procedure published in RISCO's website at www.riscogroup.com in connection with any such return. If RISCO determines in its reasonable discretion that any Product returned by customer conforms to the applicable warranty ("**Non-Defective Product**"), RISCO will notify the customer of such determination and will return the applicable Product to customer at customer's expense. In addition, RISCO may propose and assess customer a charge for testing and examination of Non-Defective Product.

Entire Liability. The repair or replacement of Products in accordance with this Limited Warranty shall be RISCO's entire liability and customer's sole and exclusive remedy in case a material defect in a Product is discovered and reported as required herein. RISCO's obligation and this Limited Warranty are contingent upon the full payment by customer for such Product and upon a proven weekly testing and examination of the Product functionality.



Limitations. This Limited Warranty is the only warranty made by RISCO with respect to the Products. The warranty is not transferable to any third party. To the maximum extent permitted by applicable law, this Limited Warranty shall not apply and will be void if: (i) the conditions set forth above are not met (including, but not limited to, full payment by customer for the Product and a proven weekly testing and examination of the Product functionality); (ii) if the Products or any part or component thereof: (a) have been subjected to improper operation or installation; (b) have been subject to neglect, abuse, willful damage, abnormal working conditions, failure to follow RISCO's instructions (whether oral or in writing); (c) have been misused, altered, modified or repaired without RISCO's written approval or combined with, or installed on products, or equipment of the customer or of any third party; (d) have been damaged by any factor beyond RISCO's reasonable control such as, but not limited to, power failure, electric power surges, or unsuitable third party components and the interaction of software therewith or (e) any failure or delay in the performance of the Product attributable to any means of communication provided by any third party service provider, including, but not limited to, GSM interruptions, lack of or internet outage and/or telephony failure. BATTERIES ARE EXPLICITLY EXCLUDED FROM THE WARRANTY AND RISCO SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN RELATION THERETO, AND THE ONLY WARRANTY APPLICABLE THERETO, IF ANY, IS THE BATTERY MANUFACTURER'S WARRANTY. RISCO does not install or integrate the Product in the end user's security system and is therefore not responsible for and cannot guarantee the performance of the end user's security system which uses the Product or which the Product is a component of.

This Limited Warranty applies only to Products manufactured by or for RISCO. Further, this Limited Warranty does not apply to any software (including operating system) added to or provided with the Products or any third-party software, even if packaged or sold with the RISCO Product. Manufacturers, suppliers, or third parties other than RISCO may provide their own warranties, but RISCO, to the extent permitted by law and except as otherwise specifically set forth herein, provides its Products "AS IS". Software and applications distributed or made available by RISCO in conjunction with the Product (with or without the RISCO brand), including, but not limited to system software, as well as P2P services or any other service made available by RISCO in relation to the Product, are not covered under Limited Warranty. Refer https://riscocloud.com/ELAS/WebUI/UserLogin/License for details of your rights and obligations with respect to the use of such applications, software or any service. RISCO does not represent that the Product may not be compromised or circumvented; that the Product will prevent any personal injury or property loss by burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce the risk of a burglary, robbery or fire without warning, but it is not insurance or a guarantee that such will not occur or will not cause or lead to personal injury or property loss. CONSEQUENTLY, RISCO SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON ANY CLAIM AT ALL INCLUDING A CLAIM THAT THE PRODUCT FAILED TO GIVE WARNING



EXCEPT FOR THE WARRANTIES SET FORTH HEREIN. RISCO AND ITS LICENSORS HEREBY DISCLAIM ALL EXPRESS, IMPLIED OR STATUTORY, REPRESENTATIONS, WARRANTIES. GUARANTEES, AND CONDITIONS WITH REGARD TO THE PRODUCTS, INCLUDING BUT NOT LIMITED TO ANY REPRESENTATIONS, WARRANTIES, GUARANTEES, AND CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS. TO THE EXTENT PERMITTED BY LAW. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, RISCO AND ITS LICENSORS DO NOT REPRESENT OR WARRANT THAT: (I) THE OPERATION OR USE OF THE PRODUCT WILL BE TIMELY, SECURE, UNINTERRUPTED OR ERROR-FREE: (ii) THAT ANY FILES, CONTENT OR INFORMATION OF ANY KIND THAT MAY BE ACCESSED THROUGH THE PRODUCT SHALL REMAIN SECURED OR NON DAMAGED, CUSTOMER ACKNOWLEDGES THAT NEITHER RISCO NOR ITS LICENSORS CONTROL THE TRANSFER OF DATA OVER COMMUNICATIONS FACILITIES, INCLUDING THE INTERNET, GSM OR OTHER MEANS OF COMMUNICATIONS AND THAT RISCO'S PRODUCTS, MAY BE SUBJECT TO LIMITATIONS, DELAYS, AND OTHER PROBLEMS INHERENT IN THE USE OF SUCH MEANS OF COMMUNICATIONS. RISCO IS NOT RESPONSIBLE FOR ANY DELAYS, DELIVERY FAILURES, OR OTHER DAMAGE RESULTING FROM SUCH PROBLEMS. RISCO WARRANTS THAT ITS PRODUCTS DO NOT. TO THE BEST OF ITS KNOWLEDGE, INFRINGE UPON ANY PATENT, COPYRIGHT, TRADEMARK, TRADE SECRET OR OTHER INTELLECTUAL PROPERTY RIGHT IN ANY EVENT RISCO SHALL NOT BE LIABLE FOR ANY AMOUNTS REPRESENTING LOST REVENUES OR PROFITS, PUNITIVE DAMAGES, OR FOR ANY OTHER INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF THEY WERE FORESEEABLE OR RISCO HAS BEEN INFORMED OF THEIR POTENTIAL.



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Contacting RISCO Group

RISCO Group is committed to customer service and product support. You can contact us through our website (www.riscogroup.com) or at the following RISCO branches:

Australia	France	Spain
Tel: +542-991-1800	Tel: +33-164-73-28-50	Tel: +34-91-490-2133
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Tel: +32-2522-7622	Tel: +972-3-963-7777	Tel: +44-(0)-161-655-5500
support-be@riscogroup.com	support@riscogroup.com	support-uk@riscogroup.com
	T. 1	****
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This RISCO product was purchased from:			

