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GameOver

Prime

Anti-intrusion control panels and security systems

Programming manual

inim ELECTRONICS

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Table of contents

About this manual

DCMPINE0PRIMEE **MANUAL CODE**

1.40 **VERSION**

MANUAL FOR SYSTEM PROGRAMMING

The Programming manual contains instructions for the configuration and programming of the Prime system, as well as the descriptions of all the parameters and options, irrespective the means chosen for system programming (keypad, software, etc.).

It also contains the instructions for commissioning, maintenance and troubleshooting techniques.

Terminology 0-1

CONTROL PANEL, SYSTEM, DEVICE

Refer to the control panel or any constituent part of the Prime intrusion control system.

LEFT, RIGHT, BEHIND, ABOVE, BELOW

Refer to the directions as perceived by the operator when directly in front of the mounted device or computer screen.

QUALIFIED PERSONNEL

Persons whose training, expertise and knowledge of the products and laws regarding security systems, are able to create, in accordance with the requirements of the purchaser, the most suitable solution for the protected premises.

Click on a specific item on the interface (drop-down menu, options box, graphic object, etc.). **SELECT**

Click on a video button, or push a key on the control-panel keypad. **PRESS**

Graphic conventions 0-2

The notes contain important information relating to the text. **Note**

The “Attention” prompts indicate that total or partial disregard of the procedure could damage the device or its peripherals. **ATTENTION!**

Chapter 1 General information

1-1 Manufacturer's details

Manufacturer: INIM ELECTRONICS s.r.l.
Production plant: Centobuchi, via Dei Lavoratori 10
63076, Monteprandone (AP), Italy
Tel.: +39 0735 705007
Fax: +39 0735 704912
e-mail: info@inim.biz
Web: www.inim.biz

The persons authorized by the manufacturer to repair or replace the parts of this system have authorization to work on INIM Electronics brand devices only.

Programming from the Control panel

Chapter 2

The Prime system has been especially designed to be programmed either from a keypad (using one of the keypads connected to the control panel) or from a PC via Prime/STUDIO software.

All the options, functions and parameters of the Prime control panel must be programmed by qualified persons only.

The control panels are programmed at the factory with almost ready-to-go settings (“default settings”) which require only minor changes during the system customization phase. For example, all the zones, keypads and readers are assigned to (belong to) partition 1, alarm and tamper events related to partition 1 activate the relay output which is monostable set at 3 minutes (Monostable time = 3 minutes), etc.

LIMITATIONS

All the parameters and programming data can be set via keypad or PC (equipped with the Prime/STUDIO software) with the following limitations.

- From the keypad you cannot program:
  - timer exceptions
  - input calibration
  - BUS speed
  - description of Emergency keys
  - Ethernet communication parameters
  - PrimeLAN board parameters
  - GPRS, GSM and 3G communication parameters
  - Nexus communicator parameters
  - sounder/flasher tone
  - I-BUS Ivy-B parameters
  - Air2-Hedera wireless sounder/flasher parameters
  - programmable events
  - shortcut on event
  - output scenarios
  - configuration of cameras
  - configuration of graphic maps
- via the Prime/STUDIO software you cannot program:
  - DTMF sensitivity
  - the second Installer code
  - the installer code PINs
  - the shortcut descriptions
  - Air2-BS200 transceiver channel
  - calibration of the temperature read by the keypad thermometer

Programming via keypad 2-1

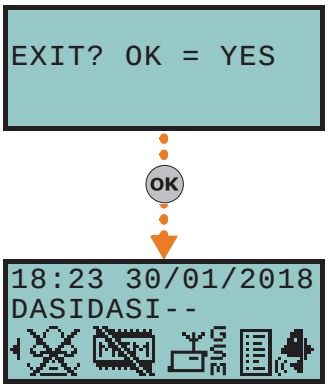
The programming of the control panel via one of the Prime system keypads can be carried out only after a valid access to the installer menu.

If you wish to program the system via the installer menu from a keypad and thus read/write the control panel parameters, you must:

1. Disarm all the control panel partitions.
2. Type-in the installer code Pin on a keypad then press **OK**.
   If you are working on an Alien keypad, you must first access the “Settings” section , type in the user code and access the “Installer section” then enter the Installer code.

Note

The PIN is “9999” at default.



3. The system will allow access to installer menu only after the entry of a valid PIN.

Once access to the installer menu is achieved, the system will:

- Block all system keypads except the one you are using.
- Broadcast the “PROGRAMMING” message to all the keypads.
- Force all the system keypads to standby status.
- Bring the call queue and events log to a temporary standstill, thus there will be no events saved to the log, no outputs activated and no outgoing calls.

To exit the installer menu, press **Esc** or **C** until the system asks: “EXIT? OK = YES”, therefore press **OK**.

Once you exit the installer menu, the control panel will:

- Apply all the new settings and values.
- Restore the I-BUS, reprogramme and make all the peripherals fully operational.
- Restore the call queue, and events log to normal operations.

2-2 Programming via Prime/ STUDIO software

For a description of the Prime/STUDIO software and the instructions on how to use it, refer to the software manual.

Programming of certain parameters (concerning, for example, zones and outputs) via the Prime/STUDIO software is possible only when the entire project of the system has been completed.

1. Open a system solution (**Open** button on menu).
2. First select the element to be programmed using the buttons on the left and then customize the programming parameters in the relevant section that appears on the right.
3. Connect your computer to the system.
4. Write the data on the control panel by clicking on the **Write** button.

Note

If an error occurs during the writing phase, you must repeat the operation. Any data currently on the control panel will be overwritten.

5. If required, save the solution (**Save** button) or print the details (**Print**button).

Programming peripherals

Chapter 3

Keypads 3-1

Setting up keypads in the system layout 3-1-1

Via software

Once the solution of the installation to be designed has been opened, access the “System layout” section on the right. Here you can select the keypad to be configured and add it to the configuration by double-clicking on the mouse.

In the section on the left, you can increase the number of keypads in the layout by clicking-on the Keypads button.

To remove a keypad from the structure, access the programming section by clicking on the corresponding key in the menu on the left then, from the list displayed, click on the **Delete** button that corresponds to the line of the keypad to be deleted.

Via keypad

`Type in Code (Installer), PROGRAMMING Keypads, Enable/Disable`

This section allows you to add/remove keypads from the configuration, by means of keys [*] and [#].

WIRELESS KEYPADS

The Prime system provides wizards for the enrolling of wireless keypads.

Via software

Click on the **Keypads** button on the menu on the left, the “Programming” section on the right will show the list of configured keypads.

Selecting “Keypad type” parameter for one of the keypads allows you to set the keypad concerned as “Wireless”. This operation makes visible:

- the **Enroll** button, which allows the start of the enrollment procedure.
- the “Wireless monitoring” section

  Pressing the **Start** button starts the monitoring process on the variation of the signal transmitted by the device and background noise detected over time.

Via keypad

`Type in Code (Installer), PROGRAMMING keypads, ChoosePeripheral "keypad", Wireless`

Once the **OK** button is pressed, it is necessary to work through the menu options and enroll the keypad.

Programming keypads 3-1-2

Programming of the keypads as peripherals of the Prime system can be performed either via software or by keypad.

Via software

Click-on the **Keypads** button on the menu on the left, the “Programming” section on the right will provide two sections.

- **Configured keypads**, with a list of all the configured keypads. By selecting one of these items it is possible to set the parameters of the single keypad by clicking on the button.
- **Keypad parameters**, section with parameters common to all the keypads.

Via keypad

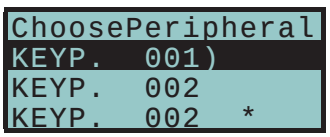
`Type in Code (Installer), PROGRAMMING Keypads, Enablements, ChoosePeripheral`

This section provides a list of the available keypads.

Alongside the description of the keypads the following symbols may appear:

- "<", that indicate the keypad in use
- "*", that indicates a keypad configured on the I-BUS

You can select a keypad for parameter programming from this list.



KEYPAD SETTINGS

The keypads of the Prime system also provide a section where you can set their parameters, for the customization and optimization of their use.

The complete description of the parameters in this section can be found in *paragraph 6-6-8 Keypad settings* in the user manual.

3-1-3 Keypad parameters

Table 3-1: Parameters common to all keypads

Parameter		Software section	Installer menu section
Wrong PIN keypad lockout	If a wrong code is typed-in at a keypad more than 5 times in succession, the keypad will lock for 10 minutes. If you reset the control panel or access programming while the keypad-lockout time is running, it will refresh to zero and start again.	**Keypad parameters**	Parameters, Keypad lockout
View open zones	The keypad will show the descriptions of any open zones (zones which are not in standby status) when the partitions disarm. Any autobypassable open-zones will be shown in white on a black background.		View open zones
Show scenario	The second line on the keypad displays will show the description of the active scenario.		Show scenario
Message repetitions on voice keypad	This refers to the number of times messages relating to the events are played vocally on the keypad (only for keypads with speakers). The playback phase can be stopped by pressing any button.		Parameters, Other parameters, LocKpadMessTimes
Press any key to end playback	If this option is enabled, message playback can be interrupted solely by pressing a button on the keypad.		LocKpadMessTimes, "255"

Table 3-2: Parameters for single keypads

Parameter		Software section	Installer menu section
Description	Description of the keypad (to be customized by the installer).	**Configured keypads , selected keypad**	Keypads, ChoosePeripheral, "keypad"
Keypad type	Check box for the selection of the keypad type: • Keypad with display and keys • Touch-screen keypad • Wireless keypad		Not available
Partitions	Section for the selection of the partitions the keypad can operate on.	**Configured keypads , selected keypad, General**	Keypads, ChoosePeripheral, "keypad"
Shortcuts	For each key, from F1 to F12, you can program the shortcut type which can be selected from among all the available shortcuts. When programming an Alien keypad, positions F1 - F12 refer to the positions in the list available in the “Scenarios” section of the Alien keypad you are working on.	**Configured keypads , selected keypad, General, Advanced**	Keypads, ChoosePeripheral, "keypad", F1/4KeyShortcuts
Shortcut parameter	You must specify a further parameter for each shortcut: • **Arm / Disarm** - the parameter this shortcut refers to will be one of the scenarios. • **Activate output** - the parameter this shortcut refers to will be one of the scenarios. • **Deactivate output** - the parameter this shortcut refers to will be one of the scenarios. • **Panic** - the parameter this shortcut refers to will be one of the scenarios.		Shortcut Func.keys, "Fx", Type
Shortcut options			Shortcut Func.keys, "Fx", Options
Requires code	If this option is enabled and a user selects the shortcut (by pressing the relative function key), the system will request entry of a user code before the activating the shortcut in question. If the system recognizes the entered user code, it will activate the shortcut command.		Requires code

Table 3-2: Parameters for single keypads

Code entry in the event of security risk	if this option is enabled and the selected shortcut involves a scenario that disarms a partition, or switches a partition from Away mode to Stay mode, the security of your system will obviously be at risk, therefore, the system will request entry of a valid code.		SecurityRiskCode
Requires confirm operation	If this option is enabled when the user selects the shortcut via the relative function key, the system will request confirmation before actually activating the shortcut, confirmation is achieved by simply pressing the key. This option helps the user avoid accidental activations. This option is not available for Alien keypads.		Confirm
Temperature hysteresis	Enter the value of the hysteresis for the “Air conditioning” function of the selected keypad (if enabled). The entered value must be expressed in °C decimals (from a minimum of 0 to a maximum of 4).		Keypads, ChoosePeripheral, "keypad"
Disable temperature reading	If this option is enabled, the room temperature will not be flashed on the display. This option is valid only for keypads equipped with thermometers.		Keypads, ChoosePeripheral, "keypad", Options, Temperature off
Disable entry-time signal	This option enables/disables the buzzer during partition entry-time		NoEntryTimeSign.
Disable audible exit-time signal	This option enables/disables the buzzer during partition exit-time		NoExitTimeSignal
Audio signal on terminal T1 output	This option enables/disables the buzzer when terminal T1 on the keypad is activated as an output.		Beep on output
Disable chime	This option enables/disables the buzzer that signals the violation of the bell zone of the keypad.		Disable Chime
LED OFF in stand-by	If enabled, in the event of inactivity on the keypad for at least 40 seconds, the respective LEDs will go off.		LED OFF in standby
Bypass wireless supervision	If enabled, this option will inhibit control panel supervision of the wireless keypad.		NO Superv. WLS
Bypass tamper	If enabled, this option will inhibit wireless keypad tamper signalling on the control panel.		Disable tamp. WLS
Domotic Outputs enabling	Section for the selection of the outputs for home automation, that can be activated without a valid code (see *paragraph 6-2-1 Outputs activatable without authentication*).		Not available
Thermostat on keypad	This key directly accesses the programming section of the “Thermostat ON” event	**Configured keypads , selected keypad**	Events, Thermostat ON
Valid code at keypad	This key directly accesses the programming section of the “Valid code at keypad” event		Events, Valid Code
Temperature adjustment	This parameter allows you to enter the effective value of the room temperature read by an external thermometer. This value will replace the keypad temperature reading and thus allow you to correct the temperature sensor on the keypad you are working on (valid for keypads with temperature sensors only). The entered value must be expressed in °C decimals (for example, type in 252 if the temperature is 25.2 °C).	Not available	Other parameters, Temp. adjustment

Note

The “Listen-in” and “Arming status” shortcuts will have no effect if requested at a keypad.
If you are programming an Alien keypad, the only type of shortcut that functions is “Arm/disarm”.

TOUCH-SCREEN KEYPADS

The process of programming the graphic interface and maps on the Alien keypad must be done through the Prime/STUDIO software program.

Once you have selected the keypad you must select “Touch keypad” as its type. The “General” section, which is the same for all keypad types, appears with the following sections:

- “Alien graphics”, for the graphic interface setup (backgrounds, buttons, icons)
- “Alien maps”, for the configuration of the graphic maps which are accessed through the “Maps” option in the APPs” section *Chapter 20 Graphic map configuration*.

In order to change the Alien parameter settings, your computer must be connected to the USB port of the keypad.

Table 3-3: Touch-screen keypad parameters

Parameter		Software section
Communication port	This option allows you to select the connection port to the Alien user interface from those found by the PC.	**Configured keypads, selected keypad, Alien graphics**
Refresh	Key for the connection upgrades detected by the PC.	
Model	Check box for the selection of the Alien user interface model.	
Available Skin	Selection of skins available for the Alien user interface.	
Background	Button to display in the lower image only the background of the Alien keypad.	
All	Button to display the background of the Alien keypad complete with buttons.	
Default	Button to display the default skin for the selected theme.	
Clean	Button to clear the selected graphics.	
Write skin	Button to install the selected skin on the keypad.	
Write icons	Button to install the selected icon buttons on the keypad.	

The image at the bottom of the “Alien Graphics” section allows the display of the selected graphics for the Alien keypad

You can load an image from the PC by double-clicking on the background or button icons.

The image requirements depend on the device model:

- Alien/S skin:
  - - the background file must be a .jpg file with a maximum size of 120 kbytes, 480x272 pixels
  - - each of the 8 main buttons must be a .jpg file with a maximum size of 12 kbytes, 109x88 pixels
- Alien/G skin:
  - - the background file must be a .jpg file with a maximum size of 120 kbytes, 800x480 pixels
  - - each of the 8 main buttons must be a .jpg file with a maximum size of 12 kbytes, 109x88 pixels

3-2 Proximity readers

3-2-1 Setting up readers in the system layout

Via software

Once the solution of the installation to be designed has been opened, access the “System layout” section on the right. Here you can select the reader to be configured and add it to the configuration by double-clicking on the mouse.

In the section on the left, you can increase the number of readers in the layout by clicking-on the Readers button.

To remove a reader from the structure, access the programming section by clicking on the relative key in the menu on the left then, from the list displayed, click on the **Delete** button that corresponds to the line of the reader to be deleted.

Via keypad

`Type-in Code (Installer PIN) , PROGRAMMING Readers , Enablements`

This section allows you to add/remove readers from the configuration, by means of keys [*] and [#].

WIRELESS READERS

During the enrolling phase the Air2-BS200 wireless transceiver is integrated into the Prime system by simulating:

- a reader, with the address programmed via the module itself (ADD), by means of buttons P1 and P2 on the PCB (for details refer to the Module manual)
- up to 10 expansions, at addresses ADD, ADD+1, ... ADD+9, to manage terminals and to be configured using the “System Layout” page in the Prime/STUDIO software.

Via software

Once the reading procedure has been carried out from the control panel, clicking on the **Proximity readers** button in the menu on the left in the “Programming” section opens the list of configured readers. The reader simulated by the Air2-BS200 transceiver is the one with the “ADD” address set by the module itself.

Type-in Code (Installer PIN) , PROGRAMMING Readers , ChoosePeripheral

Via keypad

In the list of configured readers, the reader simulated by an Air2-BS200 has a“W” at the end of its description.

Programming readers 3-2-2

The programming of readers as peripherals of the Prime system can be carried out either via software or from a keypad.

Click-on the **Proximity readers** button on the menu on the left, the “Programming” section on the right will provide two sections:

Via software

- **Configured readers**, with the list of all the configured readers. Selecting one of these items allows you to set the parameters of the single reader by clicking on the button.
- **Reader parameters**, section with parameters common to all the readers.

Type in Code (Installer), PROGRAMMING Readers, Enablements, ChoosePeripheral

Via keypad

This section allows you to program the various options of the selected reader.

Reader parameters 3-2-3

Table 3-4: Parameters common to all readers

Parameter		Software section	Installer menu section
Reader Buzzers OFF	No reader buzzers will emit audible signals during running entry time, exit time, output time or pre-arm time.	**Reader parameters**	Parameters, Reader-BuzzersOFF
Programming the proximity reader address	This section allows you to program the addresses of the proximity readers.		Readers, Prog. address
LED codes of the addresses	This section allows you to view how the addresses are displayed on the LEDs.		Not available

Table 3-5: Parameters of single reader

Parameter		Software section	Installer menu section
Description	This is the name used to identify the reader, customizable by the installer.	**Configured readers, selected reader**	Readers, Chooseperiph-eral, "reader"
Partitions	Section for the selection of the partitions the reader can operate on.		
Type	You can assign a shortcut to each of the LEDs, selectable from those available: • None • Arm/Disarm • Stop alarms • Clear call queue • Delete memory • Activate output • Deactivate output • Overtime • Teleservice request • View faults	**Configured readers, selected reader, Shortcut**	Readers, Chooseperiph-eral, "reader", Short-cut, Type
Parameter	You must specify a further parameter for each shortcut: • **Arm / Disarm** - this parameter refers to one of the available scenarios • **Activate output** - the parameter this shortcut refers to will be one of the scenarios. • **Deactivate output** - the parameter this shortcut refers to will be one of the scenarios. • **Panic** - this parameter will be one of the 15 panic events		
Valid key at reader	This button accesses directly the programming section of the “Valid key at reader” event	**Configured readers, selected reader**	Events, Valid-KeyAtReader

In the case of a reader simulated by the Air2-BS200 transceiver, the parameters of the wireless system are available in the section reserved for wireless receivers (refer to *paragraph 3-6 Wireless transceivers*)..

3-3 Expansions

3-3-1 Setting up expansions

Via software

Once the solution of the installation to be designed has been opened, access the “System layout” section on the right. Here you can select the expansion to be configured and add it to the configuration by double-clicking on the mouse.

The section on the left allows you to indicate the number of expansions via the respective button.

To remove an expansion from the structure, access the programming section by clicking on the relative key in the menu on the left then, from the list displayed, click on the **Delete** button that corresponds to the line of the expansion to be deleted.

Via keypad

`Type-in Code (Installer PIN) , PROGRAMMING Expansions, Enablements`

This section allows you to add/remove expansions from the configuration, by means of keys [*] and [#].

WIRELESS EXPANSIONS

During the enrolling phase the Air2-BS200 wireless transceiver is integrated into the Prime system by simulating:

- a reader, with the address programmed via the module itself (ADD), by means of buttons P1 and P2 on the PCB (for details refer to the Module manual)
- up to 10 expansions, at addresses ADD, ADD+1, ... ADD+9, to manage terminals and to be configured using the “System Layout” page in the Prime/STUDIO software.

Via software

To identify an expansion as “wireless”, it must first be configured as described above, in the same way as the hardwired expansions.

Following that, click-on the **Terminals** button. The “Programming” section on the right will show the diagram of the terminals of the entire system.

Right click-on the expansion previously added to the configuration and select “Wireless” to qualify it as such. The “Wireless”.symbol will appear on the image of the expansion. The configuration is completed by enrolling the wireless devices.

Via keypad

`Type in Code (Installer), PROGRAMMING Terminals, select a terminal of an expansion`

```
Terminals 12345
EXPAN. XYZ  IIII
Expans. XYZ T01
Wireless
```

The [6 mno] button enables the wireless attribute on the terminal (and consequently on the entire expansion). The “Wireless” string will be shown on the bottom line of the display. If you press key [6 mno] again, the entire operation will undo.

3-3-2 Programming expansions

Programming of expansions as peripherals of the Prime system can be performed either via software or from a keypad.

Via software

Click-on the **Expansions** button on the menu on the left, the “Programming” section on the right will show a list of configured expansions. By selecting one of these items it is possible to set the parameters of the single expansion by clicking on the button.

Via keypad

`Type in Code (Installer), PROGRAMMING Expansions, ChoosePeripheral`

This section allows you to program the various options of the selected expansion.

3-3-3 Expansion parameters

Table 3-6: Parameter single expansion

Parameter		Software section	Installer menu section
Description	Description string of the expansion (to be customized by the installer).	**Configured expansions, selected expansion**	`Expansions, ChoosePe-ripheral, "expansion"`
Beep on output	This option enables/disables the buzzer of the selected expansion when terminal T1, configured as an output, activates.		`Expansions, ChoosePe-ripheral, "expansion", Options`

Sounder/flashers 3-4

Setting up sounder/flashers 3-4-1

Via software

Once the solution of the installation to be designed has been opened, access the “System layout” section on the right. Here you can select the sounder/flasher to be configured and add it to the configuration by double-clicking on the mouse.

In the section on the left, you can increase the number in correspondence to the sounder/flashers button.

To remove a sounder/flasher from the structure, access the programming section by clicking on the corresponding key in the menu on the left then, from the list displayed, click on the **Delete** button that corresponds to the line of the sounder/flasher to be deleted.

Via keypad

`Type-in Code (Installer PIN) , PROGRAMMING Sounder/flashers, Enablements`

This section allows you to add/remove sounder/flashers from the configuration, by means of keys [*] and [#].

WIRELESS SOUNDER/FLASHER

The Prime system provides wizards for the enrolling of wireless sounder/flashers.

Via software

Click-on the **Sounder/flashers** button on the menu on the left then, from the “Programming - Configured Sounder/flashers” section, select the Sounder/flasher that is to be configured as “Wireless” by means of the appropriate check box. This operation makes visible:

- the **Enroll** button, which allows the start of the enrollment procedure.
- the “Wireless monitoring” section

  Pressing the **Start** button starts the monitoring process on the variation of the signal transmitted by the device and background noise detected over time.

Via keypad

`Type in Code (Installer), PROGRAMMING sounder/flashers, ChoosePeripheral "sounder/flasher", Wireless`

Once the **OK** button is pressed, it is necessary to work through the menu options and enroll the keypad.

Programming sounder/flashers 3-4-2

Programming of sounder/flashers as peripherals of the Prime system can be performed either via software or from a keypad.

Via software

Click-on the **Sounder/flashers** button on the menu on the left, the “Programming” section will provide two sections.

- **Configured sounder/flashers**, with a list of all the configured sounder/flashers. By selecting one of these items it is possible to set the parameters of the single sounder/flasher by clicking on the button.
- **Sounder/flasher pattern**, section with the programming parameters of the pattern types (tones). 8 modifiable patterns are available.

Via keypad

`Type in Code (Installer), PROGRAMMING Sounder/flashers, ChoosePeripheral`

This section provides a list of the available sounder/flashers. From this list it is possible to select a sounder/flasher for parameter programming.

Sounder/flasher parameters 3-4-3

Table 3-7: Parameters for single sounder/flasher

Parameter		Software section	Installer menu section
Description	Description string of the sounder/flasher (customizable by the installer).	**Configured sounder/flasher, selected sounder/flasher**	`Sounders, ChoosePeripheral, "sounder/flasher"`
Events	Button to open a window containing a list of the events which activate the sounder/flasher.		
Wireless	Check box for the assignment of the “Wireless” attribute to the selected sounder/flasher.		

Table 3-8: Ivy-B hardwired sounder/flasher parameters

Parameter			Software section
Real-time	Click-on the **Real-time** option to display the following real-time features of the sounder/flasher:		**Configured sounder/flasher, selected sounder/flasher, Real-time**
	Battery voltage	Voltage of the internal battery of the sounder/flasher.	
	Line voltage	Voltage detected on terminals 1 and 2 of the sounder/flasher.	
	Temperature	Internal temperature of the sounder/flasher read by the thermal probe.	
	Foam left/right	Values detected by the foam protection sensor (left/right).	
	Tamper	Value read by the open-panel sensor	
Sounder/flasher parameters	**Read sounder/flasher**	Clicking-on the **Read sounder/flasher** and **Write sounder/flasher** buttons will allow you to set the parameters of the sounder/flasher.	**Configured sounder/flashers, selected sounder/flasher, Sounder/flasher parameters**
	Write sounder/flasher		
	Default	Button to reset the factory default data	
	I-BUS loss signal delay	This is the time the sounder/flasher must wait before signalling the loss of the I-BUS signal (expressed in minutes).	
	Version	This is the firmware version of the sounder/flasher board.	
	Sounderflasher address	Dropdown box for the selection of the BUS address of the sounderflasher.	
	I-BUS loss Activation of LED input Power failure Open cover signalling Foam tamper signalling Blow-torch tamper signalling Horn fault Battery status	The check boxes in this section allow you associate one or more signals to each of the sounder/flasher events. The available signals are aligned with the wording of each event: • FAULT output • TAMPER output • STATUS LED • PRG LED • Flasher • Sounder	
	Audible signalling	Horn tone selection	
	Maximum audible signal time	This is the maximum time the sounder is allowed to emit the audible signal, however, the visual signals will continue until the device is reset.	
	STATUS LED ON	If this option is enabled, the STATUS LED will go On solid.	
	Flashes/minute	Selects the flash rate on the flasher.	
	Enable flasher LED input	Option to allow blinking on the STATUS LED and PRG LED activated by the LED input.	
	Monitor IBUS	If this option is enabled, the BUS will be monitored for one minute after each control panel reset operation and its status will be signalled on the PRG LED as follows: • On solid - BUS not connected • 1 flash per second - BUS connected but sounder/flasher not enrolled • 2 flashes per second - BUS connected and sounderflasher enrolled	
	TAMPER and FAULT outputs	This option allows you to select the type of contact (normally open or closed) of outputs during stand-by status.	
Temperature compensation	If the internal temperature of the sounder/flasher indicated in the “Real-time” section is incorrect, you can use this section to set the real temperature value and correct the parameter by means of the **Compensation** button.		**Configured sounder/flasher, selected sounder/flasher, Temperature compensation**

Table 3-8: Ivy-B hardwired sounder/flasher parameters

Sounder/flasher LED activations	**Activation cause x**	Each sounder/flasher LED (PRG or STATUS) has a maximum of 5 checkboxes which allow you to select the control panel event which activates the LED.	 **Configured sounder/flasher, selected sounder/flasher, Sounder LED activations**
	Inversion	If the "Inversion" option is not enabled, LED activation will occur when the event is active. If the "Inversion" option is enabled, LED activation will occur when the event is not active.	
Cause of deactivation of sounder and flasher	**Cause x**	There are a maximum of 5 check boxes which allow you to select a control panel event for the deactivation of the sounder and flasher.	 **Configured sounder/flasher, selected sounder/flasher, Cause of sounder and flasher deactivation**
	Inversion	If the "Inversion" option is not enabled, the sounder and flasher will deactivate on activation of the event. If the "Inversion" option is enabled, the sounder and flasher will deactivate on deactivation of the event.	

Table 3-9: Air2-Hedera wireless sounder/flasher parameters

Parameter			Software section
Real-time	Pressing the **Start** button initiates a 4 minute countdown during which the values of the following features of the wireless sounder/flasher will be shown:		 **Configured sounder/flasher, selected sounder/flasher, Real-time**
	Level / foam threshold **Level / tamper threshold**	It is possible to read on the bars the values (from 1 to 100) detected by the anti-foam and tamper sensors. You can adjust the alarm threshold by means of the programming fields at the side. The **Default** button allows you to reset the value to the factory settings.	
	Monitoring the wireless sounderflasher	This section allows you to view the status of the sounder/flasher (*paragraph 21-6 Monitoring sounder/flashers*).	
Sounder/flasher parameters	**Communication loss signalling**	It is possible to select when the sounder/flasher will signal communication loss with the control panel: • never • only when wireless jamming affects communication • each time communication is lost In the latter two cases it is necessary to indicate the**Wireless supervision time**, in minutes, after which if the communication continues to be absent the sounder/flasher will activate. The activation type can be defined in the same section (selection of the sound, duration, flash sequence, activation of the STATUS and PRG LEDs).	 **Configured sounder/flashers, selected sounder/flasher, Sounder/flasher parameters**
	Default	Button to reset the factory default data	
	Enable foam tamper signalling	If selected, it enables signalling from the anti-foam, open panel, dislodgement and battery inefficient sensors.	
	Enable anti-tamper signalling		
	Enable battery inefficient signalling		
	PRG/STATUS LED activation	Section where you can indicate the source (control panel or sounder/flasher) of PRG and STATUS LED activation. The selection of one of the two LED activation sources excludes the other.	
Sounder/flasher LED activations	**Activation cause** x	Each sounder/flasher LED (PRG or STATUS) has a maximum of 5 checkboxes which allow you to select the control panel event which activates the LED.	 **Configured sounder/flasher, selected sounder/flasher, Sounder LED activations**
	Inversion	If the "Inversion" option is not enabled, LED activation will occur when the event is active. If the "Inversion" option is enabled, LED activation will occur when the event is not active.	
Cause of deactivation of sounder and flasher	**Cause** x	There are a maximum of 5 check boxes which allow you to select a control panel event for the deactivation of the sounder and flasher.	 **Configured sounder/flasher, selected sounder/flasher, Cause of sounder and flasher deactivation**
	Inversion	If the "Inversion" option is not enabled, the sounder and flasher will deactivate on activation of the event. If the "Inversion" option is enabled, the sounder and flasher will deactivate on deactivation of the event.	
Monitoring wireless	Pressing the **Start** button starts a monitoring phase on the variation of the signal transmitted by the device and background noise detected over time.		 **Configured sounder/flashers, selected sounder/flasher, Wireless monitoring**

3-4-4 Programming the patterns

Table 3-10: Pattern parameters

Parameter			Software section
Description	• Burglary • Burglary low volume • Fire • Tamper • Pre-alarm • Automation • Squawk • Chime	Selection menu of the pattern to be programmed.	**Sounder/flasher pattern**
Tone	This is the audible signal the sounder will emit. To be selected from the 5 available tones.		
Time	This is the sounder activation time, expressed in seconds (from 1 to 127) or minutes (from 1 to 127)		
Volume	Sound level of the sounder/flasher.		
Flash type	• 36 flash/min • 46 flash/min • 56 flash/min • ON solid	Dropdown box for the selection of the flash rate (number of flashes per minute).	
Time	This is the flasher activation time, expressed in seconds (from 1 to 127) or minutes (from 1 to 127). If the event which activates the flasher indefinitely is a zone alarm, terminal tamper, partition alarm or partition tamper event, even memory reset operations will switch off the flasher.		
Activate sounder	Enable/Disable sounder activation		
Activate flasher	Enable/Disable flasher activation		
Activate STATUS LED	Enable/Disable activation of the STATUS LED		
Activate PRG LED	Enable/Disable activation of PRG LED		
Activate TAMPER output	Enable/Disable activation of TAMPER output		
Activate FAULT output	Enable/Disable activation of FAULT output		
Test	Buttons to start and stop a test on the pattern selected via the audio output of your PC and the image of the sounder/flasher on the left of the buttons.		
Stop			
Test pattern on sounder/flasher	**Test**	Buttons to start and stop a test on the selected pattern on the sounder/flasher selected from the list provided. This test requires an active connection with the control panel.	
	Stop		
	Button to reset the factory default pattern		Bar for the section menus

3-5 Programming the Nexus

The Nexus programming phase allows you to select which actions the control panel will implement on receiving a voice call/SMS message (from an authorized user) over the GSM network. Each command comprises a group of fully-programmable parameters.

Each time a user requests an operation - via a correctly formatted SMS message or voice call to the SIM card of the Nexus - the control panel will activate the respective shortcut/event and send confirmation (feedback) of the successfully implemented command.

Via software

The following parameters can be programmed solely via the PrimeSTUDIO software. Click-on the **Nexus** button on the menu on the left, then go to the “Programming” section on the right to set the respective parameters.

Note

INIM does not guarantee the total availability of all the GSM/GPRS functions described in this manual, due to the various combinations of GSM/GPRS service providers, SIM types and telephone models that may be in use.

SMS Commands

3-5-1

The “Programming - SMS Commands" section allows you to program up to 30 SMS-activated commands.

Double clicking on the line of a command opens a window where you can program the respective parameters.

Table 3-11: SMS command parameters

Parameter		Software section
Action	This identifies the number of the command in the table displayed.	**SMS Commands**
SMS text	This is the identification string to be included in the SMS command.	
Shortcuts	This field allows you to select one of the following shortcuts that the control panel can activate: • Arm/Disarm • Stop alarms • Clear call queue • Delete memory • Activate output • Deactivate output • Inhibit (bypass) control panel zones • Activate (unbypass) control panel zones • Nexus status • Credit inquiry • GPRS client	
Shortcut parameter	Selection menu for the parameter relating to the shortcut.	
Shortcut 2	Selection menu for the shortcut which is to be activated after the one selected above.	
Shortcut 2 parameter	As per “Shortcut parameter” but valid for the “Shortcut 2” command.	
Confirm	Identifies the type of command feedback: • **SMS** - feedback will be provided by an SMS text to the telephone number of the caller (command dispatcher). • **Ring** - feedback will be provided on the telephone of the caller (command dispatcher). Positive outcome will be indicated by a “ring”; negative outcome by “silence”. Feedback, whether by means of an SMS message or ring, will be provided only when the number of the telephone where the command was entered is known. Hidden numbers will not receive any kind of confirmation. • **Buzzer** - feedback is provided by an audible signal on the Nexus buzzer. Positive outcome is indicated by a three short audible signals; negative outcome is indicated by five long audible signals.	

COMMAND USING SMS TEXT

Users who wish to activate a command via SMS text must enter the command details as follows:

<xxxxxx> <SMS Text>

where:

- <xxxxxx> stands for the PIN of a control panel user
- a blank space must be keyed in after PIN entry
- <SMS Text> which is the command identifier, as previously described

EXAMPLE

If you want the control panel to activate “Scenario 3: Switch On the perimeter lights and confirm the operation via SMS text.” For an operation of this type, proceed as follows:

1. “SMS Text” - choose the desired description, for example “Night mode”
2. “Shortcut” - select the “Arm/Disarm” shortcut
3. “Shortcut option”: “Scenario 3”
4. “Shortcut 2” - select the “Activate output” shortcut
5. “Shortcut option 2” - output associated with the perimeter lights
6. “Confirm” - SMS

When a user keys in the following SMS text on a mobile (cellular) phone:

123456 Night mode

where “123456” stands for the User's PIN and this message is sent to the number of the SIM card of the Nexus, the control panel will carry out the requested operations and will send an SMS message of confirmation to the mobile phone of the caller who dispatched the command.

Night mode: command done!

DEFAULT COMMANDS

Commands are predefined by default but can be changed by the installer:

- “**CONNECT**” for a request for remote assistance via SMS text (future use).
- “**CREDIT**” - for balance inquiries relating to the SIM card of the Nexus, the user will receive an SMS text indicating the remaining credit.

- "**STATUS**" - for status inquiries relating to the Nexus, the user will receive an SMS text indicating the:
  - •• device name and firmware revision
  - •• GSM network provider
  - •• GSM signal reception level
  - •• device tamper status
  - •• BUS status
  - •• Balance (remaining credit)
  - •• scenario active (if present)
- "**EXC**" (or "**ESC**"), to inhibit the control panel zones
- "**INC**", to activate the control panel zones

For the last two commands, the message text must be:

<xxxxxx> EXC <zone description>

where:

- <xxxxxx> is the PIN of a control-panel user coded, followed by a blank space
- "EXC" (or "ESC" or "INC") is the command to be implemented on the zone, followed by a space
- <zone description> is the name zone to be inhibited or activated

3-5-2 Caller ID commands

The "Programming - Caller ID commands" section allows you to program up to 200 telephone numbers and the commands which will be implemented when each telephone number is recognized by the control panel. If a voice call is received from a telephone number, the command you select from those programmed in the "SMS Commands" section will be carried out.

Table 3-12: Call command parameters

Parameter		Software section
N°	This identifies the number of the command in the table displayed.	**Caller ID commands**
Name	This is the identification string of the command.	
Telephone number	This is the telephone number which, during a call to the Nexus, will activate the command.	
Access Codes	This field associates the user code with the telephone number. The code determines which partitions the telephone-number user can operate on.	
Actions	This is the number that identifies the command option selected from the 30 commands programmed in the SMS Commands section.	
Reject call	If enabled, when the telephone number calls, the Nexus, after rejecting the call, will carry out the command associated with the telephone number concerned. If disabled - when the telephone number calls, the Nexus will not reject the call but will allow it to proceed in such a way that the control panel can activate (if duly programmed) the dialer after the programmed number of rings.	
Receive diverted SMS	This option, when activated, enables the selected number to receive SMS messages diverted from the Nexus communicator which do not comply with the command-activation format. SMS "command" messages cannot be diverted.	

3-5-3 SMS message texts

The "Programming - Text for SMS messages" section allows you to edit up to 50 SMS text messages containing 80 alphanumeric characters each message. These messages can be associated with the events by means of the "SMS number" option described in *paragraph 12-1 Programming single events*.

In the section concerned, where SMS messages are listed in the column, you have the following parameters for each message:

- **N°**, which Identifies the number of the SMS message.
- **Text**, editable field for the SMS text message. Also indicated is the number of characters available.

Nexus module parameters 3-5-4

The “Programming - General parameters” section allows you to program some of the Nexus management functions, such as: low/remaining credit, input and output volume, disablement of tamper protection and the emergency signalling delay.

Table 3-13: General parameters of Nexus

Parameter		Software section	Installer menu section
Enable residual credit check	If this option is enabled, you must also program the method the Nexus will use to make remaining-credit inquiries to the GSM provider. • **Automatic** - the Nexus will make remaining credit inquiry to the GSM provider (regarding its own SIM) without need of programming. • **Manual** - the parameters of both the inquiry to the provider and the reply must be set up manually.	**General parameters, Remaining credit**	Non disponibile
Manual parameter - Request	• **SMS** - the remaining credit inquiry will be made via an SMS text sent by the Nexus to the provider. • **Call** - the remaining credit inquiry will be made via a call which will be diverted by the Nexus to the provider. • **Network command** - the remaining credit inquiry will be made via a special command made available by the provider. • **Credit request number** - this is the telephone number or network command (made available by the GSM provider) for remaining credit inquiries. This field must be programmed regardless of the type of manual mode selected (SMS, Call or network command). • **Credit request message** - this text will be sent to the above-mentioned number in order to obtain information regarding the remaining credit.		
Manual parameter - Answer via SMS	• **Answer number** - this is the telephone number (made available by the GSM provider) the remaining credit information will come from.This field must be programmed regardless of the selected manual mode (SMS, call or Network command). • **Answer message** - this is part of the SMS answer message used to filter the information. You must type in the text which precedes the numeric value of the residual credit.		
Low credit threshold	The remaining credit limit, expressed in local currency. If credit drops below this limit, the Nexus communicator will signal “Low credit”.		
Credit request interval	This is the interval, expressed in hours, which must pass between one automatic credit-inquiry and another.		
Balancing	This option allows you to rectify the correlation between incoming volume/outgoing volume.	**General parameters, Volume settings**	
Incoming volume	This option allows you to program the volume of the incoming signal to the Nexus and consequently, the volume of the signal received by the control panel.		
Outgoing volume	This option allows you to program the volume of the outgoing signal from the Nexus to recipient telephone devices.		
Disable tamper	If enabled, this option deactivates tamper signalling on the Nexus communicator.	**General parameters, Other parameters**	
Emergency signalling delay	This is the delay, expressed in seconds, the Nexus device applies before generating the “Nexus lost” event.		
Disable GPRS fault on keypads	If enabled, this option stops the control panel from signalling the occurrence of specific faults or GPRS connection trouble.		Parameters, Disab.GPRSfault
Fault signaling on insufficient GSM field	If enabled, this option generates a “Nexus fault” event when the GSM signal level is low or insufficient. If disabled, a low GSM signal level does not generate the fault event.		Low field enable

Note

The remaining credit control feature is subject to temporary or even permanent unavailability caused by changes in the implementation of the methods used by the GSM/GPRS service provider.
INIM provides device programming functions which may be capable of restoring this feature, by means of manual changes to the respective parameter settings.

3-5-5 GPRS connection parameters

The “Programming - GPRS Parameters” section provides the parameters necessary for setting up the GPRS connection for the remote GPRS connection with the control panel.

Table 3-14: GPRS parameters

Parameter		Software section
Access point name (APN)	This is the field for the name of the GPRS provider.	**GPRS parameters**
Advanced	This button opens a window for the user's name and password, sometimes required by the provider. If these details are not required, theses fields can be left blank.	

Note

These parameters are valid only when the control panel is equipped with a Nexus model with data transmission (Nexus/G, Nexus/3GU or Nexus/3GP).

3-6 Wireless transceivers

The Prime/STUDIO software has a section that allows you to view all the enrolled wireless devices and also set up the programming parameters of each single Air2-BS200 transceiver.

Via software

Click-on the **Wireless transceivers** button on the menu on the left, the “Programming” section on the right will show a template for each configured transceiver.

Each sub-section shows:

- the transceiver model
- the firmware version of the transceiver board
- the transceiver parameters
- a list of devices enrolled by the transceiver; for each device it shows:
  - the Icon
  - the terminals (where present)
  - the serial number
  - the model

Table 3-15: Menu bar for wireless transceivers

Key		Function
	Read	Button for reading from the control panel and writing on the control panel the data relative the configuration of the wireless transceivers. Clicking-on this button opens the “Wireless” window where you can select the transceivers from those configured.
	Write	
	Clone remote-control keys	This button starts the guided cloning process for the wireless keys enrolled by the transceiver of the selected reader. The guide allows you to indicate which transceiver, from those selectable, the cloned keys will be assigned to.
RF	This button starts an operation which attenuates (6db) the wireless signal transmitted by the transceivers for 5 minutes. During this period the installer can carry out tests on the stability of the RF connection under weak-signal conditions.	

3-6-1 Programming transceivers

Table 3-16: Wireless transceiver parameters

Parameter		Software section	Installer menu section
Channel	Section for the selection of the wireless communication channel to be used by the transceiver that simulates the reader undergoing programming: • **Channel 001**, 868.1MHz • **Channel 002**, 868.3MHz • **Channel 003**, 868.5MHz	**Wireless transceivers, Wireless**	Readers, ChoosePeripheral, "reader", Channel
Disable tamper protection	This option disables the Air2-BS200 transceiver tamper signal.		Readers, ChoosePeripheral, "reader", Options, Disable Tamper
Disable the Rolling Code	This option disables the rolling code algorithm for the transmission of wireless commands via the Air2-BS200 transceiver module. Deactivation can be useful to the installer when the same wireless command device is used on several systems.		Readers, ChoosePeripheral, "reader", Options, RollingCodeDisab

Programming from the Control panel

Chapter 4

Installer code 4-1

The installer code allows the installer to access the PROGRAMMING phase of the Prime system. In fact, the system will request the PIN before allowing any programming from a keypad via the installer menu or before allowing reading or writing operations from the Prime/STUDIO software, that is, if it has not already been entered in the appropriate field.

The installer can set 2 installer codes (one personal and another) exclusively by accessing the installer menu via a keypad:

Via keypad

`Type-in a valid code (Installer) , PROGRAMMING Installer code .`

Table 4-1: Installer code parameters

Parameter		Installer menu section
ChangeInst. PIN 1	For security reasons, you must change the PIN of the primary installer code (type-in twice). The PIN is “9999” at default.	`Installer Code`
ChangeInst. PIN 2	For security reasons, you must change the PIN of the secondary installer code (type-in twice). The PIN is “9998” at default.	
Inst.code 2	Use keys ▣ * and ☐ # to enable/disable the sections of the installer menu the secondary installer code can access.	

User code PINs must comprise 4, 5 or 6 digits.

Note

In this section, the secondary installer code can access Inst.CodePIN2 section only.

Via software

Any reading operations from the system or writing of software solutions on the Prime system will be executed only after the installer code has been correctly entered.

This option is made available by clicking on the **Panel parameters** button in the section on the left and accessing the “Programming - Installer code” section on the right.

Prime control panel 4-2

Table 4-2: Control panel definition

Parameter		Software section	Installer menu section
Control panel description	Edit field for the description of the control panel (max 50 alphanumeric characters).	 **Control panel parameters**	Not available
Serial number	Section where it is possible to view the univocal serial number of the control panel.		`Other parameters, Serial number`

Table 4-2: Control panel definition

“Cloud Mode”	If enabled, this option will apply a preset of some of the control panel parameters that would otherwise have to be programmed individually for connection to the Inim Cloud service. Refer to *paragraph 4-4 “Cloud mode” preset*.		Not available
Date/Time	Editable field for the system date and time.		User functions, Set date/time
Set local time	This button sets the local time of the PC in use.		Not available
Write on control panel	This button writes the local time of the PC on the control panel.		Not available

Table 4-3: Control panel options

Parameter		Software section	Installer menu section
Restart monostable outputs	If activated, each event which activates a monostable output refreshes the programmed “Monostable time”.	**Control panel parameters**	Parameters, RefreshMnstblOut
Does not arm if any of the zones are not ready	The control panel will not arm the partition if it detects any zones that are not in stand-by status. If, amongst the zones not in standby status, there are zones configured as “Autobypassable” or “No arm if not ready” (refer to *paragraph 6-1 Zones/Inputs*) they will be indicated on the keypad. If the user still arms the system, these zones will be inhibited automatically and the partitions they belong to will be armed.		OpenZonesArmLock
Bypass tamper in the event of bypassed zones	If a zone is bypassed (disabled), it will also be unable to generate terminal tamper.		BypassAlsoTamper
Prevents the deletion of tamper memory by user code	No user will be allowed to delete of the following events: • terminal tamper • control panel open-tamper • control panel dislodgement-tamper • peripheral tamper • peripheral loss • false key		NoUserTamp.reset
Instant reset of wireless magnetic contact	If this option is enabled, reset of the magnetic reed sensor of wireless detectors will be signalled instantly (otherwise signalling has a maximum delay of 10 seconds).		Instant restoral
Lock installer code	If this option is enabled, all the control panel parameters with the exception of the installer PIN will reset to the factory default settings after reset.		LockInstall.Code
Automatic Daylight Saving Time (DST)	The control panel clock will go back automatically one hour at 03:00 the first Sunday in October, and it will go forward automatically one hour at 02:00 the last Sunday in March.		DayLightSav.time
Use fault output for smoke sensor contamination	Enables management of the “Contaminated smoke detector” event. The “Output fault” and “Detector dusty” events share the same actions. Therefore, if either of these events occur, the system will send the calls and activate the outputs associated with the “Output fault” event. The events log provides the proper distinction between these two events: • in the event of an “Output fault”, the system will provide the description of the output in fault status • in the event of an “Detector dusty”, the system will provide the description of the detector that generated the event		Dust event enab.
Maintenance	You can start the maintenance session from the keypad without need of opening the control panel or moving the jumper. After exiting the Installer menu, you can operate on the system in the same way as when the control panel is placed in maintenance mode by means of the jumper. You must disable this option if you wish to put the control panel in “RUN” mode.		Maintenance
Check horn	The control panel will generate a “Sounder/flasher tamper” event when the passive horn disconnects from the relay (wire cutting tamper).		Tamper siren

Table 4-3: Control panel options

Squawk	This option activates the sounder for a brief period during partition stay/away arming and disarming operations. This audible signal indicates that these operations have been executed successfully.		Squawk on arming
Sound alarm on keypad	If enabled, all the system keypads will emit an audible signal in the event of an alarm or tamper event on any one of the partitions they belong to.		Alarm on keypads
Enable control panel anti-dislodgement	This option, enabled by default, provides protection against tamper on the control panel (tear-off and tilt detection).		Not available
Wireless supervision time	This parameter allows the selection of the supervision time of wireless devices. On expiration of the programmed time, any wireless devices which do not respond will be signalled as lost. Accepted values: 12 to 250 minutes.		Other parameters, Wireless superv.
Mains fault delay	This parameter allows you to program the delay, expressed in minutes, between an “AC Mains failure” event and “AC Mains failure” event signalling. Accepted values: 0 to 250 minutes.		Mains fail.Delay
Low battery delay	This parameter allows you to program the delay, expressed in minutes, which will be applied before “LowBattery” events are actually signalled after detection. Accepted values: 0 to 250 minutes.		LowBattery delay
BUS speed	This is the BUS communication speed (38.4 / 125 / 250 kbps).		Not available
Outgoing Telephone voice volume	This parameter allows you to select the volume level of outgoing voice messages during playback over the phone. Accepted values: 10 to 100 minutes.		Other parameters, OverThePhoneVol.
Incoming Telephone volume	This parameter allows you to select the volume level of the incoming telephone signal. This is a useful parameter for the understanding of DTMF tones. Accepted values: 1 to 80 minutes.		Tel. input gain
Cloud options	Parameter for selecting the communication channel with the Cloud: • Use LAN • Use Nexus If both are selected priority will be given to the LAN.		Cloud options

Programming IP parameters 4-3

The connectivity to the Prime control panel LAN is subject to the configuration of the network itself.

The manufacturer strongly recommends that you contact the network administrator for the correct configuration.

Table 4-4: IP connection

Parameter		Software section	Installer menu section
IP Address Subnet mask Gateway DNS Communication port	Connection parameters	**IP connection parameters, Connection parameters**	Other parameters, IP parameters
Web server port SSL port			Not available
Obtain an IP address automatically	If this option is enabled the above items are not required. The protocol used is DHCP.		Parameters, Enable DHCP
Enable UPnP	This option enables UPnP protocol which automatically activates “port-forwarding” through the network router of the communication, web and SSL ports.		Not available

Table 4-4: IP connection

Domain **User name** **Password**	If you have a dynamic public IP address, you may find it useful to use a domain name which will allow you to trace the LAN board at all times. Prime supports the service offered by: • dyndns.org • freedns.afraid.org • no-ip.com • camsec.net • inimdns.biz By registering at one of these addresses, you will obtain the access data required in this programming section:	 **IP Connection parameters, DNS dynamic**	Not available
Update every	This interval (expressed in seconds) will be applied by the LAN when updating the association of the selected domain with the public IP address.		Not available
Check DDNS account	This button start the DDNS account verification (for "inimdns.biz" service only).		Not available
Enable NTP synchronization	If enabled, the Prime control panel clock will be synchronized with NTP protocol, therefore, it will be necessary to indicate: • **Server** • **Update every** - this is the time, expressed in seconds, that elapses between successive time updates.	 **IP connection parameters, Configure NTP client**	Not available
Enable Modbus	If enabled, the Modbus/IP service on the LAN board will be activated; in this case it is necessary to indicate: • **Port** • **Access Codes**	 **Connection parameters, Modbus**	Not available
This section allows you to program the parameters of the IP connection test.		 **IP connection parameters, IP connection test parameters**	Not available
IP address **Port**	Pv4 Address and port connection attempts are directed to.		Not available
Interval	Time, expressed in seconds, between connection tests. If “0” is set, the connection test will be disabled.		Not available
Number of attempts	Number of connection attempts for each test.		Not available

4-4 “Cloud mode” preset

In order to make it easier for the installer to program a Prime panel registered with the Inim Cloud service, the software has an option that, if enabled, provides a preset of some of the control panel parameters that would otherwise have to be programmed individually.

If activated, the software will perform the following default programming: A preset of events of various types will be applied and must be communicated to the Cloud when they occur.

Table 4-5: Preset events for the Cloud

Event	Communication to Cloud in case of	
	Activation	Restoral
Zone alarm	Yes	Yes
Terminal tamper	Yes	Yes
Zone bypass	Yes	Yes
Effective arming mode on partition	Yes	No
Partition armed in Away mode	Yes	No
Partition disarmed	Yes	No
Overtime request	Yes	No
Partition failed to arm	Yes	No
Thermostat on keypad	Yes	Yes
Activate scenario	Yes	No
Emergency button	Yes	No
Panic	Yes	No
Open-panel tamper	Yes	Yes
Dislodged-panel tamper	Yes	Yes
Zone fuse fault	Yes	Yes

Event	Communication to Cloud in case of	
	Activation	Restoral
Reader Tamper	Yes	Yes
Sounder flasher tamper	Yes	Yes
Nexus tamper	Yes	Yes
Video detector tamper	Yes	Yes
Expansion Loss	Yes	Yes
Keypad Loss	Yes	Yes
Reader Loss	Yes	Yes
Sounder/flasher loss	Yes	Yes
Nexus loss	Yes	Yes
Video detector loss	Yes	Yes
Jamming	Yes	Yes
Low battery wireless zone	Yes	Yes
Wireless zone loss	Yes	Yes
Valid Installer code	Yes	No
Invalid code	Yes	No

Table 4-5: Preset events for the Cloud

Event	Communication to Cloud in case of	
	Activation	Restoral
I-BUS fuse fault	Yes	Yes
Battery fault	Yes	Yes
Mains failure	Yes	Yes
Expansion tamper	Yes	Yes
Keypad Tamper	Yes	Yes

Event	Communication to Cloud in case of	
	Activation	Restoral
False key	Yes	No
GSM fault	Yes	No
Input undergoing programming	Yes	Yes
Output fault	Yes	No
Low credit	Yes	No

Compliance 50131 grade 3 4-5

The Prime/STUDIO software provides a section for a configuration of the control panel that complies with grade 3 of 50131 regulations.

However, total respect of the said regulations is obtained by appropriately setting also the other options related to grade 2. For this purpose refer to *Chapter 19 Compliance with rules in force*..

Table 4-6: Parameters for compliance

Parameter		Software section	Installer menu section
This section allows you to select which faults or events, other than zones in alarm status, will be signalled as system security-risk conditions when the partition arms.		**Regulatory compatibility Forced arming faults**	Other parameters, FaultForNotReady
Zone fuse fault	The zone protection fuse on the control panel is not operational (blown)		Zone fuse fault
I-BUS fuse fault	The I-BUS protection fuse is not operational (blown)		IBUS fuse fault
Low battery	The backup battery is low		Low battery
Mains failure	The primary power supply 230V~ fails		Mains failure
Telephone line down	The land line is not working		Tel. line down
Jamming	Wireless interference detected		Jamming
Low battery wireless	The battery of a least one wireless detector must be replaced		Low battery WLS
Wireless zone loss	Loss of at least one wireless detector has been signalled (supervisory time expired)		WLS zone loss
Loss or tamper ongoing	This warning groups together the following events: • Control panel open • Dislodged panel • Expansion tamper • Keypad Tamper • Reader Tamper • Sounder flasher tamper • Nexus tamper • Expansion loss • Keypad Loss • Reader Loss • Sound.flash.Loss • Nexus loss		LossTamp.ongoing
GSM BUS fault	Nexus device fault		Nexus fault
Faults on zones	Violation has occurred on one or more zones with the “Fault zone” option enabled.		Faults on zones
Faults on sounder/ flashers	Fault present on one of the sounder/flashers		Faults on sounder/ flashers
Contaminated smoke sensor	The smoke chamber of at least one of the Air2-FD100 smoke detectors is contaminated by dirt or dust.	Not available	Detector dusty
General power-supply faults	Fault present on the power supply or one of the power sources	Not available	Power faults
Keypad faults	Fault present on one of the keypads	Not available	Keypad faults
IP connection lost	The IP connectivity test is enabled and the test has failed	Not available	IP conn. lost

Table 4-6: Parameters for compliance

50131 Grade 3 Compatibility	This option activates a presetting on the control panel which adheres to grade 3 of EN50131. • only the installer code can be used to delete fault memories • the readers lock for 10 minutes after 5 consecutive attempts to use a false key • the keypads lock for 10 minutes after 5 consecutive attempts to type in a false code (valid only when the “Lock keypad” option is enabled) • bypassed zones are automatically unbypassed when the system disarms • in the presence of ongoing faults and lost peripherals, arming operations will require installer code entry	**Regulatory compatibility, Parameters 50131**	Parameters 50131, Grade 3
Reader LED OFF	The readers LEDs will remain OFF when there are no keys near the readers themselves. As soon as a key is held near a reader and then immediately moved away, the reader will show the status of the LEDs for 30 seconds, after which it will switch OFF all the LEDs again. During this 30 second phase, the user can hold the key in the vicinity of the reader and select the desired shortcut indicated by LEDs.		50131ReaderLedOFF
Hide status	The status of the partitions will be hidden. If a valid code is entered at a keypad, the real-time status will be indicated on the keypad concerned for 30 seconds. If partitions are armed, the real-time status of the system will be hidden from non-authorized users. If the partitions are disarmed, the LEDs will function normally, the status icons will be present and the alarm and tamper events will be visible.		50131StatHidden
Hide icons	If partitions are armed, the status icons will be hidden from non-authorized users. If a valid code is entered at a keypad, the status of the icons will be shown for 30 seconds. The keypad will show the real-time status of the icons when all the keypad partitions are disarmed.		50131IconsHidden
Alarm delay	If an instant-zone alarm occurs on a partition while entry time is running, the associated actions (calls, output activation, save to log, etc.) will not be generated until 30 seconds after the expiry of the entry time. If the partition (or partitions) are disarmed during this period, the associated actions will not be generated, however, the keypads will indicate the violation of the instant zone.		50131AlarDelayed
Fault memory LED	If the control panel detects a fault, the yellow LED on the keypads will go On and will remain On even after the fault clears. To switch the yellow LED Off, clear all activating causes and reset the partition.		50131WarnLedMem

4-6 Control panel language

The Prime system allows you to select the language the system uses for the strings in the User and Installer menus for the descriptions of events, faults, etc.

Via keypad

`Type in Code (Installer), PROGRAMMING Language`

Use keys and to select the desired language and **OK** to confirm.

Obviously, after a change of language the descriptions of the various system elements such as the zones, partitions, outputs, codes, etc., will remain unchanged.

4-7 Updating the control panel firmware

Through a direct connection between the Prime/STUDIO software and the Prime control panel, it is possible to update the control panel firmware to the latest revision available at the time of the software release.

Via software

Click-on the **Firmware upgrade** button on the menu on the left, the “Programming” section will show the buttons for the updating procedure.

Click-on the **Prime panel** button. A section will open with the available updates and the Start procedure button.

ATTENTION!

In order to avoid invalidating the procedure, do not switch off or disconnect the PC or Prime control panel during the updating process.

Programming partitions

Chapter 5

The programming of the partitions of the Prime system can be performed either via software or from a keypad.

Click-on the **Partitions** button on the menu on the left, the “Programming” section will show a list of all the available partitions and their parameters. By selecting one of these items it is possible to set the parameters of the single partition by clicking on the button.

Via software

Via keypad

`Type-in Code (Installer PIN) , PROGRAMMING Partitions`

This section allows you to program the various options of the selected partition.

Partition parameters 5-1

Table 5-1: Parameters for single partitions

Parameter		Software section	Installer menu section
Description	This is the editable partition label (description).	**Partitions, selected partition**	`Partitions, "partition"`
Exit time	This is the Exit time window (programmable in seconds or minutes). If you set “0” in this field, there will be no Exit time. Therefore, any delayed zones belonging to the partition will generate alarms instantly if they are not in stand-by status when the partition is armed.		
Entry Time	This is the Entry time window (programmable in seconds or minutes). If you set “0” in this field, there will be no Entry time. Therefore, any delayed zones belonging to the partition will generate alarms instantly if violated when the partition is armed.		
Entry Time 2	This is the window for the second Entry time.		
Pre-arm time	This setting is the delay, expressed in minutes, which precedes automatic-arming on a partition.		
Patrol time	This is the time window for patrol operations (programmable in minutes).		
Timers	Select the timer you want to associate with the automatic-arming operations.		
Autoreset memory on arming	If enabled, the partition alarm and tamper memory will reset automatically when the partition arms.		`Partitions, "partition", Options, AutoresetMemories`
Auto-arm in stay mode	If enabled, the partition will arm in “Stay” mode at the programmed time. If disabled, the partition will arm in “Away” mode at the programmed time.		`Autoarm.STAYmode`
Clear call queue on disarm	If enabled, the call queue will clear when the partition disarms.		`StopTelOn Disarm`
Events button	At the bottom of the section are the buttons that directly access the programming section of the events associated with the selected partition.		`Events`

AUTOMATIC ARM/DISARMING

The association of a timer to a partition will allow it to arm or disarm automatically at the ON/OFF times set on the timer.

This function must be enabled or disabled for each individual partition.

`Type-in Code (User), Activations, Auto-arm`

This section lists the partitions on which to activate or not automatic arm/disarm operations by means of the [*] and [#] buttons.
Forced auto-arm operations may occur, generated by events active at the time of the auto-arm operation.

Chapter 6 Programming terminals

The terminals (with some exceptions) of the control panel, keypads and expansion boards can be configured as:

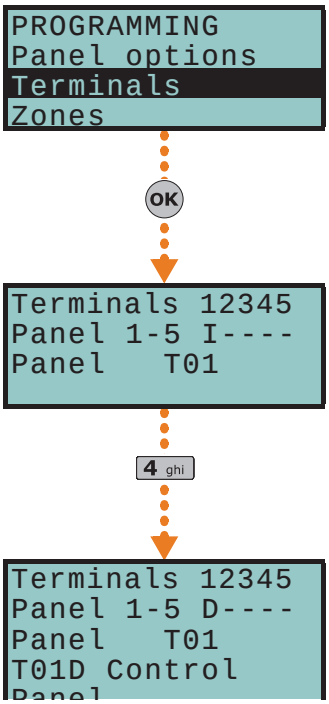
Table 6-1: Configuration of terminals

Configuration type	Software	Keypad
zone input		I
double zone input ("doubling")		D
output		O
Controlled output ("I/O", input-output)		H
unused		-

ATTENTION!

For critical events or events of particular importance, it is advisable to use keypad terminals T1 and T2 as the signal outputs. The status of these outputs may switch (On to Off and vice versa) in the event of BUS reset.

Via keypad



1. Access the "Programming Terminals" section.

`Type-in Code (Installer), PROGRAMMING Terminals`

The display will show the:

1° line: the number of terminals on the selected device
2° line: the selected terminal and the type of configuration
3° line: the description of the selected terminal
4° line: the description of the second zone of the selected terminal if this is set as a double zone or the string "Wireless" in the case of an expansion configured as such.

2. Use and to select the device whose terminals you wish to configure. The terminals are arranged as follows:

- terminals from 1 to 5 on the control panel
- terminals from 6 to 10 on the control panel
- terminals on expansion boards
- terminals on keypads

3. Use and to scroll across the terminals. The selected terminal will blink. The terminal setting is applied by pressing:

- 1 ., to configure the terminal as an input ("**I**")
- 2 abc to configure the terminal as an output ("**O**")
- 3 def to configure the terminal as a controlled output ("**H**")
- 4 ghi to configure the terminal as a double zone ("**D**")
- 5 jkl to configure the terminal as UNUSED ("**-**")
- 6 mno to enable/disable the terminal as wireless (only for expansion terminals)

4. After pressing the button that corresponds to the desired setting, it is necessary to press one of the buttons OK, , , , or to configure its type.

If an “Unused” terminal is configured as **I**, **O**, **H** or **D** and the keypad emits an audible error signal, it means that you have exceeded the maximum number of terminals available on the control panel. If you wish to employ the terminal concerned, you must first configure another terminal as “Unused”

5. Press the **OK** button in correspondence with any terminal, provided that it is not an “Unused” terminal, to access directly the Type programming parameters of the selected terminal, be it a zone or an output.

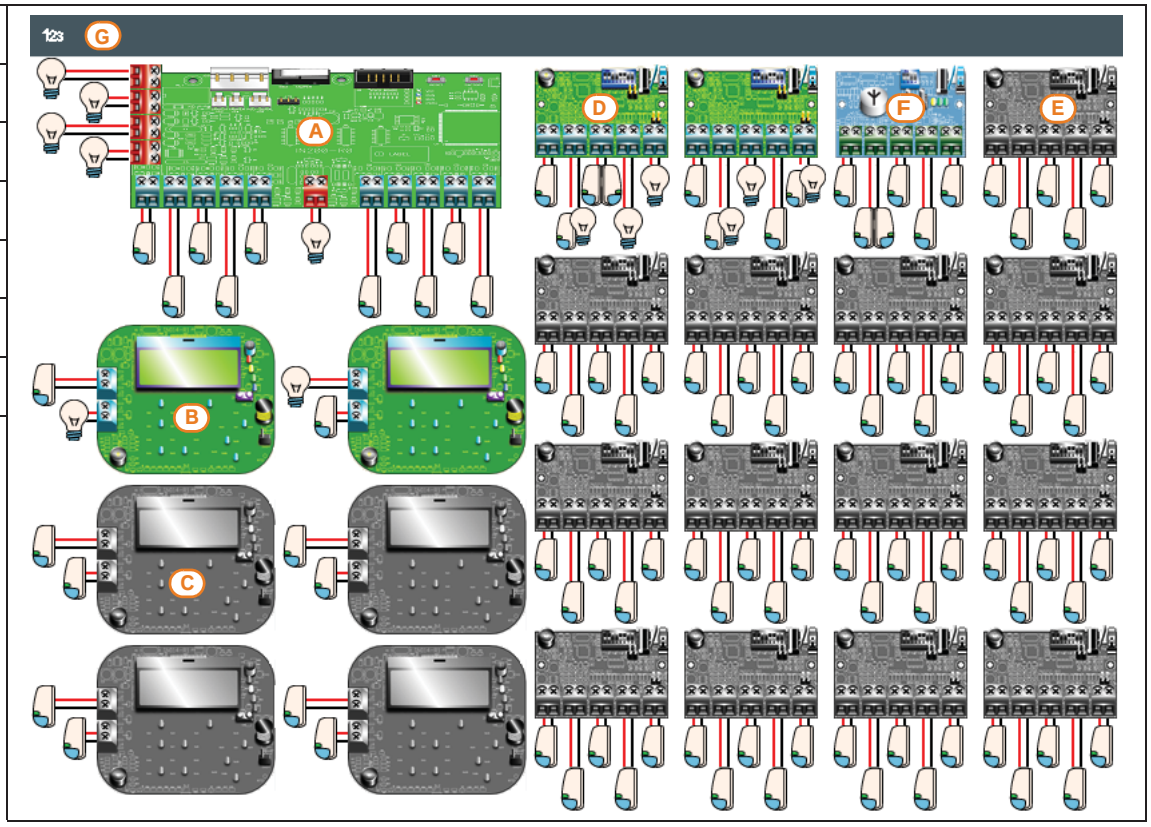
Via software

The **Terminal** button, on the menu on the left in the “Programming” section, accesses a layout of the installation and in particular all the terminals and their uses.

The terminals of the control panel and devices which are configurable via this section are shown on their respective PCB boards, where their screw terminals are highlighted. These boards can be either in colour or black and white depending on whether they have already been configured via the “System Layout” section (refer to *paragraph 5-2 Preparing a system layout*).

Table 6-2: Example of terminals undergoing programming

A	Prime control panel motherboard
B	Configured keypad board (in colour)
C	Non-configured key-pad board (in grey)
D	Configured expansion board (in colour)
E	Non-configured expan-sion board (in grey)
F	Wireless expansion board (on transceiver)
G	Menu bar for the termi-nals



Right clicking on any one of the PCBs allows you to assign a common setting to all the terminals on the selected board. Right clicking on a single terminal allows you to configure it separately.

Double clicking the icon of a terminal with an assigned configuration opens a window where you can program all the parameters of the selected terminal.

The terminals menu bar provides the **Rename the CCCs in sequential mode.** button. This button starts an operation that reassigns the Contact-ID code of each zone in such a way that they are all in sequential order.

6-1 Zones / Inputs

The terminal the zone is connected to must be configured as an “input”.

Via keypad

Type in Code (Installer), PROGRAMMING Terminals, select the terminal concerned configured as input (“**I**”)

or

Type in Code (Installer) , PROGRAMMING Zones , select the zone concerned

Via software


To program the zone, select the **Terminals** button. The “Programming” section on the right will show the graphic representation (map) of the terminals of the entire system.

Here, by double clicking on the terminal configured as a “zone” you enter programming.

or

Click-on the **Zones** button on the menu on the left, the "Programming" section will show a list of all the available zones and their parameters. By selecting one of these items it is possible to set the parameters of the single zone by clicking on the button.

Table 6-3: Zone parameters

Parameter		Software section	Installer menu section
Description	This is the editable label which identifies the zone. At default all the zones assume the description of the peripheral they refer to, followed by the respective terminal.	**Zones, selected zone**	Zones, "zone"
Type	Dropdown box for the selection of the zone type: Instant, Delayed, Viewable delayed, Route, 24hour, Technological, Arm, Disarm, Switch, Follow, Patrol.		
Balancing	Dropdown box for the selection of the balancing type (the options vary in accordance with the zone type). Normally open (NO), Normally closed (NC), Single balancing, Double balancing, Double zone (without EOL), Double zone (with EOL).		
Detector type	Generic zone, Roller blind, Shock		
Alarm cycles	Dropdown box for the selection of the number of alarm cycles (between 1 and 14). If you select “Unlimited”, the zone will operate as a “repetitive” zone.		
Wiring diagram	Button for to open a window showing the zone connection mode.		
Contact ID	Check box to indicate the Contact-ID code associated with the zone for the occurrence or restoral of events such as: • Zone alarm • Zone tamper • Zone bypass • Zone real-time		
Wiring diagram	Button for to open a window showing the zone connection mode.		Not available
Real-time	Section for the adjustment of zone detection thresholds. The thresholds can be modified via the number boxes or by using the bar which indicates the levels by means of colours: • yellow - tamper/short • green - stand-by • red - alarm • orange - double zone with one zone in alarm status and the other in stand-by status Clocking-on the **Real-time** button makes a connection with the zone which feeds back information regarding the thresholds. The **OK** button saves the changes which will be written during the write phase.		Not available

Table 6-3: Zone parameters

Multi-pulse time	This parameter applies only when the “Alarm pulse num.” parameter is more than 1. This is the window during which a number of alarm pulses must be detected (each lasting as long as the programmed “Al.pulse Duration”). The number of alarm pulses must equal or exceed the value programmed for “Alarm pulses”, before the system generates an alarm. This time window can be expressed in seconds or minutes.	**Zones, selected zone, Device parameters “generic”**	Zones, generic zone
Alarm pulses	This is the number of pulses (each as long as the programmed “Alarm pulse Duration”) necessary to generate a zone alarm event. If this value is more than 1, you must also program the “Multi-pulse time” parameter.		
Alarm pulse Duration	This is the length of time (after detection of alarm conditions) the zone allows before generating an alarm. Expressed in multiples of 15 milliseconds or minutes.		
Roller blind time	This parameter applies only when the value of the “Roller blind pulses” (see below) is more than 1. This is the time window during which the system must detect a number of pulses equal to the value set for “Rollerblind pulses” before generating a zone alarm. This time window can be expressed in seconds or minutes.	**Zones, selected zone, Device parameters “roller blind”**	Zones, "roller blind zone"
Roller blind pulses	This is the number of pulses necessary to generate a zone-alarm event. If this value is more than 1, you must also program the “Roller blind time” parameter.		
Shock time	This parameter applies only when the “Shock pulses” (see below) value is more than 1. This is the time window during which the system must detect a number of pulses equal to the value set for “Shock pulses” before generating a zone alarm. This time window can be expressed in seconds or minutes.	**Zones, selected zone, Device parameters “shock”**	Zones, "shock zone"
Shock pulses	This is the number of pulses necessary to generate a zone-alarm event. If this value is more than 1, you must also program the “Shock time” parameter. If this value is 0, the alarm will be generated exclusively in accordance with the “Shock sensitivity” parameter.		
Shock sensitivity	This is an empirical parameter which regulates the sensitivity of the sensor. Increasing this value decreases detection sensitivity.		
Partitions	These are the partitions the zone belongs to. A zone configured as “Automation” cannot be assigned to any partition.	**Zones, selected zone**	Zones, "zone"
Events button	At the bottom of the section are the buttons that directly access the programming section of the events associated with the selected zone.		Events

ZONE TYPE

For Arming”, “Disarming”. “Switching”, “Following” and “Patrol” type zones, refer to the glossary in the installation and programming support manual.

“Delayed” and “Delayed unhidden” zones are delayed both during entry and exit phases, in accordance with the output “Entry Time” and “Exit Time” settings (refer to *Table 5-1: Parameters for single partitions*). In particular, “Delayed unhidden” zones behave as follows:

- if violated when the system is disarmed, it will switch Off the blue LED on the keypad
- if the “View open zones” option is enabled, it will be shown on the keypad (refer to *Table 3-1: Parameters common to all keypads*)
- it will not generate “Partition not ready” events
- On arming from a keypad, the zone will appear as a violated zone but, when the arming operation is confirmed, will behave as a delayed zone and will not generate an alarm.
- if the “OpenZonesArmLock” option is enabled and the zone is violated, it will appear as a violated zone but, when the arming operation is confirmed, will behave as a delayed zone and will not generate an alarm (refer to *Table 4-3: Control panel options*).
- if the “OpenZonesArmLock” option is enabled, the zone is violated and instant arming is required, the zone will appear as a violated zone and when the partition arming operation is confirmed, the partitions the zone belongs to will not be armed.

DETECTOR TYPE

In the case where the zone is associated with a detector, it is possible to set the type of detector (generic, roller blind, shock) depending on the terminal in use:

Table 6-4: Zones - detector type

Zone	Generic	Roller blind	Shock
Control panel terminals	any	any	any
Expansion terminals	any	T1, T2, T3, T4	T1, T2, T3, T4
Keypad terminals	any	any none for Alien/G	any none for Alien/G
icon on software			

Table 6-5: Zone options

Parameter		Software section	Installer menu section
Interior	A zone that monitors the inside of the protected building. If a partition that a zone belongs to is armed in Stay mode, it will be unable to generate alarms.	 **Zones, selected zone, options**	Zones, "zone", Options
Autobypassable	A zone with this attribute will be bypassed automatically by the control panel if, at the moment of arming the partitions the zone belongs to, it is not in stand-by status. The zone will be unbypassed automatically when it restores to standby or when the partition it belongs to is disarms.		
Unbypassable	A zone with this attribute cannot be bypassed, manually (by the user) or automatically (by the control panel).		
Chime	A zone with this attribute will generate “Chime on partition” events, if violated when the partitions it belongs to are disarmed. Keypads which have partitions in common with the chime zone will emit an audible signal when the “Chime on partition” event occurs. If all the partitions the zone belongs to are armed, the zone will operate as programmed.		
Test	A zone with this attribute cannot generate alarms (activate audible and visual signalling devices). However, any alarm events that occur will be saved to the events memory.		
No- Unbypass-able	If this option is enabled, the zone will operate as an “Autobypassable” zone, with the difference that it will be automatically unbypassed when the partition next disarms.		
No arm if not ready	If this option is enabled, the zone, even if it is a 24H, automation or delayed zone, will not arm when it is not in stand-by status. If this option is selected for a 24H or technological zone, it can be used together with the control panel option: “Does not arm if any of the zones are not ready”, for the management of the “anti-masking” function on duly capable detectors.		
Activate Entry Time 2	If this option is enabled, delayed zone will activate the second partition entry time. If this option is not enabled, delayed zones will activate the first partition entry time.		Delay time 2
Last exit zone	If this option is enabled and the zone passes from stand-by status to alarm status while the partition exit time is running, the exit time will be forced to 15 seconds. If the zone passes from alarm status to standby status, the exit time will be forced to 5 seconds.		
Unbyp. on dis-arm	If this option is enabled, a zone which has been bypassed by a user, will be automatically unbypassed when the partition next disarms.		
Hold-up	Activation of a zone with this configuration generates an instant alarm even when the partition it belongs to is disarmed. However, audible and/or visual signalling devices will not be activated (silent alarm). Therefore, calls generated by the alarm will not be revealed audibly or visually on the keypad display and LEDs.		
Fault zone	If this option is enabled, violation of the zone will generate a zone alarm event and contribute to fault signalling (yellow LED on the keypad).		

Outputs 6-2

Prime control panels always have 5 outputs available which are constituted by:

- relay output (terminals 1-2-3)
- open-collector output OC1 (terminal 5)
- open-collector output OC2 (terminal 6)
- supervised output AUX1 (terminal 11)
- supervised output AUX2 (terminal 23)

Furthermore, all terminals from T1 to T10 can be used as OC collectors.

The outputs configured on Flex5/P and Flex5/U expansion boards are open-collectors (OC).

The output on terminal T5 can be configured as a dimmer type output, to be used as an analog output (industrial standard 0-10V).

The 5 outputs on the Flex5/DAC expansion board can be configured as:

- Relay output
- Triac ON/OFF output (default setting)
- Triac dimmer output

The terminal pairs of the Flex5/DAC OUT1-OUT2 and OUT3-OUT4 are provided with the interlock function which is required in applications with, for example, roller blind motors. Activated by the respective option, which must be activated for both terminals in the pair. This function has the purpose of inhibiting the simultaneous active status of the associated terminals.

The outputs configured on the keypads are all open-collector type outputs.

Table 6-6: Outputs - terminal type

Outputs	Generic (OC)	Relay	Dimmer
Control panel terminals	any	NO NC COM	None
Expansion terminals	any	None	T5
Flex5/DAC terminals	any	any	any
Keypad terminals	any	None	None
icon on software			

Via keypad

Type in Code (Installer), PROGRAMMING Terminals, select the terminal concerned configured as controlled output ("**H**")

or

Type in Code (Installer) , PROGRAMMING Outputs , select the output concerned

Via software

To program the output, select the **Terminals** button. The "Programming" section on the right will show the graphic representation (map) of the terminals of the entire system.

Here, by double clicking on the terminal configured as "output", you enter the programming mode.

or

Click-on the **Outputs** button on the menu on the left, the "Programming" section will show a list of all the available outputs and their parameters. By selecting one of these items it is possible to set the parameters of the single output by clicking on the button.

Note

If the stand-by status of the output is determined by the occurrence of an event, the output will still not return to stand-by status during programming mode.

Table 6-7: Output parameters

Parameter		Software section	Installer menu section
Description	This is the editable output label (device description). At default all the outputs, except for the 3 outputs on the control panel motherboard, assume the description of the peripheral they refer to followed by the respective terminal.	 **Outputs, selected outputs**	Outputs, "output"
Monostable time	Check box where you can indicate the monostable time in the case in which the"Monostable" option is activated.		
Icon	Check box for the selection of one of the 80 icons available (refer to *Appendix C, Available Icons*) that can be associated with the "Output activation" shortcut associated to the selected output.		Not available

Table 6-7: Output parameters

Events	Clicking-on the **Events** option in the table opens a window containing a list of events which, when they occur, activate the output. You can delete each individual event by clicking on **Delete**.	**Outputs**	Not available
Codes	licking-on the Codes option in the table opens a window containing a list of user codes which can activate the output.		Not available
Normally closed	This is the condition of the output during stand-by status.	**Outputs, selected outputs, Options**	Outputs, "output", Options,
Monostable	This option makes the output a “monostable” output.		
Buzzer - beep 1KHz	When the output is activated, it will generate a 1Khz signal. This can be used to drive a buzzer.		Buzzer (beeper)
Flasher - 0.5s ON and 0.5s OFF	When the output is activated, it will generate an intermittent signal (0.5 sec ON and 0.5 sec OFF). This can be used to drive a visual signalling device.		Flashing
Do not deactivate on reset	The output will not restore when the activating event ends.		ON afterRestoral
Switch	Each time an output activation command is executed, it is switched.		
Dimmer	The dimmer output and the power supply from the terminals can be adjusted by the user.		
Relay use	The output will operate as a relay output.		Use relay
Home Automation	If the output is activated when the control panel enters the programming phase, it will not reset to stand-by.		
Interlocked	If enabled, this option inhibits the contemporary activation of the associated terminals. It can be enabled only for terminal T01, which will automatically activate the option for the associated T02, and terminal T03, which will automatically activate the option for the associated T04.		

The options listed above allow you to indicate the output-function type.

Note

A declaration as to the type of output which is incoherent with the output itself may cause malfunction.

MONOSTABLE

When a “Monostable” output receives an activation signal, it will remain active (On) for the programmed time, regardless of the status of the event which caused its activation.

For some events there are conditions that can force the early deactivation of the activated monostable outputs.

DO NOT DEACTIVATE ON RESET

If the option is activated, the output will not reset when the event that refers to it ends. It is useful to activate the output with one event and deactivate it with another.

This option applies to “Bistable” outputs only. If it is enabled for a bistable output with reset-event configuration, it will deactivate the output instead of activating it (refer to *Chapter 12 Programming events*).

This option is useful in situations that require the output to create “memory” of events, the occurrence of which continues to be signalled by the referenced output. In this case, the output is deactivated by a different event which restores it directly to standby (resets the output).

For example:

- activate this option for the OC1 output
- associate the OC1 output to the occurrence (activation) of the “AC Mains failure” event
- associate the OC1 output to the restoral of the “Valid code” event for “CODE 1”

In the event of Mains failure the output will activate but will not deactivate when the Mains failure condition clears. The output will be deactivated only when recognition of the “CODE 1” event occurs

SWITCH

If this option is enabled, each time an output activation command is carried out the output will switch status. Therefore, if it is deactivated it will activate and vice versa.

However, each time you execute a “deactivate output” command, the output will always deactivate.

in order to use this feature with the shortcuts, it is therefore necessary to use the “Activate output” shortcut.

Outputs activatable without authentication 6-2-1

It is possible to program the outputs which can be viewed and activated from a keypad without authentication (i.e. without entering a user code).

The procedure for access to these outputs depends on the type of keypad in use:

- for keypads with keys, activate the shortcut associated with the “Output control” (shortcut n. 21:) associated with one of the F1 Fn, ..., F4
- from an Alien keypad, access the “Commands” section, then the “Domotics” section.

Via software

Click on the **Keypads** button on the menu on the left, the “Programming” section on the right will show the list of configured keypads.

Selecting one of the keypads the relative “Advanced - Domotic Outputs Enabling” shows a list of the available outputs. Here you can select the outputs for home automation.

The outputs selected in this way can be activated by anyone with access to the keypad without authentication (user code entry not required).

Double zone 6-3

The Prime system allows you to connect two different zones to a single terminal. This terminal must be configured as “Double zone input”.

Via keypad

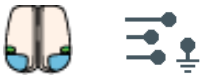
Type-in Code (Installer), PROGRAMMING Terminals, select the terminal in question configured as input (“**D**”) and then select one of the two zones.

or

Type-in Code (Installer), PROGRAMMING Zones, select the zone concerned and then select one of the two zones

Via software

To program the zone, select the **Terminals** button. The “Programming” section on the right will show the graphic representation (map) of the terminals of the entire system.



Here, by double clicking on the terminal configured as “double zone”, you enter the programming phase where the “Zone 1” and “Zone 2” sections are available.

or

Click-on the **Zones** button on the menu on the left, the "Programming" section will show a list of all the available zones including the double zones, configured by assigning the “double zone” attribute to the terminal. By selecting one of these items it is possible to set the parameters of the single zone by clicking on the button.

Controlled output / Terminal I / O 6-4

The Prime control panel is capable of reading the status of the terminals used as “output”. This terminal must be configured as a “controlled output”.

On entering programming phase of this terminal, the Prime system provides two sections, one to program it as an “output”, the other as an “input”, to set the reading parameters of the terminal.

Via keypad

Type-in Code (Installer), PROGRAMMING Terminals, select the terminal in question configured as output (“**H**”), Input/output, select the section to be programmed between “Input” and “Output”.

or

Type-in Code (Installer), PROGRAMMING Zones, select the I/O terminal in question in order to program its parameters as an input

Type-in Code (Installer), PROGRAMMING Outputs, select the I/O terminal in question in order to program on its parameters as an output

Via software

To program the output, select the **Terminals** button. The “Programming” section on the right will show the graphic representation (map) of the terminals of the entire system.

Here, by double clicking on the terminal configured as “controlled zone”, you enter the programming phase where the “Input” and “Output” boards are available.

or

Click-on the **Zones** or **Output** button on the menu on the left, the "Programming” section will show a list of all the available zones and outputs, including those terminals configured with

the “controlled output” attribute. By selecting one of these items it is possible to set the parameters of the single zone by clicking on the button.

6-5 Wireless terminals

The parameters necessary for enrolling and programming wireless terminals will be displayed only when the terminal has been previously defined as “Wireless”.

These parameters vary depending on the type of wireless device to be configured.

6-5-1 Enrolling devices

1. Go to the expansion board field and then to the terminal concerned.
2. Configure the terminal as “Wireless”:

Via keypad

Type in Code (Installer), PROGRAMMING Terminals, select the terminal concerned

Press the number button 6 mno; the word “Wireless” will appear on the last line of the display (pressing the button again will disable the wireless attribute on the terminal).

Via software

Right-click and select “Wireless” (the PCB image will change to colour only after a successful enrollment procedure of the relative devices).

Note

If a terminal on the expansion board is configured as “wireless”, all the remaining terminals must be configured as “wireless” terminals.

3. Enrolling the terminal:

Via keypad

Type in Code (Installer), PROGRAMMING Terminals, select the terminal concerned, Wireless, Enroll device

Enroll the terminal by selecting the type.

Via software

Double-clicking on the configured terminal will open a window where you can program the zone. The lower part of the window shows the “Wireless section”, right-click and select the “Wireless” option. Select the type of device, in the “Type” field, then start the guided enrolling process by clicking-on the “Enroll” button.

Table 6-8: Wireless terminal types

Air2 device		Single / Double	Via software		Via keypad
IR100		Single	**Infrared**		Infrared detectors
MC300	Reed contact	Single	**Magnetic contact**		Magnetic Contact
	Terminal “T1”	Single	**Terminal 1 Magnetic contact**		Terminal T1 MC
	Terminal “T2”	Single	**Terminal 2 Magnetic contact**		Terminal T2 MC
FD100		Single	**Smoke detector**		Smoke detector
XIR200W		Single	**Passive infrared detector**		Single T detector
OTT100W		Single	**Outdoor terminal**		OutdoorDetector
ODI100W		Single	**Outdoor terminal**		OutdoorDetector
UT100		Single	**Outdoor terminal**		OutdoorDetector

Table 6-8: Wireless terminal types

MC200		Double	**MC200 magnetic contact**		Cont.Magn.MC200
DT200T	Curtain detector	Double	**Curtain detector**		Curtain detector
	Detector direction	Double	**Directional detector**		Curtain direction
XDT200W		Double	**Dual technology detector**		Dual T detector

4. For Air2 devices press the **ENROLL** button.
5. If the device to be enrolled is an output connected to a terminal of any device with an Air2-MC300 output terminal, you must enable the “Broadcast RF” zone option (refer to *Table 6-9: Wireless parameters*).
   Once done, you must step back to the configuration of the terminal and configure it as an “OUTPUT”.

Note

The “Broadcast RF” option must be enabled for each terminal of the Air2-MC300 device concerned.

6. Enroll all remote controls in the same way as you would enroll keys, and select as the reader the one with the same address as the expansion.
7. Set the parameters of the zones, outputs and keypads.

Programming wireless terminals 6-5-2

Table 6-9: Wireless parameters

Parameter		Software section	Installer menu section
Enroll	This section allows you to enroll a wireless detector which has not yet been enrolled on the terminal concerned.	**Selected terminal, Wireless**	Terminals, "terminal", Wireless Enroll device
Type	Type of device to be enrolled (*Table 6-8: Wireless terminal types*).		
Remove	Section to delete from the terminal in question.a previously enrolled wireless detector.		Delete device
Sensitivity	The “Wireless” section contains the parameters for adjustment of the detector sensitivity of the previously enrolled devices and their functions. These parameters vary depending on the type of wireless terminal to be configured (refer to *Table 6-8: Wireless terminal types* and *Table 6-10: Wireless detector sensitivity*).		Terminal type
Tamper on unused reed relays	Detects tamper on the Air2-MC300 magnetic-contact when both reeds are in stand-by status.	**Selected terminal, Wireless, Options**	Terminals, "terminal", Options, TampReed/FollPir
Disable detector when partition is disarmed	In order to increase battery life, the PIR detector will deactivate when the partitions it belongs to are disarmed and will only activate when the partitions it belongs to arm. Deactivated detectors do not generate alarms. When the partitions arm, there may be a delay of up to 3 minutes before the detector receives the activation command.		
Use detector LED	The red LED on the device provides visual signalling of alarm or tamper conditions on the device itself. This option will be enabled on all the terminals of the Air2 device.		Use sensor LED
Broadcast RF	This option assures the activation/deactivation of the output within 2 seconds of the control panel command. Valid only for terminals T1 and T2 of Air2-MC300 configured as outputs.		Broadcast RF
Bypass tamper	If this option is disabled, open/dislodgement tamper on Air2 devices will not generate the respective events.		DisableTamperWLS WLS

Table 6-10: Wireless detector sensitivity

Parameter	Terminal type	Via software	via keypad
Detector sensibility: • PIR: from 1 (least sensitive) to 4 (most sensitive) • Air2-FD100:1=0,08 dB/m; 2=0,10 dB/m; 3=0,12 dB/m; 4=0,15 dB/m (default)	**Infrared** **Smoke detector**	**Sensitivity**	Sensitivity
PIR detector sensitivity Varies from 1 (least sensitive) to 10 (most sensitive). The default setting is 6.	**Passive infrared detector** **Outdoor terminal** **Dual technology detector** **Curtain detector**	**Sensitivity**	Sensitivity
Microwave detector sensitivity. Varies from 1 (least sensitive) to 10 (most sensitive). The default setting is 6.	**Dual technology detector** **Curtain detector**	**Microwave sensitivity**	MicrowaveSensit.
Tamper sensor sensitivity. Varies from 1 (least sensitive) to 10 (most sensitive). The default setting is 3.	**Dual technology detector** **Curtain detector** **Outdoor terminal**	**Tamper sensitivity**	Shock Sensit.
Anti-mask detector sensitivity Varies from 1 (least sensitive) to 10 (most sensitive). The default setting is 3.	**Dual technology detector** **Curtain detector**	**Anti-mask sensitivity**	Shock Sensit.
Selection of the magnetic reed contact: • Magnet long side - for detection on the long side of the magnetic contact. • Magnet short side - for detection using the short side of the magnetic contact. • Both magnets - for detection using both sides of the magnetic contact.	**Magnetic contact**	**Reed relay type**	MagnetLongSide MagnetShortSide BothMagnets
Shock detector sensitivity Varies from 1 (least sensitive) to 10 (most sensitive). The default setting is 1.	**MC200 magnetic contact**	**Shock sensitivity**	Shock Sensit.
Maximum angle within which the movement is not signalled, from 1 (minimum tilt) to 10 (about 90 ° from the resting position); 1 is the default preset value.	**MC200 magnetic contact**	**Tilt**	Tilt
This parameter allows you to set the delay before signalling of tilting occurs (seconds or milliseconds)	**MC200 magnetic contact**	**Tilt delay**	Tilt duration
Check box to disable the corresponding detector	**Passive infrared detector** **Outdoor terminal** **Dual technology detector** **Curtain detector** **MC200 magnetic contact**	**Disabled**	Not available

Table 6-11: Real-time for wireless zones

<table>
<tr><th colspan="3">Parameter</th><th>Software section</th></tr>
<tr><td rowspan="5">Real-time</td><td colspan="2">Clicking on the Real-time button displays the current values of the following features of the wireless device:</td><td rowspan="5">Selected terminal
 
 
  </td></tr>
<tr><td>Reading level</td><td>The value read by each detector of the device is displayed on a bar which indicates the alarm threshold by means of a colour change from green to red.</td></tr>
<tr><td>Battery charge level</td><td>Percentage of the device battery charge.</td></tr>
<tr><td>Signal reception</td><td>This is a series of notches that represent the signal reception strength on the device as received by the Air2-BS200 transceiver.</td></tr>
<tr><td>RF analysis</td><td>This button opens a window which allows you to monitor the signal variations transmitted by the device and any detected background noise.</td></tr>
</table>

Programming arming scenarios

Chapter 7

The programming of the arming scenarios (configurations of the arming mode of the Prime system partitions) can be carried out either via software or from a keypad.

Via software

Click-on the **Arming scenarios** button on the menu on the left, the "Programming" section will show a list of all the available scenarios and their parameters. Selecting one of these items allows you to set the parameters of the single scenario by clicking on the button.

Via keypad

`Type-in Code (Installer), PROGRAMMING Arming Scenarios`

This section allows you to program the various options of the selected scenario.

Scenario parameters 7-1

Table 7-1: Parameters of single scenario

Parameter		Software section	Installer menu section
Description	Editable field for the description of the scenario.	**Arming scenario, selected scenario**	`ArmingScenario, "scenario"`
Icon	This section allows you to select the icon you wish to assign to the scenario, by indicating the icon number (refer to *Chapter 15 Keypad shortcut and icon*):		
Output	The selected output will be activated when the scenario is applied (via keypad, reader, phone, etc.). It is possible to use a scenario solely to activate an output (leaving all actions on the areas null) thus having the possibility to display different icons on the keypads to activate different outputs, inheriting the desired icon from the scenarios.		
Partitions	This section allows you to configure the arm/disarm scenarios of all the partitions managed by the control panel. • "-" the current operating mode of the partition will not be changed. • Away - the partition will arm in Away mode (interior and perimeter). • Stay - the partition will arm in Stay mode (perimeter only). • Instant - the partition will arm in Instant mode (perimeter only with zero delay). • Disarm - the partition will disarm.		
Activate scenario	At the bottom of the section is a key that directly accesses the programming section of the event that applies the selected scenario.		`Events, ScenarioON`

Chapter 8 Programming timers

Each timer can be programmed to manage:

- the assigned partitions of the codes and keypads that have access to the programming process of the timers via the user menu
- two scheduled activation times (“ON”) for each day of the week.
- two scheduled deactivation times (“OFF”) for each day of the week.
- Up to 15 exceptions

A timer can be associated with:

- a **Partition** - if a timer is associated with a partition on which automatic-arming operations are enabled (refer to *paragraph 5-5 Activations* in the *User's Manual)*, the partition will arm when the timer activates and disarm when the timer deactivates.
- a **Code** - if the timer is enabled, the entered code will be authorized to operate only during the period the timer is activated.
- a**Key** - if the timer is enabled, the key will be authorized to operate only during the period the timer is activated.

Note

The timers must be enabled/disabled by the user *(refer to paragraph 5-5 Activations* in the *User's manual*). On exiting the programming session all the timers will be automatically re-enabled, therefore, if the user previously disabled any of the timers, then these must be re-enabled.

Via software

Click-on the **Outputs** button on the menu on the left, the “Programming” section will show a list of all the available timers and their parameters. Selecting one of these items allows you to set the parameters of the single timer by clicking on the button.

The software program allows you to set up 15 setting exceptions for each timer. Each exception allows you to define an interval period (of even one day) within which you can set an activation time and a deactivation time valid for all the days of the interval. The system does not accept intervals which go over the end of the year. Therefore, it is impossible to program an interval such as 12th December to 5th January. In such situations, you must program 2 “timer exceptions”, one from 12th to 31st December and the other from the 1st to 5th January, both with the same On and Off settings.

The exceptions have priority over the days of the week. For example, If a “timer exception”, let's say 1st May, falls on a Tuesday the settings programmed for 1st May will be applied.

Via keypad

`Type-in Code (Installer PIN) , PROGRAMMING Timers`

This section allows you to program the various options of the selected timer.

Note

The exceptions cannot be programmed via keypad.

Timer parameters 8-1

Table 8-1: Single timer parameters

Parameter		Software section	Installer menu section
Description	This is an editable field for the description of the timer.	 **Timer, selected timer**	Not available
Monday / ... / Sunday	You can set two “ON” and “OFF” time frames for each day of the week. During the week, the timer will activate in accordance with each “ON” indication and deactivate in accordance with each “OFF” indication, regardless of the number of times “ON” and “OFF” indications occur and also regardless of whether the indications belong to the same day of the week.		Timers, "timer"
Partition filter for user-codes	This section indicates the partitions associated with the codes and keypads which have access to timer programming through the user menu.		
Exceptions	Each exception allows you to define a time frame, expressed in days, within which you can set an “ON” time and an “OFF” (deactivation) time valid for all the days included in the time frame. Exceptions always have priority over the days of the week.		Not available
Timer event	A key is provided that directly accesses the programming section of the activation event of the selected timer.		Events, Activated timer

Note

It is also possible to program only timer activation or only restoral.
If you do not wish to program the timer activation or restoral setting, enter “--:--” in the field you do not wish to program.

Chapter 9 Programming user codes

Programming of the user codes involves both the authorizations of the user the code is associated with, and the code itself with its parameters (hierarchical level, PIN, etc.).

Via software

Via keypad

Click-on the **Codes** button on the menu on the left, the “Programming” section will show a list of all the available user codes and their parameters. Selecting one of these items allows you to set the parameters of the single code by clicking on the button.

`Type-in Code (Installer) , PROGRAMMING Codes`

This section allows you to program the various options of the selected user code.

9-1 Change user PIN

The user code PINs must be numeric and comprise 4 to 6 digits.

In order to be EN50131 compliant, all PINs must have 6 figures.

The PIN of user code n. 1 is “0001” at default. The PINs of the successive user codes are “0002”, “0003”, etc. up to “0050” for the Prime060S and Prime060L control panel models and “0100” for Prime120L and Prime240L.

Via software

Click-on the **Codes** button on the menu on the left, the “Programming” section will show the “Change User PIN” subsection where you can change the PIN of the selected code.

The new Code PIN must created in the “New PIN” programming field in two different ways:

- **Old PIN** - this method allows you to substitute the old code PIN (to be entered in the upper edit field) with a new PIN (to be entered in the lower edit field).
- **Master or Manager User PIN** - this method, using a Master or Manager user PIN (to be entered in the upper edit field) allows you to substitute the old code PIN with a new one (to be entered in the lower edit field on the right).

Changes will be valid only after the **Change PIN** button has been pressed.

Via keypad

`Type-in Code (User), Change PIN`

This section allows you to change the User Code PIN used for access and also the PINs of all other users with a lower rank in the system hierarchy.

1. Using keys and select the user code you want to change.
2. Type-in the new PIN (4, 5 or 6 digits) using keys 0 ␣, ..., 9 wxyz then press **OK**.
3. Type-in the new PIN again using keys 0 ␣, ..., 9 wxyz then press **OK** to save.

`Type in Code (Installer), PROGRAMMING Factory settings , Only PIN default`

This section will allow you to reset all PINs of the user codes to default.

Via Alien

Access the “Settings” section, enter a valid user code, go to the“Date/Time - Change PIN - Change tel. num.” section, then select “Change PIN”.

Select the code you desire from those available on the list. The next step is to change the code using the buttons on the touch screen then tap **OK** to confirm.

Access to user menu 9-2

Via software

By clicking-on the **Codes** button in the menu on the left and selecting one of the items, it will be possible to view the “User menu access” subsection in the “Programming” section.

The selection field will be displayed on the system keypads immediately after user code validation:

- **Icons, function key shortcuts** - displays the icons of the codes corresponding to the function keys. At this point, the user can press the function keys and activate the respective shortcut.
- **Shortcut text** - displays the descriptions of the user shortcuts associated with the function keys. The descriptions of the shortcuts will be shown in the place of the respective shortcuts icons.
- **Standard user menu** - accesses the user-menu scroll list containing all the operations the user is enabled to perform. At this point, the user can scroll the list and select the required operation.

Via keypad

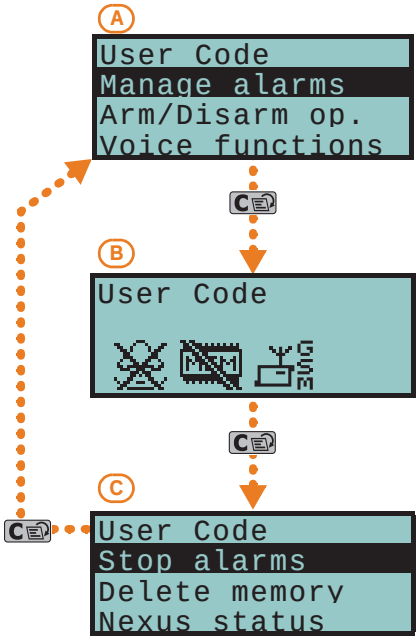
Type-in Code (Installer) , PROGRAMMING Codes, "code", Options

This section provides the “Text Menu” and “User Menu” options.

The combination of these two options allows immediate display on the keypad screens immediately after user code validation. Refer to the following table.

Table 9-1: Combinations “text menu” and “user menu”

Case	Text menu	User menu	Description
A	Disabled	Enabled	Accesses the standard user-menu (shown as a list of operations the user is enabled to perform); at this point the user can scroll the list using keys and and select the required operation.
B	Disabled	Disabled	Display of the user-icons associated with function keys F1 Fn, ..., F4; at this point the user can press the required function key and activate the associated shortcut.
C	Enabled	Disabled	Shows the descriptions of the personalized user-icons associated with function keys. The shortcut descriptions will be shown instead of the shortcut icons, at this point the user can use and to scroll the list of shortcut descriptions and select the shortcut, which can be activated by means of the key.
D	Enabled	Enabled	The same as “**C**”



In all methods of access (A, B and C), the key allows you to access/view the other successive cases, see the figure opposite.

User code parameters 9-3

Table 9-2: Single code parameters

Parameter		Software section	Installer menu section
Description	This is an editable programming field for the code user's name.	**Codes, selected code**	Codes, "code"
Partitions	Section for the selection of the partitions the code is assigned to.		
Type	Programming field for the assignment of the level in the code hierarchy of the selected user. The default level of code number 1 is “Master”; the default level of all the other codes is “User”.	**Codes, selected code, Options**	

Table 9-2: Single code parameters

Partition filter	If this option is enabled, the code concerned can change the parameters only of codes of a lower level in the code hierarchy whose partitions are a subset of its own partitions. For example, if a code is configured as “Master” with “Partition filter” and is assigned to partitions 1, 3, 5 and 7, it will be able to enable/disable or change the PIN of a “User” code assigned to partitions 1 and 5 but not the PIN of a “User” code assigned to partitions 1, 2, and 3.		Codes, "code", Options,
Fixed length	If this option is enabled, after entering a valid PIN and without pressing **OK**, the user of the code concerned can activate the shortcut associated with the**F12** key, programmed through the “Shortcuts activated by function keys” (refer to *paragraph 9-3 User code parameters*). If this shortcut is number 1 (“Arm/disarm”) and all the partitions assigned to the user code in question are disarmed, the command will arm them, otherwise it will disarm them. If this option is enabled, the user of the code concerned can access their menu only after pressing **OK** and typing-in their PIN.		
Voice guide	If enabled on a keypad with a speaker, the voice guide (after PIN entry followed by **OK**) will announce the shortcut descriptions relating to the entered user-code and the respective number keys on the keypad.	✳✳ _ **Codes, selected code, Option details**	AnnounceShortcut
Patrol	If enabled, the code will be able to disable the system for the pre-set “Patrol time”.		
Remote access	If enabled, the code PIN can be used to operate the system from any remote telephone. If the code PIN is entered on a remote telephone keypad, only the shortcuts associated with keys 0 to 9 can be used to: • Arm/Disarm • Stop alarms • Clear call queue • Delete memory • Activate output • Deactivate output • Listen-in • Partition status		
Recognized valid user code	A key is available that directly accesses the programming section of the system arming event of the selected code.	✳✳ _ **Codes, selected code**	Events, Valid Code

Table 9-3: Code enablements

Parameter		Software section	Installer menu section
Enablements	This section allows you to enable/disable access to the various sections of the User Menu. For details regarding the sections of the user menu, refer to the*User Manual*.	✳✳ _ **Codes, selected code, Enablement details**	Codes, "code", Enablements
Enablement of outputs	This section allows you to enable/disable each output the code is authorized to control manually via the user menu.		Assigned outputs
Shortcuts activated via function keys	This section allows you to assign a shortcut to each of the function keys **F1**, ... , **F12**), with the eventual respective parameter, which will activate when the key is pressed.	✳✳ _ **Codes, selected code, Shortcut details**	ShortcutFunc.Key
Shortcuts activated by internal keys	This section allows you to assign a shortcut to each of the number keys (**0**, ... , **9**) on the control-panel keypad (with the eventual respective parameter) which will activate when the key is pressed.		0/9 Key shortcuts
Timers	This section allows you to assign a timer to the code. The code will be operative only at the pre-set times.	✳✳ _ **Codes, selected code, Option details**	Timers

Programming keys

Chapter 10

Key programming consists of setting the parameters of the keys and wireless keyfobs for user access to the partitions protected by the Prime system.

Each key or wireless keyfob must be enrolled in order to allow it to operate on the system.

Enrolling keys 10-1

The enrolling procedure is carried out in this section, as follows:

Type-in Code (Installer) , PROGRAMMING Keys, Enroll

Via keypad

1. The readers present in the control panel configuration will be shown. Select the reader you want to use for enrolling the keys, then press **OK**. If you select a reader simulated by the Air2-BS200, a “W” will be shown at the end of the description.
2. Select the digital key you want to enroll and press **OK**. If you are using an nBy/S or nBy/X reader all the LEDs will start to blink to indicate that it is ready to enroll the key.
3. The keypad will indicate the current description of the key concerned.
4. Hold the key in the vicinity of the reader and then move it away. In the case of a wireless keyfob, press simultaneously keys **3** and **4**.
5. The keypad will emit a beep to confirm that the key has been successfully enrolled. If you are using an nBy/S or nBy/X reader, the red LED will go On.
6. The key description will go directly to the next key automatically. This method (from step 4.) allows you to enroll as many digital keys as the system requires.
7. Once you have completed the enrolling process, press Esc or C.

Note

All the enrolled keys will immediately be enabled to operate the system.

DELETE KEYS

Type-in Code (Installer), PROGRAMMING Keys, Delete key

This section allows you to delete enrolled digital keys from the system configuration. The enrolled digital keys can be found in the list with the ▣ symbol.

1. Use keys and to select the enrolled digital keys you want to delete.
2. Press □ # to delete the selected key.
3. Press **OK** to confirm the operation and exit.

Through an appropriate section of the installer menu it is also possible to delete all the enrolled keys at once. This section can be reached as follows:

Type in Code (Installer), PROGRAMMING Factory par., Only keysDefault

KEY AUTHORIZATIONS

Type-in Code (Installer) , PROGRAMMING Keys, Enable/disable

This section allows you to enable/disable the digital keys. These operations are not irreversible:

1. Use keys and to select the key in question.
2. Use keys ▣ * and □ # to enable/disable the key.
3. Press **OK** to confirm the operation and exit.

10-2 Key parameters

Via software

Click-on the **Keys** button on the menu on the left, the "Programming" section will show a list of all the available keys and their parameters. By selecting one of these items it is possible to set the parameters of the single key by clicking on the button.

Via keypad

`Type-in Code (Installer) , PROGRAMMING Keys, "key", Key parameters`

This section allows you to program the various options of the selected key.

Table 10-1: Parameters for single key

Parameter		Software section	Installer menu section
Description	This is an editable field for the key name/description.	 **Keys, selected key**	`Keys, "key", Key parameters`
Partitions	This section allows you to establish which partitions the key can control.		
Timers	This section allows you to associate a timer with the key in order to filter the operability of the key on a time basis.		
Shortcuts	In this section it is possible to set the four shortcuts (with any related parameter) that the key can activate at a reader. Each shortcut is associated with the lighting-up of a specific reader LED: • F1 - red LED • F2 - blue LED • F3 - green LED • F4 - yellow LED		
Patrol	The key will be a “Patrol” key.	 **Keys, selected key, Options**	`Keys, "key", Change key, Options,`
Maintenance	The key will be able to block outputs associated with alarm/tamper events for the time that it is held in the vicinity of a reader.		
Wireless	This option indicates whether the previously enrolled key is a wireless key or not.		
Use key shortcuts only	If a key is held in the vicinity of a reader, only the key shortcuts will be indicated and not the reader shortcuts.		`Use keyShortcuts`
Total disarming disabled	If a key is held in the vicinity of a reader when some partitions are armed, the Disarm option will be inhibited (all LEDs Off).		`DisarmNotAllowed`
Valid key	A key is available that allows direct access to the programming section of the access to the system event via a valid key.	 **Keys, selected key**	`Events, Valid key`

The shortcut associated with the key can be one of the following types:

- None
- Arm/Disarm
- Stop alarms
- Clear call queue
- Delete memory
- Activate output
- Deactivate output
- Overtime
- Teleservice request
- Voice guide
- Panic

If a digital key is held in the vicinity of a reader, the LEDs will run through a series of visual signals with the following meanings:

Table 10-2: Readers - LED visualization

LED On sequence		Option: Use key shortcut only	
		enabled	**disabled**
1	Red LED On	Key shortcut F1	shortcut associated with the red LED on the reader
2	Blue LED On	Key shortcut F2	shortcut associated with the blue LED on the reader
3	Green LED On	Key shortcut F3	shortcut associated with the green LED on the reader
4	Yellow LED On	Key shortcut F4	shortcut associated with the yellow LED on the reader
5	All LEDs On	This sequence does not occur	Key shortcut F1
6	All LEDs Off	**Option: Total disarming disabled**	
		enabled	**disabled**
		No request to arm all the partitions common to both the key and reader.	Request to disarm all the partitions common to both the key and reader.

Note

The "Use only key shortcut" and “Total disarm disabled” options have no effect for wireless keyfobs.

Chapter 11 Programming the telephone

The Prime system provides for the programming of all the telephone parameters, both for the telephone numbers to be called when events occur, and for the telephone line parameters.

ATS DEVICE

The built-in ATS device (alarm transmitting system) provides the following features (in compliance with EN50131 relating to the notification of information).

- Type B notification apparatus (refer to EN50131-1:2008-02, paragraph 8.6 Notification, Table 10, page 46, Grade 2).
- The ATS2 notification apparatus specified in the table, is characterized by:
  - •• Transmission time - classification D2 (60 seconds)
  - •• Transmission time - max. values M2 (120 seconds)
  - •• Classification time - classification T2 (25 hours)
  - •• Substitution security - S0 (no detection of device substitution)
  - •• Information security - I0 (no detection of message substitution)

Via software

Click-on the **Telephone** button on the menu on the left, the “Programming” section provides two sections.

- **Telephone numbers**, where all the available telephone numbers and their parameters are listed. Selecting one of these items allows you to set the parameters of the single scenario by clicking on the button.
- **Telephone parameters**, where it is possible to set the parameters of the telephone line and telephone dialers.

Via keypad

`Type-in Code (Installer PIN) , PROGRAMMING Telephone`

In this section it is possible to program both the parameters of each selected telephone number and some parameters of the telephone line. Other parameters are available in the sections:

`Type-in Code (Installer), PROGRAMMING Parameters` or also `Other parameters`

11-1 Telephone numbers

Table 11-1: Parameters of single telephone number

Parameter		Software section	Installer menu section
Description	This is an editable field for the code user's telephone number, to be customized by the installer.	**Telephone numbers, selected number**	`Telephone, Selected number, "number"`
Telephone number	Editable field for the contact number (maximum 20 digits). Accepts also “,” (= 2 second pause), “*” and “#”.		
Type	Telephone number type: • **None** - the selected number can receive SMS text messages only • **Voice** - the selected number can receive voice calls and SMS text messages If the number refers to the Alarm Receiving Centre, assigns the **ARC** protocol (reporting format): • Ademco 10bps, Ademco 14bps, Franklin 20bps, Radionics 40bps, Scantronic 10bps, CONTACT-ID, Ademco Express, SIA-IP		
Account code	This is the 4-character alphanumeric code which identifies the caller in reports to the Alarm Receiving Centre.		

Table 11-1: Parameters of single telephone number

Channel	Selection box for the channel on which you can route the call: • PSTN • Nexus • LAN		
Encryption	This field allows you to select the SIA-IP protocol encryption type: • None • AES 128 bit • AES 192 bit • AES 256 bit After selecting the type is is necessary to indicate the encryption key.		
Receive SMS	This option allows the telephone number to receive an SMS message from the Nexus GSM module, as well as all other event-related communications.		Telephone, Selected number, "number", Options
Toggle channel on call failure	This option, in the event of call failure on a channel, enables the control panel to carry out call attempts on an alternative channel (Nexus) and then retry on the original channel in order to alternate the set number of attempts.		
SIA-IP	If a telephone number is configured as “SIA-IP”, you must program the IP address and the SIA-IP receiver port in this section.		Not available
Enable SIA-IP polling	If a telephone number is a "SIA-IP" type number, this option enables the polling function.		
Partitions	You can associate each telephone number with specific partitions. By selecting the partitions, you can enable/disable users (who have at least one of these partitions in common with the telephone number) to modify the number concerned.		Telephone, Selected number, "number"
Failed call	A key is available that directly accesses the programming section of the failed call.event.		Events, Failed call

“SIA-IP” TYPE

If a telephone number is “SIA-IP” type, the IP address and port of the SIA-IP receiver must be entered in the receiver number field in the “Number” section, using the following format:

xxxyyyzzzttt,ppppp

where:

- “xxxyyyzzzttt” are the 4 octets of the IP address (standard IPv4), each of which should be written with 3 figures and, if necessary, “0” filler characters and no separation points.

- “ppppp” is the port and should be written with 5 figures and, if necessary, “0” filler characters.

POLLING SIA-IP

If a telephone number is a "SIA-IP" type number, it is possible to enable the “polling” function. In this way, from this number the control panel sends a periodic signal to the receiver SIA-IP server, which can verify proper functioning of the transmission. The parameters of the polling periodicity are available in the “Telephone parameters” section (*Table 11-2: Telephone parameters*).

ACCOUNT CODE

Some protocols (reporting formats) accept digits only, whilst others accept also “A”, “B”, “C”, “D”, “E” and “F”, available using keys 2 abc 3 def.

Telephone line 11-2

Table 11-2: Telephone parameters

Parameter		Software section	Installer menu section
Dial-tone check	The control panel will engage the telephone line and check for the “dial tone”; if present, the control panel will start dialing.	**Telephone parameters - Telephone line parameters**	Parameters Dial tone check
Pulse dialing	The control panel will dial using pulse tone.		Pulse dialing
Telephone line fault alert	If a “telephone line fault” event occurs, the control panel will flash the respective icon on the keypad displays.		Line down signal
Double call	The control panel will override the answerphone function. Option available only for PSTN calls.		Double call

Table 11-2: Telephone parameters

Number of rings for answerphone	This value determines the number of rings the system allows before picking up an incoming call (from 1 to 15).		Telephone Number of rings
Ring sensitivity	This value determines the reception sensitivity of incoming call rings. At default this value is set at 60. Accepted values: 1 to 120.		Other parameters, Ring sensitivity
Call all voice / digital / SIA-IP numbers	If several voice calls (digital or SIA-IP) generated by the an event are waiting in the outgoing call queue, the control panel will attempt to send voice calls to all the numbers of this type.	**Telephone parameters, Telephone dialer parameters**	Parameters Call allVoxNums Call all TLVNums Call all SIA-IP
Access DTMF menu without code	Allows access to the User Menu over-the-phone (during voice calls from the control panel) in accordance with the access level (enabled options, etc.) of the last user code that operated on the control panel (code 30, 50 or 100).		DTMF withoutCode
Start message after dialing	The control panel will start the voice message 5 seconds after dialing the respective contact number.		BypassVoiceCheck
Confirm call with "*"	The control panel will consider the voice call successful when the recipient presses the "*****" key on the telephone keypad.		Confirm with *
UTC Time on SIA-IP	Calls to SIA-IP type numbers will contain the date and time in "UTC" format (Coordinated Universal Time).		UTC timeOnSIA-IP
Increase DTMF sensitivity	Option that increase the sensitivity of incoming DTMF tones.		DTMF sensitivity
No SIA strings No SIA-IP strings	The descriptive strings will not be sent in SIA/SIA-IP protocol.		NoStrings SiaProt NoStrings SIA-IP
Arm / Disarm inverted on C.ID	Partition arming events using CONTACT-ID protocol will send the "New event/Event activation" code when the partition arms, and the "Event ended/Event restore" code when the partition disarms.		CONT-IDInversion
Generates one call only for each event	If this option is enabled, it blocks all the calls programmed for an event after the first successful call. If the options "Call all voice/digital/SIA-IP numbers" are enables, then the latter have priority.		SingleCallEachEv
Stop calls on dis-arm with no alarms	The control panel will not carry out the calls programmed for disarm events when there is no active alarm or alarm memory present.		Disab.Tel.Disarm
Number of voice mess. repeti-tions	This value determines the number of times the voice message will be played during the call (from 1 to 15).		Telephone Message repeats
Number of attempts	This value determines the number of calls attempts the system will make before deleting the contact number from the call queue (from 1 to 15).		Max.num.attempts
Delay on line-down signal	This parameter allows you to program the delay, expressed in seconds or minutes, which will be applied before "Line Down" events is signalled.		Other parameters, LinedownDelay
Telephone num-ber 15 reserved for teleservice	For future use	**Telephone parameters, Teleservice parameters**	Parameters Num15 ForTeleserv
Installer call-back	For future use		Install.callback
SIA-IP polling interval	Programming field for the setting, expressed in seconds, of the between two consecutive polling signals.	**Telephone parameters**	Not available
Disabled	Option that disables the polling function for all telephone numbers.		

11-2-1 Telephone line adjustment

The "Outgoing voice volume" and "Incoming voice volume" parameters can be used to correct the voice functions of the dialer and DTMF tones (refer to *Table 4-3: Control panel options*). The values of these parameters affect each other, therefore, and a good result is always a compromise.

If you are not using a GSM interface, you should:

- Adjust one parameter at a time and carry out tests to verify the result.
- Increase/decrease the values in small steps (for example, from 25 to 22 and not from 25 to 15).

- If the DTMF tones are not recognized, or are recognized with difficulty, decrease the value of the “Outgoing voice volume” parameter (in small steps of 2 or 3 units) and verify the effect. If there is no improvement, increase the value of the “Incoming voice volume” parameter until an acceptable level is achieved.
- Do not increase the “Incoming voice volume” parameter excessively, as an excessive value may cause incorrect interpretation of DTMF tones.
- If the volume of the telephone messages is low, increase the “Outgoing voice volume” (in small steps of 1 or 2 units) and verify the effect. An excessive value of the “Outgoing voice volume” parameter may cause incorrect interpretation of DTMF tones.

In most cases, the value of the “Outgoing voice volume” parameter is between 15 and 25, whereas, the value of the “Incoming voice volume” parameter is between 20 and 30.

If there is a SmartLinkAdv GSM interface, it is possible to adjust the values of incoming and of the output volume parameters of the SmartLinkAdv.

Note

Any changes to the value of the SmartLinkAdv incoming volume parameter come into effect almost 2 minutes after the setting change, therefore, you must allow this time to pass before verifying the effect.

Chapter 12 Programming events

The programming of events includes the programming of actions that the control panel must carry out at the occurrence of events. The control panel recognizes all of the events described in this paragraph and, in accordance with programming, is capable of generating pre-programmed actions for each event, both when the event occurs and when it restores/ends.

The actions are:

- activation of outputs
- activation/deactivation of outputs
- event notification via telephone call
- send SMS text messages
- event storage
- management of voice messages
- management of the option of each event
- activation of event related shortcuts

Telephone notifications (calls) are queued and sent out in chronological order. However, some events may need to be notified immediately (for example, use of a code under duress), therefore, such events can be given priority by selecting the “Priority” option.

Event notification via e-mail requires the use of a PrimeLAN board (refer to *Chapter 13 Programming the PrimeLAN board*).

Event notification via predefined SMS messages requires the use of a Nexus (refer to *paragraph 3-5-3 SMS message texts*).

Note

If a list of telephone calls is programmed for the notification of an event as well as SMS messages, the SMS messages will be sent before the telephone calls.

The following table shows the events the control panel recognizes (described in the *Appendix F, Event type*), the number of events for each type, the activation and restoral modes of each event and if the event is a pulse type event.

Via software

Click-on the **Events** button on the menu on the left, the “Programming” section accesses various sections.

- **Events list**, this section is where all the available events and their parameters are listed. The programming field above “Event type” performs a filter on the display of events, in accordance with the type.
  Selecting one of these items allows you to set the parameters of the single event by clicking on the button.
- **Event maintenance**, this section groups together all the fast programming functions of the events.
- **Configure other outputs**, this section allows you to configure the set of outputs selectable for each individual event in the **Other outputs** section.
- **Output scenarios**, this section allows you program the scenarios of the outputs that are to be associated with activation and restoral of each event.

Via keypad

`Type-in Code (Installer PIN) , PROGRAMMING Events`

This section allows you to program the various options of each selected event.

1. Using the and buttons select the event type and press **OK**.
2. Using the and buttons select the single event from the previously selected type and press **OK**.
3. Select:
   - **Activation**, to program the actions to be carried out when the event occurs.
   - **Restoral**, to program the actions to be carried out when the event ends.
4. Set the parameters relating to the event activation or restoral actions.

Programming single events 12-1

Table 12-1: Single event parameters

Parameter		Software section	Installer menu section
Activation / Restoral	The actions are arranged on lines in a table, each with a check box for the activation of the action when the event occurs and a check box for the activation of the action when the event restoral.	**Events list, selected event, Actions**	Events, "Event type", "event", Activation/ Restoral
Tel. number "x"	This section allows you to select the telephone numbers to call on event activation/restoral.		TelephoneNumbers
Output	The output to be activated on activation/restoral of each event can be selected from the check-box list.		Outputs
Notification to Cloud	If the panel is registered with the Cloud, the event will be sent to the Cloud.		Not available
Activate periodic event	When the event occurs, the system will generate Periodic event number 1.		Options StartPeriodicEv.
Clear call queue	When the event occurs, the system will cancel the outgoing call queue.		Clear call queue
Memory	If this option is enabled, activation/restoral of the event will be saved to the events log.		Event ON to log/Event OFF to log
Voice message on keyp. 001	Activation of message playback on the keypad must be set on the keypad at address "001" on activation/ restoral of the selected event.		Local Message ON (for activation) Local MessageOFF (for restoral)
Output scenarios	This section provides boxes for the selection of one of the 50 output scenarios, a field for event activation and one for event restoral.		Not available
Shortcut on event	This programming field is for the selection of a control panel operation that will be activated automatically when the event occurs (refer to *paragraph 12-1-2 Shortcut on event*). This field is followed by a further two fields for the definition of the respective parameters.	**Events list, selected event**	Not available
Sounder/flasher pattern	If a sounder/flasher is included in the outputs, its activation will occur in accordance with the selected pattern.		Siren sound types
Silent event	If the event occurs, the system will generate silent calls which will not be signalled on the keypads.		Options Silent event
Force call to alternative channel	Calls associated with this type of event will be made via the alternative channel of the channel programmed for each telephone number (see **Channel** on *Table 11-1: Parameters of single telephone number*).		ForceAlt.Channel
Priority event	Calls associated with this type of event have priority over all other calls. Therefore, if a priority event occurs, any ongoing calls will be interrupted and the priority-event call will be sent immediately.		Priority
Enable SMS mess.	When the event occurs, the control panel will send an SMS message to all the duly enabled telephone numbers (refer to *Table 11-1: Parameters of single telephone number*, *"Receive SMS"* parameter.	**Events list, selected event Nexus**	Enable SMS
Automatic SMS	If enabled, the dispatched SMS message will consist of the event description contained in the Events log.		Automatic SMS
SMS number	If the "Automatic SMS" option is not activated, the SMS message, selected from the 50 available on the Nexus, will be sent (refer to *paragraph 3-5-3 SMS message texts*).		Not available
Other outputs	This section allows you to activate additional outputs (besides the one programmed for the "Outputs" parameter) in connection with the verification or restoral of the event.	**Events list, selected event, Other outputs**	Events, "Event type", "event", Activation/ Restoral Other outputs
Configure object	At the bottom of the section is a button that accesses directly the programming section of the object (system component) associated with the selected event.		

Note

The "Force call to alternative channel" option is valid only for the Nexus that is installed.

OUTPUT

For the conditions of Zone alarm, Terminal tamper, Partition alarm, Partition in Stay-mode alarm and Partition tamper, if a monostable output is programmed in the "Outputs" parameter,

the event will reset when, at the end of the monostable time, the event has actually returned to stand-by status.

If the event status returns to stand-by while the monostable time is running, the event itself will not be restored.

Note

If the output has the “Do not deactivate on reset” option enabled (refer to *Table 6-7: Output parameters*) and is programmed to restore when the event occurs, it will be deactivated when the event occurs.

OTHER OUTPUTS

The section for the selection of additional outputs provides a list of outputs.

These outputs were in turn selected from the list of all the outputs configured via another programming section. In this further section, common to all events, there are 16 outputs for activating the event and 8 for restoring it.

Via software

If you click the **Events** button on the left-hand menu in the “Programming” section, the **Configure other outputs** programming section provides a list of outputs to be used as “Other outputs” with a check box for each one of them.

Via keypad

`Type-in Code (Installer), PROGRAMMING Events, "event type", "event", Activation/Restoral, Other outputs`

In this section, it is necessary to first select one of the additional outputs and then associate it with one of the configured outputs.

SOUNDER/ FLASHER PATTERN

This section deals with the selection of the audible and visual signals emitted by the sounder/ flashers when these are programmed in the “Outputs” and “Other outputs” sections.

This is a parameter of the event, therefore, if several sounder/flashers have been programmed in relation to a specific event, they will all emit the programmed tone when the event occurs. If a sounder/flasher has been programmed in relation to respond to several events, it will emit the last tone type setting received in order of time.

For a complete understanding of the behaviour of the “Outputs”, “Other outputs” and “Sounder/flasher pattern” parameters of each event, refer to *Appendix G, Combination of outputs triggered by events*.

12-1-1 Voice and digital dialer for the event

The programming of a single event also includes the association of the occurrence of the event with a voice message, a combination of 3 voice messages, and a message with a digital protocol.

VOICE MESSAGE

Each event can be associated with 3 voice messages, selected from the message list (refer to *Appendix D, Voice messages*).

- Message type
- Message A
- Message B

This feature allows you to create messages which will be played during event-related voice calls to contact numbers, both at the start and end of the event.

The choice of the messages to be programmed and the replace sequence of these, depend on the setting of the “AutomaticDialer” option.

The following table shows the voice-message sequence in accordance with the previously mentioned parameters and options.

Table 12-2: Event-related messages

	“Automatic dialer” option enabled	**“Automatic dialer” option disabled**
Message type	Plays the message relating to the event type (e.g. “zone alarm”, “Mains failure”) This message should not be changed.	You can select any message from 1 to 219
Message A	Blank message, editable	
Message B	Contains event details, for events which are not distinctive (e.g. the “zone alarm” event indicates the zone concerned).	
Event Activation Sequence	1. Message type + 260 2. Message A 3. Message B 4. “Location” (244)	1. Message type 2. Message B 3. “Location” (244)
Sequence in the event of Restoral	1. “Restoral” (97) 2. Message type 3. Message A 4. Message B 5. “Location” (244)	1. Message A 2. Message B 3. “Location” (244)

Note

If an event is programmed with the “Automatic dialer” option enabled, the “Message type” parameter will identify messages from 420 to 484, that is, messages containing descriptions of the event types.

Table 12-3: Voice dialer parameters

Parameter		Software section	Installer menu section
Automatic dialer	If this option is enabled, the system will configure an optimal sequence of the messages for the activation/restoral of the event. It is however possible to choose different messages from those available, but the option activated in this way imposes a limited choice depending on the type of event.	**Events list, selected event, Voice dialer**	Events, "Event type", "event", Activation/ Restoral, Options, Automatic dialer
Send address	Option that adds the message corresponding to the recorded address to the message sequence.		Send address
Message type **Message A** **Message B**	Section for the selection of the messages.		Events, "Event type", "event", Activation/ Restoral Message type Message A Message B
	Button to listen to the combined message.		Not available

DIGITAL MESSAGE

The digital message associated with the occurrence of the event follows the protocols in accordance with the following parameters:

Table 12-4: Voice dialer parameters

Parameter		Software section	Installer menu section
Class code	This is the CONTACT-ID reporting format Class-Code which corresponds to the event.	**Events list, selected event, Digital dialer**	Events, "Event type", "event", Activation/ Restoral Class code
Event Code on activation / restoral	This is the 2-character alphanumeric code, which corresponds to the activation/restoral of the event sent the alarm receiving centre (ARC).		Event code
SIA protocol	If the event is associated with calls using SIA protocol or SIA-IP, this parameter allows you to program the event code in accordance with SIA standard by selecting it from the list.		SIA Codes

EVENT CODE

For zone and terminal events (alarm, tamper, bypass), the “CCC” field of the CONTACT-ID protocol counts the number of hard terminals in accordance with the Hard terminals table (refer to *Appendix E, Screw Terminals*).

SIA CODES

An explanatory table of all the SIA codes is provided in the support manual for the installer and programmer.

Shortcut on event 12-1-2

Exclusively via software, it is possible to program for each event the shortcut that will be activated on the activation of the event itself.

These shortcuts function differently from those which can be activated by the user (refer to *Appendix A, Default programming*) and allow the control panel to activate automatically determined operations when the event occurs.

Via software

Click-on the **Events** button on the menu on the left, then from the “Programming section on the right select the single event to be programmed.

The “Shortcut functions” section provides check boxes that allow the selection of the shortcut and definition of the relative parameter:

Table 12-5: Shortcut on event

Shortcuts	Function	Parameter
Activate scenario	Shortcut that activates the scenario selected in the check box alongside.	One of the 30 shortcuts available
Activate output	Shortcut that activates the scenario selected in the check box alongside.	One of the configured outputs
Deactivate output		
Zone bypass	Shortcut that deactivates/activates the zone selected in the check box alongside.	One of the configured zones
Unbypass zone		
Disable code	Shortcut that deactivates/activates the code selected in the check box alongside.	One of the available codes
Enable code		
Disable key	Shortcut that deactivates/activates the key selected in the check box alongside.	One of the available keys
Enable key		
Activate thermostat	Shortcut that activates the keypad thermostat in the operating mode selected in the check box alongside.	One of the keypads available Thermostat operating mode
Deactivate thermostat	Shortcut that deactivates the keypad thermostat selected in the check box alongside.	One of the keypads available
Dimmer up	Shortcut that increases/decreases by 5% the value of the voltage supplied to the dimmer output selected in the check box alongside.	One of the outputs configured as dimmer
Dimmer down		
Delete alarm memory	Shortcut that deactivates the outputs relative to zone/partition alarm and tamper events and deletes the partition and system alarm and tamper memories. This shortcut operates on the partitions selected for the scenario.	One of the 30 shortcuts available

12-2 Maintenance of events

Table 12-6: Single event parameters

Parameter		Software section	Installer menu section
Reset CONTACT-ID default	Button to reset the default values of the digital communicator for all the events.	**Event maintenance**	Default settings CONTACTIDDefault
Delete activation/ restoral outputs	The sections with a **Delete** button allow you to delete all the outputs associated with the activation/ restore actions of each event.		Not available
Delete activation/ restoral calls	The sections with a **Delete** button allow you to delete all the telephone calls associated with the activation/restore actions of each event.		Not available
Delete voice message playbacks on activation/reset	The sections with a **Delete** button allow you to delete all the voice message on keypad playbacks associated with the activation/restore actions of each event.		Not available
Reset SIA protocols to default	This section provides a **Reset default** button that resets the default settings of SIA protocol codes for all the events.		Default settings SIA defaults
Delete shortcuts on event	This section provides a **Delete Shortcuts** button that cancels the “Shortcut on event” parameters on all the events.		Not available

12-3 Output scenarios

It is possible, exclusively via the Prime/STUDIO software, to associate the activation of an output scenario with the activation and restoral of each event.

The Prime control panel provides 50 output scenarios, each with a maximum of 10 outputs.

Programming occurs in two phases: the first is the definition of the scenarios, the second is the assignment to the activation and restoral of the event.

Via software

Click-on the **Events** button on the menu on the left, the “Programming” section on the right will show the "Output scenarios".

SCENARIO DEFINITIONS

There are 50 scenarios available in the list. Selecting one of them will allow you to use the programming area, alongside the list, to configure each of the 10 outputs available.

For each of these it is necessary to indicate the output (from those configured) and the activation type:

- **0/100** - percentage value for dimmer outputs or analogue outputs of a Flex5 expansion.
- **ON** - command that activates the output or, if it is a “switching” type output, changes its operating status.
- **OFF** - command that deactivates the output
- **Force ON** - command that activates the output
- **Toggle** - command that changes the activation status of the output

SCENARIOS ON EVENTS

To assign one of the programmed scenarios to the each event, go to the programming section of the event.

The “Output scenarios” section provides two programming fields for the selection of the scenarios, one relating to activation of the event and the other to its restoral.

Periodic events 12-4

The Prime control panel provides 4 periodic events.

Programming of these events includes the date and time of the first activation and the periodicity.

The activation of the first periodic event can be driven by other events (see the "Activate periodic event" option in *Table 12-6: Single event parameters*).

Table 12-7: Periodic event parameters

Parameter		Software section	Installer menu section
Periodic event	Programming field for the date and time of the first “Periodic Event” You can write the setting on the control panel by means of the **Write on control panel** button.	**Control panel parameters, Periodic event**	Other parameters, Periodic Ev., Periodic Event "x", Time per. Event
Periodic event Interval	This parameter allows you to set the interval between “Periodic events” (expressed in minutes or hours). To disable the “Periodic event” completely, set “0”.		PeriodicInterval Options, PeriodicEv. InMin
Continuous periodic event	If enabled, the system will generate the corresponding periodic event regardless of its initial date/time. The event will be generated when the programming session is exited, or when the system starts up, and will be generated continuously when the set period expires.		Options, Per.Ev. Continuous
Write on control panel	This button writes the setting on the control panel.		Not available

Note

Set the date and time of first occurrence following the current date and time of the control panel.

Programmable events 12-5

A group of events is available for installer programming. Event activation and restoral depend on a combination of other control panel events based on logical operations, counters and timers.

On account of their enhanced flexibility, special attention is required during the programming and testing phases of the programmable events. The effects of the programmable events must always be rigorously tested.

Each programmable event consists of a mathematical-logic formula of events, timers and counters. The programming structure consists of:

- 30 events programmable for Prime060S and Prime060L, 50 for Prime120L and 60 for Prime240L
- 40 timers
- 10 counters

Via software

Click-on the **Events** button on the menu on the left then from the “Programming - Events list” section on the right, select the “Programmable event” option in the “Event type” field.

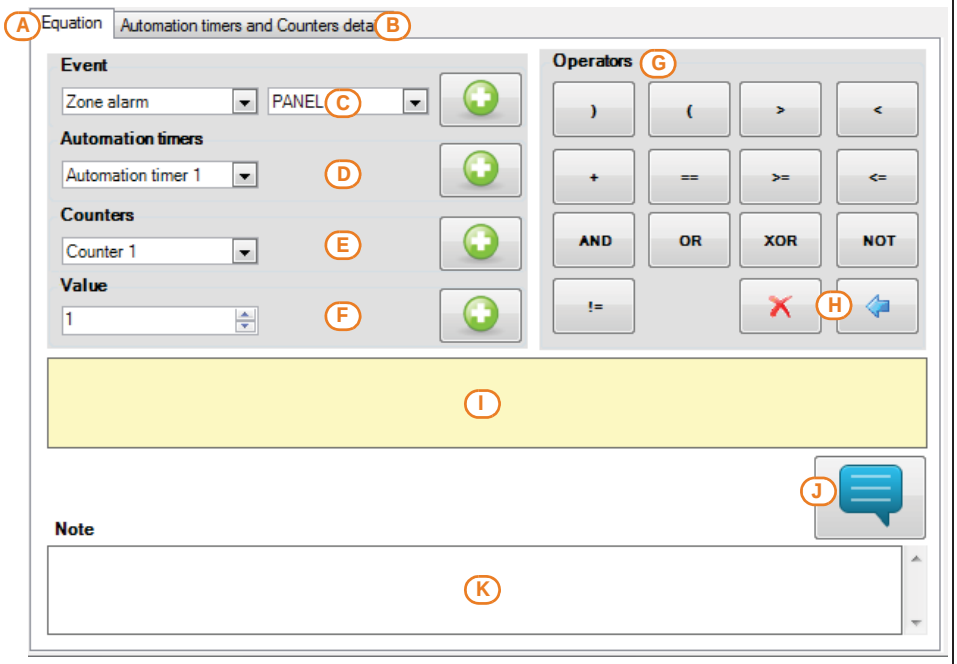
All the available programmable events will appear in the list below. Selecting an event accesses its programming section. The menu bar of this section provides the **Equation** button which opens a window where you can define the event.

This window is divided into two sections:

- Equation
- Timers and counter details

Table 12-8: Programmable event

A	Section for the compilation of the logical expression.
B	Section for the definition of the timers and counters.
C	Selection field and button for the inclusion of the verified control-panel event to be included in the equation. The restoral of the event is included using the event followed by the “NOT” operator.
D	Selection field and button for the inclusion of the timer.
E	Selection field and button for the inclusion of the counter.
F	Selection field and button for the inclusion of the button.
G	Button for entering the logical operators in the expression.
H	Buttons for the deletion of the entire expression or the last element of the expression.
I	Field for the visualization of the expression.
J	Button for the commutation of the visualization mode of the equation (parameters/ descriptions of parameters).
K	Field for the addition of eventual notes..



EQUATION

The logical expression of the event includes various parameters, which may have a “real” value (either “1” or “active” - as in the case of a verified event) or a “false” value (either “0” or “not active” - as in the case of a restored event):

TIMERS

A timer is a logical expression element (it may have an “active” or “non active” value). It is characterized by an interval, therefore, you must specify an interval (in seconds) for each timer you wish to include.

You can select up to four “Start events” (i.e. control panel events which trigger the timer) and up to four “Reset events” (i.e. control panel events which interrupt the timer). You can specify the “Edge” for each of the eight events, that is, the status passage of the selected event (“Activation”, “Reset” or “Both”).

The last two options allow you to choose when the timer will be “active”:

- **Timer active on Start event**. The timer will become “active” on start, that is, when a start event occurs, and will remain “active” for the sat time. The timer will become “non active” when the set time expires or when a reset event occurs.
- **Timer active with delay**. The timer will remain “non active” on start, that is, when a start event occurs and will remain “non active” for the specified time. The timer will become “active” when the specified time expires.

Note

A timer with the “timer active with delay” option enabled will remain “active” until a reset event makes it “non active” again.

COUNTERS

A counter is a logical expression element. It is characterized by an increasing value (“Count”). The counter will have a “non active” value until it reaches the set value, which will take the counter to the “active” value.

You can select up to four “Start events” (i.e. control panel events which increase the counter value) and up to four “Reset events” (i.e. control panel events which annul the counter). You can specify the “Edge” for each of the eight events, that is, the status passage of the selected event (“Activation”, “Reset” or “Both”).

It is necessary to define an “Autoreset” time that will zero the count when, between two successive increases, a superior time elapses. If you do not desire an “Autoreset” time, you must set the time at “65535” (already set at default), in order to ensure that the count never expires.

Note

You should not set an “Autoreset” value of less than 5 seconds.

Once the event programming process is complete and the event is sent to the control panel, the event programming values will be checked for errors.

EXAMPLES

If you want to generate an alarm (i.e. activate sounder/flashers and calls) when only two PIRs (DET1 and DET2) go into alarm status within a pre-set time.

- T0000; timer 1 will activate when the “Zone alarm DET1” Start event activates for 30 seconds
- T0001; timer 2 will activate when the start event of the “Zone alarm DET2” S activates for 30 seconds
- Both conditions must occur together (AND)

T0000 AND T0001

- Therefore, it is necessary to set the activation of the sounder/flasher and calls on the event configured in this way.
- If the programmable event activates an on-BUS sounder/flasher, associate its deactivation with an event.

If you wish to activate an output for 40 seconds when key 17 is used to arm partition 1, and to disarm and the same output when the partition disarms.

- T0000; associate timer 1 with the activation of the Start event of key 17 recognition
- T0000; timer 1 with a 40 second timeout, “timer active with delay” option enabled
- T0000; associate timer 1 with the restoral of the reset event of partition 1
- Programmable event 1 must be programmed as:

T0000

- Select the output you want to activate in concurrence with the programmable event
- If the programmable event activates an on-BUS sounder/flasher, associate its deactivation with an event.

If you wish to receive a telephone call when a zone q, which belongs to partitions 1 and 2, is violated and one of the two partitions is armed

The automation zone q always generates the zone alarm event (even when the partitions are disarmed). However, the programmable event will occur only when the zone q is in alarm status and at least one of the two partitions is armed.

- Configure zone q as “automation” belonging to partitions 1 and 2
- Remove all the outputs and phone calls associated with the “Alarm zone q” event
- The programmable event must be programmed as “Alarm zone q” AND (“Partition 1 armed in away mode” OR “Partition 2 armed in away mode”):

E0010 AND (E0790 OR E0791)

- Associate the programmable event with the telephone call you wish to receive

If you wish to activate a telephone call after 3 consecutive wrong code entries (with a maximum of 120 seconds between each entry).

- C0000; counter 1 will activate on activation of the “False code” Start event, with a count of 3, 120 second autoreset time
- The programmable event must be programmed as:

C0000

- Associate the programmable event with the telephone call you wish to receive

If you wish to activate a telephone call and output when at least two detectors out of 5 go into alarm status.

- The programmable event must be programmed as (“Alarm zone 1” + “Alarm zone 2” + “Alarm zone 3” + “Alarm zone 4” + “Alarm zone 5”)>=2

(E0000 + E0001 + E0002 + E0003 + E0004) >= V0002

- Associate the programmable event with the telephone call you wish to receive and the output you wish to activate.

Chapter 13 Programming the PrimeLAN board

The button on menu on the left, **PrimeLAN settings**, allows you to read and program the PrimeLAN Ethernet interface board.

The programming data read is that of the board, the sent programming data will be saved to the memory of the board connected to the control panel and not to the control panel memory.

13-1 Programming e-mails

The use of the optional PrimeLAN board provides the user with the possibility of sending e-mails with attachments relating to the control panel events.

The sending of e-mails on activation or restoral of events depends on the activation of the “Memory” option of each event (refer to *Table 12-1: Single event parameters*).

Table 13-1: E-mail parameters

Parameter		Software section
Subject	The “Subject” field of all e-mails - when an e-mail is sent, the PrimeLAN board uses this parameter as the subject for all type of events. Depending on e-mail configuration, the “Subject” field can be added with event type description or a customized text.	**E-mail parameters, Parameters**
Sender	This is the e-mail address of the sender.	
Mail Server	Address of the SMTP server of outgoing post.	
Port	This is the out port of the post server (SMTP).	
Account	This field is for the selection of a domain for which an automatic configuration of the parameters can be obtained by pressing **Preconfigure**.	
SSL Method	Check box for the selection of the SSL protocol	
Timeout (s)	Selection field for the maximum time (from 60 to 300 seconds) within which the control panel must send an email to the post server.	
Authentication request	Check box for the selection of the authentication type	
User name Password	Authentication credentials of the SMTP server selected above	
Id. Name Address	Section for the creation of the address book, with the data of the recipients of the e-mail messages. This data can be set both in this section and during the assignment of the recipients to the e-mail message. It is possible to save up to 20 e-mail contacts.	**E-mail parameters, Address book**

Following are the parameters that allow you to configure the e-mail messages, setting the text and associating it with the occurrence of events and certain recipients:

Table 13-2: Email message configuration

Parameter		Software section
Event type	Selection field for the selection of type of events to be programmed. The application will show all the programmable events for the selected type.	**Email configuration**
Activation / Restoral	The “Activation” and “Restoral” sections are the same and are intended, respectively, for the programming of the dispatch of e-mails when the event occurs (Activation) and when the event ends (Restoral).	
Sel	If you click on the respective check boxes of events with this option enabled, you can program simultaneously the recipient contacts, text and attachments, as described in the following paragraphs. If you right click on the header on this column, you will be able to carry out selections/deselections which involve all the control panel events or all the events of the same type.	

Table 13-2: Email message configuration

Re: (events log)	If this option is enabled, the message text of the event will be saved to the control panel memory. If you right click on the header on this column, you will be able to carry out selections/deselections which involve all the control panel events or all the events of the same type.
Recipients	Double click on the respective check box to access the e-mail addresses in the contact list. The **Contacts** window allows you to select and change the e-mail addresses of the recipients. There are 3 buttons: • **Apply** - allows you to add or delete the recipient contacts for the selected event only. • **Apply to events of the selected group** - allows you to add or delete the recipient contacts for all events of the same type as the selected event. • **Apply to all the selected control panel events** - allows you to add or delete the recipient contacts for all the selected control panel events.
Subject	For each event, this field allows to edit the info provided with the subject of the e-mail in addition to what is indicated in the *Table 13-1: E-mail parameters*. Double click on the respective event field to access the **Subject** window where you can write a text: • if this text is left blank, the subject of the email will also contain the description of the generic event type • if you have entered text, this will be included in the subject for the specific event The 3 buttons **Apply**, **Apply to events of the selected group** and **Apply to all the selected control panel events** have the same functions as previously described. The **Set default for selected** button set automatically the subject format: “event type - detail”. If you position the mouse arrow on the text body, the contents will be shown in a tooltip.
Text body	This option allows you to edit the text body of the e-mail for each event. Double click on the respective event field to access the message **Text body** window where you can write a text of up to 512 characters on several lines. You can also add links for direct access to web pages or LAN devices (for example, IP cameras), in this case, you must always include “http://”. The 3 buttons **Apply**, **Apply to events of the selected group** and **Apply to all the selected control panel events** have the same functions as previously described. If you position the mouse arrow on the text body, the contents will be shown in a tooltip.
Attachment	You can attach a document/file to the e-mail. A double click on the box of the selected event accesses the **Explore** window where you can load or cancel the selected file from the SD-card. The 3 buttons **Apply**, **Apply to events of the selected group** and **Apply to all the selected control panel events** have the same functions as previously described.
Camera	It is possible to associate a camera to each event. A double click on the relative field of the selected event will open the **Select Onvif camera** window. This window will allow you to select a camera from those configured and select two presets for it. The presets can be selected from those listed after updating the dedicated section (refer to *paragraph 12-1-2 Shortcut on event*). The 3 buttons **Apply**, **Apply to events of the selected group** and **Apply to all the selected control panel events** have the same functions as previously described.
Record on SD	If enabled, the recorded frames will be saved to the SD card that is inserted into the PrimeLAN board.

Graphic maps 13-2

The use of the optional PrimeLAN board provides the user with the installation monitoring function with graphic maps.

By clicking on the **PrimeLAN settings**button on the menu on the left, you will access the “Graphic maps” section. Refer to *Chapter 20 Graphic map configuration*.

ONVIF cameras 13-3

Remote ZTL control and preset audio/video profiles allow hassle-free user interaction with ONVIF protocol cameras.

The PrimeLAN board offers the support for JPEG and MJPEG streaming for surveillance cameras, viewable as a full video or snapshot. Interaction with ONVIF cameras allows viewing of recorded images (videos and snapshots) previous to and after the occurrence of an event.

The frames are sent as attachments to emails associated with events or are stored for viewing using a web interface or AlienMobile application, through the “Camera” section.

To do this it is necessary to:

- program the ONVIF camera (using its own presets), provide it with the ZTL presets necessary for viewing the zone under surveillance and recorded video
- associate a camera with the occurrence (activation or restoral) of an event through the **Email configuration** section (refer to *paragraph 13-1 Programming e-mails*)
- activate the **Record on SD** option (refer to *paragraph 13-1 Programming e-mails*) for the viewing of recorded frames through a web interface
- using the Prime/STUDIO software, configure the ONVIF camera by clicking-on the **PrimeLAN settings** button and then going to the“Programming - ONVIF camera management” section on the right.

This section provides a pane containing the list of the configured cameras. At the side of this is another section containing the parameters relative to the selected camera:

Table 13-3: ONVIF camera parameters

Parameter		Software section
	Buttons for the addition of a new camera or for the deletion of the selected camera.	**ONVIF camera management**
Include Security Header in messages	This option, if enabled, includes the “Security Header” in the SOAP messages for the communication with Onvif devices.	
Description	This is the description of the selected camera.	**ONVIF camera management, Camera**
IP address Port User name Password	Parameter that permits access to the selected camera.	
https	If selected, a secure HTTPS connection will be used.	
Multimedial profile	Field for the selection of one of the multimedia profiles of the camera. These profiles are listed following a read operation requested by pressing the button. The button opens a window showing all the available profiles and where you can edit the “Token” and name of each one. The window provides two buttons: • - for manual entry of a profile in the list • - for deletion of the selected profile	
Pan - Tilt - Zoom	This field indicates whether the selected camera is equipped with PTZ (Pan, Tilt, Zoom) capabilities.	
Preset available for the selected profile	This section lists all the presets relating to the profile selected in the previously mentioned programming field. These presets are listed following a read operation requested by pressing the button. The button opens a window showing all the available presets and where you can edit the “Token” and name of each one. The window provides two buttons: • - for manual entry of a preset in the list • - for deletion of the selected preset	
URI Snapshot URI Stream	This field allows you to view the addresses (URIs) of frames shots and audio/ video streams. These addresses are listed following read operation requested by pressing the button.	
Sampling frequency	This is the time that must elapse between two successive frame shots (max. 60 seconds).	
Number of frames pre/post event	This is the number of frames (from 0 to 5) which will be saved to the memory before/after the occurrence of the event the camera is associated with.	
Images	The image in the lower part of the section reproduces the instant frame of the camera selected after pressing the button. Clicking on the image itself opens window for the viewing of video footage in real-time, control of the camera functions and display of the available presets.	

Programming KNX interface 13-4

By clicking on the **PrimeLAN settings**button on the menu on the left, you will access the “Programming KNX” section.

This section contains three further sections, one for setting the parameters of the KNX gateway and communicating with it, the other boards for translating of signals to and from the KNX system.

Table 13-4: KNX gateway parameters

Parameter		Software section
Enable KNX function	This option enables communication between Prime and KNX systems.	**Programming KNX, General settings**
IP address / UDP Port / Group address of the KNX gateway	Check boxes for setting the KNX-IP interface gateway data.	
Control panel code	Check box to indicate the Prime user code for commands and actions from KNX devices.	
Polling time	Time interval in seconds of interrogation of the Prime control panel.	
KeepAlive time	Time interval in seconds between two successive supervision signals of the KNX gateway.	

CONTROL PANEL CODE

When necessary for the security system, it is a good idea for the installer to create an additional Prime user equipped with a PIN code, capable of carrying out commands and actions from KNX devices even when validation from the Prime control panel is required.

FROM CONTROL PANEL TO KNX

This section allows you to define which panel events must be communicated to the KNX system via commands or actions and to translate these into "KNX telegrams".

These events (maximum of 3000) are added to the list below via the appropriate button + .

Table 13-5: Signals from Prime control panel to KNX system

Parameter		Software section
Value	Check box to indicate the event type.	**Programming KNX, From control panel to KNX**
Element	Check box to indicate the parameter of the type of event that defines the event itself.	
Element category	Check box to indicate the category of the element that defines the event itself.	
KNX telegram	Check boxes to enter the KNX telegram to be sent following the corresponding event.	
...	Button to open the "Add KNX telegram" window.	
Delete	Button to delete the corresponding event from the list	

KNX SOLUTIONS

The "Add KNX telegram" window, which is opened by the button **...**, provides the **Open** button to open “.esf” format files, the solution files of KNX programming software.

Once one of these solutions has been selected the window will show a tree structure with the various elements of the KNX system and the relative telegrams. A double click on one of these items allows you to import the telegram into the appropriate box.

FROM KNX TO CONTROL PANEL

This section allows you to define which signals from the KNX system in the form of "KNX telegrams" must be communicated to the Prime control panel and which actions must be performed.

These events are added to the list below via the appropriate button + for a maximum of 3000 actions.

Table 13-6: Signals from KNX system to Prime control panel

Parameter		Software section
KNX Event	Field for the insertion KNX telegram, signal from the KNX system corresponding to an event.	**Programming KNX, From KNX to control panel**
...	Button to open the "Add KNX telegram" window.	
Actions on control panel	Check box to indicate the action to be activated on the Prime control panel.	
Element / Mode	Action parameter.	
Execute if bit=0	Options that activate the action on the control panel depending on the bit associated with the signal from the KNX.	
Execute if bit=1		
Execute anyway		
Execute as a bit		
Delete	Button to delete the corresponding event from the list	

The activation of an action in the Prime control panel triggered by a signal from a KNX system depends on the value of the bit that accompanies each telegram and on the selection of one of the “execute” parameters indicated above. Following is an explanatory table:

Table 13-7: Actions on control panel from KNX system

Action		Execute if bit=0		Execute if bit=1		Execute anyway		Execute as a bit	
on control panel	**Mode**	**bit=0**	**bit=1**	**bit=0**	**bit=1**	**bit=0**	**bit=1**	**bit=0**	**bit=1**
Arm in Stay mode	**Away mode**	Activation action	No action	No action	Activation action	Activation action	Activation action	Activation “Disarm”	Activation action
	Stay Arm	Activation action	No action	No action	Activation action	Activation action	Activation action	Activation “Disarm”	Activation action
	Instant mode	Activation action	No action	No action	Activation action	Activation action	Activation action	Activation “Disarm”	Activation action
	Disarm	Activation action	No action	No action	Activation action	Activation action	Activation action	No action	Activation action
	Reset	Activation action	No action	No action	Activation action	Activation action	Activation action	No action	Activation action
Zone bypass	**Bypass**	Activation action	No action	No action	Activation action	Activation action	Activation action	Activation “Unbypass”	Activation action
	Unbypass	Activation action	No action	No action	Activation action	Activation action	Activation action	Activation “Bypass”	Activation action
Activate exit	**Activation**	Activation action	No action	No action	Activation action	Activation action	Activation action	Activation “Deactiva-tion”	Activation action
	Deactivation	Activation action	No action	No action	Activation action	Activation action	Activation action	Activation “Activation”	Activation action
Activation scenario	**Activation**	Activation action	No action	No action	Activation action	Activation action	Activation action	No action	Activation action

13-5 Updating the PrimeLAN firmware

Through a direct connection between the Prime/STUDIO software and the Prime control panel, it is possible to update the control panel firmware to the latest revision available at moment of the software release.

Via software

Click-on the **Firmware upgrade** button on the menu on the left, the “Programming” section will show the buttons for the updating procedure.

Click-on the **PrimeLAN board** button. A section will open with the available updates and the Start procedure button.

ATTENTION!

In order to avoid invalidating the procedure, do not switch off or disconnect the PC or Prime control panel during the updating process.

Voice messages

Chapter 14

The Prime provides a programming section where you can record and play all the voice messages.

The Table in the Appendix shows all the pre-recorded messages provided by the SmartLogos30M voice board (*Appendix D, Voice messages*).

Via software

Click-on the **Voice messages** button on the menu on the left, in the “Programming” section you can access to:

- **Messages list**, this section is where all the available voice messages and their parameters are listed.
  The "Message category" box at the top implements a filter on the display of messages, depending on the category it belongs to.
  Selecting one of these items will allow you to set up the single message by clicking on the button or listen to it by means of the relative button .
- **Voice board maintenance**, section for formatting the SmartLogos30M voice board.

The menu bar of these sections has the following buttons:

Table 14-1: Voice messages, menu bar

Button		Function
	Import	Keys to import/export the voice message programming
	Export	
	Execute Text to speech	Button to apply the text to speech setting to the selected messages. The texts entered in the Text to speech section will be converted into audio files and associated with all the messages. selected in the table.
	Configure Text to speech	Button that opens a window where you can change the text to speech settings
	Invert selection	Button to invert the selection of the messages
	Delete	Button to delete the selected messages

Via keypad

`Type-in Code (Installer), PROGRAMMING Messages`

This programming field will allow you to select the single message. Afterwards it will possible to listen to, record or delete the recording.

14-1 Programming a single voice message

Table 14-2: Voice message parameters via software

Parameter		Software section
Nr.	Message index inside the voice board memory.	**Messages list**
Description	This is an editable field for the message description.	
Type of coding	Type of coding for the message: • No Message - no recording or playback • High quality - for superior recording/playback quality • Average quality - for good recording/playback quality (similar to phone-line quality).	
Quality	Check box for the recording quality of the associated audio file.	
Time	This is the duration of the associated audio file (expressed in seconds).	
Text to speech	Text of the associated audio file.	
Message category	This is the message type the selected message belongs to.	**Messages list, selected message**
Note	This field allows you to edit the text you wish to associate with the message.	
Recorder	This section provides software for the playback and recording of audio files. This software allows you to edit the audio file associated with the message and: • Load an audio file (.wav) • Play the loaded audio file • Record a new audio file • Reset the selected file to default	
Good / Average Quality	Button for the selection of the sound quality of the audio file.	
Text to speech	This section allows you to edit the text which will be converted to an audio file and associated with the message. The conversion and association with the message will occur after the execution of text to speech (in this section this can be done using the record button).	

Via keypad

`Type-in Code (Installer), PROGRAMMING Messages, "message", Record`

Before recording a voice message, you must first select:

- **No Message** - no recording or playback
- **High quality** - for superior recording/playback quality
- **Average quality** - for good recording/playback quality (similar to phone-line quality).

High quality messages occupy twice the memory space of average quality messages of the same length.

The recording phase will start when the **OK** button is pressed, the recording time (in seconds) will be indicated by a second counter on the display. If you wish to stop the record/playback operation manually press **OK**, otherwise, it will end automatically when the pre-set time expires.

`Type-in Code (Installer), PROGRAMMING Messages, "message", Play`

Message playback section. You can adjust the volume during the playback phase using keys  and  .

`Type-in Code (Installer), PROGRAMMING Messages, "message", Delete`

Delete message section. The control panel will ask for confirmation before deleting the message by means of the **OK** button.

14-2 Voice board maintenance

Table 14-3: Voice board maintenance operations

Parameter		Software section
Read all messages from the control panel	Button that allows the reading from the control panel of all the messages on the voice board.	**Voice board maintenance**
Write all messages on the control panel	Button that allows the writing on the control panel of all the programmed voice messages.	
Check SmartLogos board	Button to start a check on the voice board and obtain information regarding its firmware version.	**Voice board maintenance, Formatting the SmartLogos board**
Formatting the voice board	Button to start the formatting process of the voice board in order to align the firmware version with that of the control panel. The following formatting options are available: • Preserve previously-recorded messages • Format using default messages	

Keypad shortcut and icon

Chapter 15

The Prime provides two programming sections to edit the shortcut icons that appear on the keypad display in correspondence to keys **F1**, ..., **F12**.

The basic icons and association with the shortcuts at default are shown in the table in *Appendix A, Default programming*.

Icons

15-1

Via software

Click-on the **Icon** button on the menu on the left, the "Programming" section on the right will provide a grid with all the 80 icons available. Of these the last 30 are "empty" icons, that is without any design.

Selecting one of these icons opens a page where it is possible to edit:

- **Description**, the descriptive string associated with the icon.
- You can change the design of the icon by means of digital graphic tools.

Association shortcut-icon

15-2

Via software

Click-on the **Association shortcut-icon** button on the menu on the left, the "Programming" section on the right will provide a grid with all the 38 available shortcuts and their associated icons.

The selection of one of these icons opens a section in the lower part of the screen showing all the 80 icons and their descriptions. Clicking-on any one of these associates it with the selected shortcut.

Via keypad

1. Accessing the “Shortcuts” section:

`Type-in Code (Installer), PROGRAMMING Shortcuts`

2. Use keys and to select the shortcut then press **OK**.
   Set the parameters:

- **Description** - this is the descriptive string of the shortcut which can be customized by the installer.
- **Icon** - this section allows you to select the icon you want to associate with the shortcut, by indicating the icon number

3. Use keys and to scroll across the digits of the number.
4. Use the number keys to edit the number.
5. Press **OK** to confirm the operation and exit.

Chapter 16 Events log

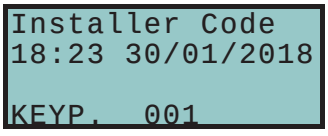
Via software

Click-on the **Events log** button on the menu on the left, the “Programming” section on the right will allow you to view all the events saved to the control panel log. The lines on the table show the single events and the columns show the relative data.

Table 16-1: Events log via software

Parameter			Software section
Num.	Number which indicates the chronological order of the events in the log.	You can group the events into categories by dragging the header of the required category to the grey line above the columns.	
Date/Time	Event date and time		
Event	Type of event		
Filter	Parameters for further event details.		
Agent			
Location			
Category	Logic grouping of events		
Num.	Number which indicates the chronological order of the events in the log.		
Date/Time	Event date and time		
	Button to download the events log from the control panel.	These buttons are active only when you are working on a solution or a database. In particular, the **Save** button is enabled after a reading from the control panel.	**Menu bar** 
	Print button for the events log		
	Button to save the contents of the events log to the database.		
	Button to load the contents of the events log from the database. A from-to period will be requested, if no particular period is specified the entire contents of the Events Log will be loaded.		
	Button to delete the Events log from the database. A from-to period will be requested, if no particular period is specified the entire contents of the Events Log will be deleted.		

Via keypad



`Type-in Code (Installer), PROGRAMMING User functions, View`

This section allows you to display the event log on the keypad, also through the subdivision of these:

- **Events log** - allows you to view all the events saved to the log.
- **Alarms log** - allows you to view all the events relating to zone/partition alarm and tamper saved to the log.
- **Faults log** - allows you to view all the fault events saved to the log.
- **Arm/Disarm ops.** - allows you to view all the arm/disarm operations saved to the log.

Use key  or  to scroll the chronological events list. For some events, pressing the  button allows you to view the partition details. For example, the details of an “Arm” command will show the code and keypad concerned and, if you press the  button, the list of partitions involved.

Via Alien

Access the “Intrusion” section and enter the user code. You will be provided with the “Events log”.

All the events saved to the log will be displayed one at a time. However, the up/down keys will allow you to scroll the entire list of events.
Each event shows the relative details and, where possible, allows you to view the partitions involved by means of the **PARTITIONS** button.

Chapter 17 Default settings

The operations necessary for the reset of the factory default data vary and can be carried out by the installer through one of the means of access the installer has to the control panel:

- the **FACTORY** and **RESET** buttons on the control panel PCB
- the keypad, via the installer menu
- the Prime/STUDIO software

ATTENTION!

Reset of the factory default programming data deletes all the previously programmed parameter settings.

Note

Reset of the factory default programming data does not cancel the connection of the control panel to the Cloud.

Via PCB

1. Press and hold the **FACTORY** button on the motherboard.
2. Press and release the **RESET** button on the motherboard.
3. Release the **FACTORY** button.

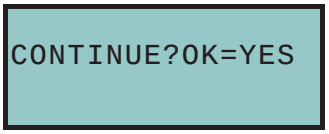
Within 70 seconds the control panel will reset the parameters factory default values, enroll all the peripherals currently on the I-BUS and, if at least one keypad is connected, will ask you to select the Language.

Reset to factory default will not clear the events log.

Via keypad

`Type in Code (Installer), PROGRAMMING Factory settings`

This section allows you to reset to default settings all the control panel parameters, auto-learn zone balancing values, auto-enroll I-BUS peripherals and restore the event codes of CONTACT-ID reporting format.



Following each of these operations, the control panel will ask for confirmation by pressing the **OK** button.

Via software

The Prime/STUDIO software program allows you to reset the control panel default values only for the following parameters:

- digital dialer parameters
- “CCC” field of CONTACT-ID protocol of the zones
- phone calls on activation and restoral
- outputs on activation or restoral
- message playback on keypads on activation or restoral
- SIA protocol parameters

Table 17-1: Reset operations

Parameter		Software section	Installer menu section
Full reset	If you select this option, the control panel will reset all programming data to factory default settings.	Not available	`Default settings, Factory data`
Learn zone balancing	If you select this option, the control panel will gather and and save the balancing settings of all the zones automatically (Patent Pending).	Not available	`Learn zone bal.`
Enroll peripherals	If you select this option, the control panel will reconfigure the IBUS and enroll in the new configuration all the peripherals that respond to the auto-enroll peripheral command.	Not available	`Autoenroll periph.`

Table 17-1: Reset operations

Reset CONTACT-ID event codes	If you select this option, the control panel will reset all the event codes used for the CONTACT-ID protocol to factory default (refer to *paragraph 12-1-1 Voice and digital dialer for the event*).	**Events maintenance, Reset to default CONTACT-ID protocols**	CONTACTIDDefault
Reassign the CCC in sequential mode	If you select this option, the control panel (after requesting confirmation) will implement incremental numbering (from "1") in the "CCC" field of the CONTACT-ID protocol for the events relative to the zone.	123	CONT-ID enumer.
Reset SIA protocols to default	If you select this option, the control panel (after requesting confirmation) will reset to factory default all the SIA parameters of all events.	**Events maintenance, Reset SIA default**	SIA defaults
Delete events programming	Pressing the **OK** button will delete all the control panel events, both on activation and restoral: • All outputs • All calls • All options	Not available	DeletePrg.events
Wireless data reset	Pressing the **OK** button will delete all the data relating to the Air2-BS200 device. The data relating to the detectors and wireless keyfobs will not be deleted, nor will the devices simulated by the Air2-BS100 transceiver be deleted from the configuration.	Not available	WLS data reset
Reset PIN codes	Pressing the **OK** button will delete all the programmed User PIN codes and will reset the default codes.	Not available	Reset PIN default
Reset keys	Pressing the **OK** button will delete all the enrolled keys.	Not available	Reset keys only

AUTO-LEARN BALANCING

This option allows the control panel to learn the balancing of all the zones automatically (Patent Pending).

The zone-balancing options are:

- Normally Open
- Normally Closed
- Balancing (Single balancing)
- Double balancing
- Roller blind with EOL

The balancing settings which are not acquired accurately are:

- Roller blind without EOL (which is classified as a normally-closed generic zone)
- Double zone without EOL (which is classified as a normally-closed generic zone)
- Double zone with EOL (which is classified as a generic zone with Double balancing)

In order to allow accurate acquisition of the balancing settings of all the zones, you must:

1. Wire and select the balancing settings of all the zones.
2. Ensure, as far as possible, that all the zones are in stand-by status
3. Activate the "Learn zone bal." option.
4. Verify that the operation has been carried properly and that all the settings are accurate (if any zones are not in stand-by status during this process their balancing will not be acquired accurately).
5. Set manually any inaccurate settings.

Chapter 18 User functions for the installer

The installer menu on the keypad contains a section that provides the installer with the functions shared with the user.

Via keypad

1. Access the “User Functions” section of the installer menu:

`Type-in Code (Installer) , PROGRAMMING User functions`

The options available are:

- Activations
- View
- Outputs ON/OFF
- Set date/time

2. Use keys and to select the required function then press **OK**.

ACTIVATIONS

This section provides information regarding the “Cloud registration” option which allows the Prime control panel to access INIM Electronics cloud service.

VIEW

- **Events log** - allows you to view all the events saved to the log.
- **Alarms log** - allows you to view all the events relating to zone/partition alarm and tamper saved to the log.
- **Faults log** - allows you to view all the fault events saved to the log.
- **Arm / Disarm ops.** - allows you to view all the arm/disarm operations saved to the log.
- **Nexus status** - allows you to view (on the display) the following parameters of the Nexus device:

Table 18-1: View Nexus status on the keypad

Line	Display	View
1	TELECOM C G	• Mobile network provider (on the left side) • if “--” appears, it means that the Nexus is connected to the BUS • the letter “C” indicates that data transfer is ongoing • network technology data (on the left side) G, GPRS service 3G, UMTS service H, HSPA service
2	GSM signal 01	GSM signal reception (value between 1 and 100)
3	Credit 11	Remaining credit balance at the last operation (expressed in the local currency)
4	Low signal	Faults present, if present it will be necessary to access the “View-Faults” section for details.

- **System voltage** - allows you to view the voltage:
  - measured on the battery
  - power-supply of the control panel
  - measured on terminal “AUX x”
  - measured on terminal “+” of the I-BUS

- **Zone status** - allows you to view the status of all the zones. Use keys and to scroll the list of accessible zones. The display shows the following zone parameters:

Table 18-2: View Nexus status on the keypad

Line	Display	View
1	FD living room	Zone description
2	Standby Unbypsed	Zone status (“Standby”, “Alarm”, “Short”, “Tamper”), its activation status (“unbypassed” - capable of generating alarms, or “bypassed” - incapable of generating alarms)
3	Lev.07 000 mdB/m	Various indications depending on the device type: • wired zone; resistance value reading expressed Ohm • wireless zone; wireless signal reception level (from 0 to 7) • Air2-FD100 smoke detector, strength of wireless signal and level of smoke present in the smoke detection chamber, expressed in mdB/m
4	Dust level 000%	Level of contamination present in the smoke detection chamber of the Air2-FD100 smoke detector (%)

Note

It is advisable to clean the detector when the value exceeds 90%.

- **Faults ongoing** - allows you to view any ongoing faults.
- **Panel version** - allows you to view the firmware version and model of the Prime control panel.

OUTPUTS ON / OFF

Allows manual activation/deactivation of the outputs by means of keys ∗ and #.

WRITE DATE / TIME

Allows you to set the date and time of the control panel (refer to *paragraph 4-2 Prime control panel*).

Via software

The Prime/STUDIO software program provides a section which, during a direct connection to a Prime control panel, allows you to monitor the entire system in real time and access some of the above-mentioned parameters.

Select the “Monitoring” option from the menu bar.

A window containing various sections will open. The sections can be selected by means of tags, each referring to a different part of the system (refer to *Chapter 21 Monitoring the control panel*).

Chapter 19 Compliance with rules in force

In order to guarantee compliance with the regulations in force, you must adhere to the following guidelines:

NBY/X

The nBy/X readers must be equipped with devices that protect them against the forced-opening of their casings (EN50131 grade 2) and dislodgement from their placements (EN50131 grade 3), as indicated in *paragraph 3-2-10 Installing nBy/X readers* in the Installation manual.

ANTI-DISLODGEMENT OF CONTROL PANEL

The protection against control panel tamper (*Table 4-3: Control panel options*) must be enabled (EN50131 grade 3).

KEYPADS

JOY, Aria/HG, nCode and Concept keypads must be equipped with enabled tamper-protection devices, as indicated in *paragraph 3-3-2 Addressing the keypads* in the Installation manual.

FLEX5/U

The FLEX5/U devices must be mounted inside the enclosure of Prime control panels (refer to the Installation manual, *Table 2-5: Control panels - description of parts, M*), or must be equipped with a device that protects them against the forced-opening of their casings (EN50131 grade 2) and dislodgement from their placements (EN50131 grade 3).

ZONE BALANCING

The lines relating to the intrusion-detection zones must be configured as 'Double balancing' with double EOL resistors, or as Single balancing with single EOL resistor. They must also be equipped with devices which protect them against the forced-opening of their casings.

TAMPER EVENTS

Terminal tamper, peripheral tamper and control-panel tamper events must trigger audible signals (sounder signals) for a period of not less than 3 minutes.

The output activated by the previously mentioned tamper events must be different from the output activated by alarms signals.

PIN

All Code PINs must have 6 digits.

TIMERS

If a Timer is used for automatic-arming operations, the Pre-arm times must be programmed separately for each partition (the pre-arm time must not be set at “0”).

19-1 EN50131, Grade 2

Compliance with EN50131 Grade 2 is guaranteed by observing the following guidelines.

OPTIONS

Table 19-1: EN50131 grade 2 - Enablement of options

Parameter		Software section	Installer menu section	Status
Wrong PIN keypad lockout	*Table 3-1: Parameters common to all keypads*	**Keypad parameters**	Parameters, Keypad lockout	**Enabled**
Does not arm if any of the zones are not ready	*Table 4-3: Control panel options*	**Control panel parameters**	OpenZonesArmLock	**Enabled**
Prevents the deletion of tamper memory by user code			NoUserTamp.reset	**Enabled**

Table 19-1: EN50131 grade 2 - Enablement of options

Reader LED OFF	*Table 4-6: Parameters for compliance*	**Regulatory compatibility, Parameters 50131**	50131ReaderLedOFF	**Enabled**
Hide status			50131StatHidden	**Enabled**
Hide icons			50131IconsHidden	**Enabled**
Alarm delay			50131AlarDelayed	**Enabled**
Fault memory LED			50131WarnLedMem	**Enabled**
Reader Buzzers OFF	*Table 3-4: Parameters common to all readers*	**Reader parameters**	ReaderBuzzer OFF	**Disabled**
Bypass tamper in the event of bypassed zones	*Table 4-3: Control panel options*	**Control panel parameters**	BypassAlsoTamper	**Disabled**
Zone fuse fault	*Table 4-6: Parameters for compliance*	**Regulatory compatibility Forced arming faults**	Other parameters, FaultForNotReady Zone fuse fault	**Enabled**
I-BUS fuse fault			IBUS fuse fault	**Enabled**
Low battery			Low battery	**Enabled**
Mains failure			Mains failure	**Enabled**
Telephone line down			Tel. line down	**Enabled**
Jamming			Jamming	**Enabled**
Low battery wireless			Low battery WLS	**Enabled**
Wireless zone loss			WLS zone loss	**Enabled**
Loss or tamper ongoing			LossTamp.ongoing	**Enabled**
Requires code	*Table 3-2: Parameters for single keypads*	**Configured keypads , selected keypad, General, Advanced**	Shortcut Func.keys, "Fx", Options, Requires code	**Enabled**
Clear call queue on disarm	*Table 5-1: Parameters for single partitions*	**Partitions, selected partition**	Partitions, "partition", StopTelOn Disarm	**Disabled**

ZONES

Zones configured as “24H”, “Automation” are non-compliant.

Zones programmed as “Arm”, “Disarm”, “Switch” or “Follow” comply only when activated by keyswitches with more than 10,000 code combinations.

An input is set up for system fault management.

For zones with the “Fault zone” option enabled, it is necessary to eliminate from the relative alarm event the programming of an external sounder/flasher in the “Outputs” parameter. You can programme indoor sounderflashers via the “Other outputs” option.

SOUNDER/ FLASHERS

The system must include a self-powered outdoor sounder/flasher for intrusion-alarm event signalling.

TELEPHONE DIALER/ COMMUNICATOR

The telephone dialer must be enabled.

If you use a digital dialer or voice dialer with SmartLogos30M board for transmissions, a telephone number must be reserved for the following events:

- All events generated by zones with the “Hold-up” attribute.
- All events generated by “Instant”, “Delayed”, “Delayed unhidden” and “Route”
- All events generated by terminal, peripheral and control panel tamper.
- All faults detected by the control panel.

PARAMETERS

The “Alarm Cycles” parameter of each zone must be set between 3 and 10.

The “Mains fail.Delay” parameter must be set at no more than 1 minute.

The “Entry Time” of each partition must be set at a maximum of 45 seconds.

You must enable the “Priority” option for any alarm events associated with “Hold-up” zones.

“Failed to arm” and “Forced arming” events must be saved to the Events log.

The programmed “LowBattery delay” must not be programmed at more than 5 minutes.

19-2 EN50131-3 and EN50131-6 grade 3

Compliance with the EN50131-3 and EN50136-3 grade 3 standards is guaranteed by adding to the requirements indicated in the *paragraph 19-1 EN50131, Grade 2* the following.

OPTIONS

Enable the “50131 grade 3 compatibility” control panel option(*Table 4-6: Parameters for compliance*).

ANTI-MASKING DETECTORS

If the installation uses detectors with an anti-masking function, each anti-masking signal must be managed as follows:

- Prepare an input terminal for the anti-masking signal connection.
- “Description” parameter: assign an explanatory description to the signal
- Enable “Zone fault” option

Enable the “Do not arm if zones are not ready” (*Table 4-3: Control panel options*)

ATS4

Use an ATS4 notification appliance:

- protocol: SIA-IP with encryption
- interface: LAN (integrated on the motherboard) or PrimeLAN

Graphic map configuration

Chapter 20

The Prime supervision functions are based on graphic maps which can accessed by the end-user through an Alien keypad or web interface. The user, by means of access to a graphic map, can view the supervised partition and also access the security system functions.

The Alien keypad can manage up to 10 maps (revisions below 2.00 can manage up to 5 maps) and the web interface up to 20. Each map accepts a maximum of 20 objects/buttons represented by icons.

Note

In order to use the graphic maps it is necessary to use an SDcard in micro-SD format.

The card must inserted into the slot on the Alien keypad, for the configuration and access to the Alien keypad maps, or inserted into the slot on the PrimeLAN Ethernet interface board for the web accessible maps.

Note

The programming of the maps of an Alien keypad is uniquely linked to the SDcard used.
Changing the SDcard or using it in several keypads causes the programming to be completely lost and can cause keypad malfunction.

Via software

Exclusively using the Prime/STUDIO software, access to the map configuration is achieved through the sections:

- Graphic maps of the Alien keypad - click-on the **Keypads** button on the menu on the left, from the "Programming" section on the right select the “Touch-screen” keypad and access the “Alien Maps” section:
- Graphic maps of the Web interface - click-on the **PrimeLAN settings** button on the menu on the left then go to the “Programming - Alien Maps” section on the right.

A field, located in the centre of both sections, shows the images of the current maps.

Above this is a bar with the icons of the objects to be inserted and the buttons to edit the current map.

To the left of this you will find the graphic-map tree with the objects inserted.

NEW MAP

The construction of a new map is carried out as follows:

1. Add a new map by clicking on the button.
2. Associate an image with the map by selecting a file by means of the button.
3. Insert an object from among those available on the icons bar.
   The objects are inserted by clicking on the respective icon on the bar and then by clicking on the point on the map where you wish to place it.
4. Load the configured map in the control panel by means of the button.

If, instead, you intend to change the maps that are already programmed in the control panel, you must first read the configuration by means of the button and then implement the changes.

Table 20-1: Map configuration buttons

Buttons	Programming Alien	Programming Web interface
Object icons		
	Left-clicking on any one of the icons positioned on the map will highlight the icon which will then be shown in a frame that allows you to resize or reposition it. Right-clicking on any one of the icons positioned on the map or map tree on the left allows you to delete the object concerned or change its settings; in this case a window will open showing all the editable settings (refer to *Table 20-2: Map object settings*).	
	Button to show or hide the map tree located to the left of the displayed map.	

Table 20-1: Map configuration buttons

	Buttons for the addition of a new map in the last position on the map tree or for the deletion of the last map on the map tree.	
	Button for the insertion or overwriting of the background image of the current map. The name of the current image file is indicated in the lower section.	
	The selection of several icons by means of these buttons will allow you to create their alignment.	
	The selection of several icons, by means of these buttons,will allow you to modify their size and apply the dimensions of the first icon selected (width, height or both).	
	Not available	The selection of an icon, by means of these buttons, will allow you to resize and reposition the icon so that it occupies a quarter of the image.
	Button to read the configured maps from the keypad or from the PrimeLAN so that they can be modified.	
	Button to write on the keypad or on the PrimeLAN the newly configured or modified maps after a reading.	

Table 20-2: Map object settings

Section	Parameter		Note
Size and position	**Height, Width, Position X and Y**	Number fields for the dimensions of the object icon and its position on the map.	
	String	Field for the string that appears over the icon.	For Alien only
		Button for the definition of the colour of the string.	
Control panel	Field for the selection of the part of the intrusion control system the icon refers to.		Zone, partition, output, scenario, keypad
Map link	Field for the selection of the map the link refers to. You can indicate the home page for the web interface.		
Web cam	**URL**	Configuration parameters for the webcam.	For the web interface only.
	jpeg, m-jpeg		
Images	Section containing the icons which replace the current icons in the event of status change of the represented object. For Alien keypad maps, it is possible to indicate the strings that will appear (when the occurrence requires) below the current string, indicated previously mentioned.		
		Button to select the image that will replace the default image.	
		Button for the deletion of the selected image.	For the web interface only.
		Button for the definition of the colour of the string.	For Alien only
		Button to reset the factory default images	
Options	**Command selection window**	If enabled, touching the icon on the map will open a window on the display for command selection.	For Alien only. The commands implement a status change on the object. The type of status depends on the type of object: • Arming type - for a “Partition status” object • Activation/ Enablement status - for a “Zone” object • Activation/ Enablement status - for an “Output” object • Activation/ Enablement status - for a “Scenario” object
	Command with authorization request	If enabled, the keypad will request user-code entry before activating the command associated with the icon.	
	Switch/Invert	If enabled, touching the icon on the map will immediately switch/invert the status of the object it represents. The “Partition status” object requires further indications relating to the arming type which is to be switched to Away status (totally disarmed).	
	Immediate command	If enabled, touching the icon on the map will almost immediately activate the command. The command can be selected from the drop-down menu which appears.	
	View status	If enabled, this option will allow you to view on the display status changes on the object by means of changes on the icon, in accordance with the configuration selected in the Image section.	
		Button to reset the factory default settings.	

Monitoring the control panel

Chapter 21

The Prime/STUDIO provides a section where, after a direct connection to the control panel (refer to *Chapter 4 Connection between the software and control panel*), it is possible to carry out real-time monitoring on the entire system.

Click-on the **Monitoring** button on the menu bar. The "Programming" section provides various sections selectable by means of tabs with headers, each one concerning different parts of the system and monitoring functions.

Some of these functions are also reachable from the keypad.

Remote keypads

21-1

Via software

Click-on the **Monitoring** button on the menu bar, then go to the “Programming, Remote Keypad” section.

In this section is divided in two parts. The left hand side shows all the keypads available for the system, but only those currently connected to the control panel are highlighted (in colour).

If you click on one of the keypads on the right, an exact replica of the it will appear and it will be possible to view the status of the LEDs and implement commands by means of the buttons.

The following buttons are available:

Table 21-1: Monitoring buttons for the open section

Button	Function
Refresh	This refreshes the connection with the control panel and thus renew the images in the window.
Thermostat on keypad	This button opens the section relating to the “thermostat” function for keypads equipped with thermometers. You can program the thermostat and also adjust its temperature setting and operating times. The temperature and operating times settings can be adjusted by means of the indicators on the operating level bars. The Temperature section indicates the ambient temperature sensed by the keypad thermostat which is reproduced in this section.
Control panel status	Button to open, at the bottom of the window, a section where you can view the real-time status of the control panel. A list of the basic functions of the control panel, the system parts and components will be shown and also information regarding the proper functionality of the system or any ongoing faults.

Monitoring Partitions

21-2

Via software

Click-on the **Monitoring** button on the menu bar, then go to the “Programming, Partitions” section.

The top of this section shows a series of icons which represent all the partitions that group together the system zones. These icons show the arming status of the partition based on colour:

- red - armed in Away mode
- blue - armed in instant mode
- orange - armed in Stay mode
- green - disarmed

If necessary, these icons also report the alarm or tamper status of one of their zones showing the appropriate icon (refer to *paragraph 21-3 Monitoring terminals*).

By clicking on one of the partition icons, in the “Controls” section you can view the status of the partition, its status, tamper conditions and whether the "auto-arm" function has been enabled (refer to *paragraph 5-1 Partition parameters*).

The “Actions” section is also available where, once a valid user code has been entered, it is possible to change the arming status of the partition or carry out reset.

21-3 Monitoring terminals

Via software

Click-on the **Monitoring** button on the menu bar, then go to the “Programming, terminals” section.

On selecting a partition from the section at the top, the section will divide into two parts:

- the left side will show the list of all the zones of the selected partition
- the right side will show the list of all the system outputs

Both sections will show the status of the items listed according to the icons present:

Table 21-2: Terminal status icons

Icon	Status
	Zone operating normally and in stand-by status
	Zone in alarm status
	Zone with alarm memory
	Zone tamper in progress
	Zone with tamper memory

Icon	Status
	Zone in test mode.
	Zone disabled
	Output activated
	Output deactivated

The lists also provide a button to enable or disable the related zone, as well as a button to activate or deactivate the related output. These operations are allowed only after entry of a valid user code authorized to carry out these operations.

Via keypad

`Type-in Code (Installer) , PROGRAMMING User functions, View, Zone status`

21-4 Monitoring timer

Via software

Click-on the **Monitoring** button on the menu bar, then go to the “Programming, Timer” section.

This section provides a grid containing all the available timer icons.

The status of each icon reflects the status of the respective timer and indicates, in real-time, whether it is enabled or not, or whether it is currently On (operating).

21-5 Monitoring peripheral and wireless devices

The Prime/STUDIO software provides various sections for the monitoring of wireless devices and I-BUS connected devices, selectable by means of the headers at the top, in each of them the peripherals are represented by icons.

Via software

Click-on the **Monitoring** button on the menu bar, then go to the “Programming, Peripherals, Peripheral details” section.

PERIPHERALS

This section shows which keypads, readers and expansion boards, of those available, are included in the configuration and which of theses are present or in tamper status.

PERIPHERAL DETAILS

This section is further divided into several sub-section in accordance with the type of peripheral.

The **Update** button (bottom right) provides details of each peripheral:

- tooltips provide information regarding the peripheral model and whether it is present in the configuration or not
- the address, firmware version and operating voltage of each of the peripherals present is shown alongside the icon

Monitoring of the Nexus communicator requires a further selection achieved by ticking the respective check box.

WIRELESS DEVICES

The “Peripheral details” section provides the sub-section for wireless devices, selectable via the label. This section, after clicking-on the **Update** button, shows a list of all the wireless devices connected to the control panel.

The monitoring-operation provides the following feedback for each device:

- an index of the reception quality of the wireless signal
- the percentage of the battery charge

The colour of the values shown also indicates the level of both the signal index and the charge (red-orange-green).

Monitoring sounder/flashers 21-6

The monitoring phase on the sounder/flashers, both wireless and on the I-BUS, provides feedback relating to the status sounder/flashers and their descriptions.

Via software

Click-on the **Monitoring** button on the menu bar, then go to the “Programming, Sounder/flashers” section.

The information relative to each sounder/flasher is shown after the respective icon. If the sounder/flasher is configured the icon will not be blanked out and will be accompanied by its description and the status, fault and tamper icons, as follows:

Table 21-3: Sounder/flasher icons

Category	Icon	Notification
Alarms		Sounder/flasher loss
		Sounder active
		Flasher active
		STATUS LED On
		PRG LED On
		Sounder flasher tamper
		Foam tamper protection activated
		Wire cutting
		Blow torch protection activated

Category	Icon	Notification
Faults		Sounder broken
		Low battery
		Battery fault
Status		LED input activated
		Output FAULT active
		Output TAMPER active
		Sounder/flasher undergoing programming

WIRELESS SOUNDER/FLASHER

The programming section of the wireless sounder/flashers allows you view their status.

Via software

Click-on the **Sounder/flashers** button on the menu on the left, the “Programming” section on the right will show a list of configured sounder/flashers. By selecting a sounder/flasher with the “Wireless” attribute, the “Real time” sub-section will allow you to view the sounder/flasher status.

In this section, the monitoring window lists the parts of the sounder/flasher whose status is represented by icons/LED:

Table 21-4: Wireless sounder/flasher status LED

LED		Status
Tamper	Green	Sounder/flasher not in tamper status
	Red	Sounder/flasher in tamper status (open or dislodged)
Antifoam	Green	Foam level below alarm signalling threshold
	Red	Foam level above alarm signalling threshold
Battery fault	Green	Battery charged
	Red	Battery charge low (below 40%)
Sounder active	Green	Audible signalling Off
	Red	Audible signalling On

LED		Status
Flasher active	Green	Visual signalling Off
	Red	Visual signalling On
STATUS LED ON	Green	STATUS LED Off
	Red	STATUS LED On
PRG LED ON	Green	PRG LED Off
	Red	PRG LED On
Signal reception level		This series of notches represents the reception level of the wireless signal of the device as received by the Air2-BS200 transceiver.
Battery level		Percentage of the sounder/flasher battery charge.

Instead, the “Wireless monitoring” sub-section provides the **Start** button that starts a monitoring on the variation of the signal transmitted by the device and background noise detected over time.

21-7 Walk test

This section provides a quick and easy way of testing all the configured inputs.

After initializing the Walk test, all the operator need to do is walk through the protected partitions and then check the detection capacity of the inputs via the system keypad or Prime/STUDIO software application.

Via keypad

`Type-in Code (Installer) , PROGRAMMING Walk test .`

Access to this section opens the full list of configured zones on the keypad display.

As these input zones are violated by the operator carrying out the walk test, they will be cleared from the list and the keypad will emit a long beep.

You can consider the outcome of test positive when there are no zones left on the list.

Via software

Click-on the **Monitoring** button on the menu bar, then go to the “Programming, Sounder/flashers” section.

The list of zones and the **Start Walk test** button will be shown.

Once the test starts, the operator can walk through the entire area protected by the system and verify the correctness of the detection capacity of the inputs by means of the information reported in this section, marking the violated areas with a red dot and the time of the violation.

The **Print Walk test** button allows the so0ftware to print the test results.

21-8 Monitoring the power supply

The software has a section for monitoring the power supplies, through LEDs with the relative colours and values shown in the readings.

Via software

Click-on the **Monitoring** button on the menu bar, then go to the “Programming, Power” section.

After clicking-on the **Start monitoring** button this section will show:

- data relating to the power supplied to the control panel
  - primary power supply
  - power and secondary power supply

- •• power supply module
- •• battery

- the data relating to the power the control panel supplies to the devices in the field:
  - •• voltages and currents on the "**AUXx**" terminals
  - •• voltage and current on the I-BUS

Monitoring Flex5/DAC expansions 21-9

The software monitoring function allows you to view the status of the outputs of all the connected Flex5/DAC expansions and to work on them.

Via software

Click-on the **Monitoring** button on the menu bar, then go to the "Programming, DAC peripheral" section.

In this section you must first select the expansion, form those configured, by entering the relative address in the appropriate field. After clicking-on the **Start monitoring** button this section will show the following:

- Status of each of the 5 outputs on the expansion:
  - •• power absorbed by the load, phase shift or power factor and current for alternating current loads at mains voltage
  - •• Percentage of the supplied power with respect to the maximum possible, measured exclusively for dimmable loads.
- Buttons for the activation or deactivation of each single output or to change the voltage supplied to the dimmer output (this operation is allowed only after the entry of a valid user code)
- Voltage supplied to the expansion

Chapter 22 Programming example

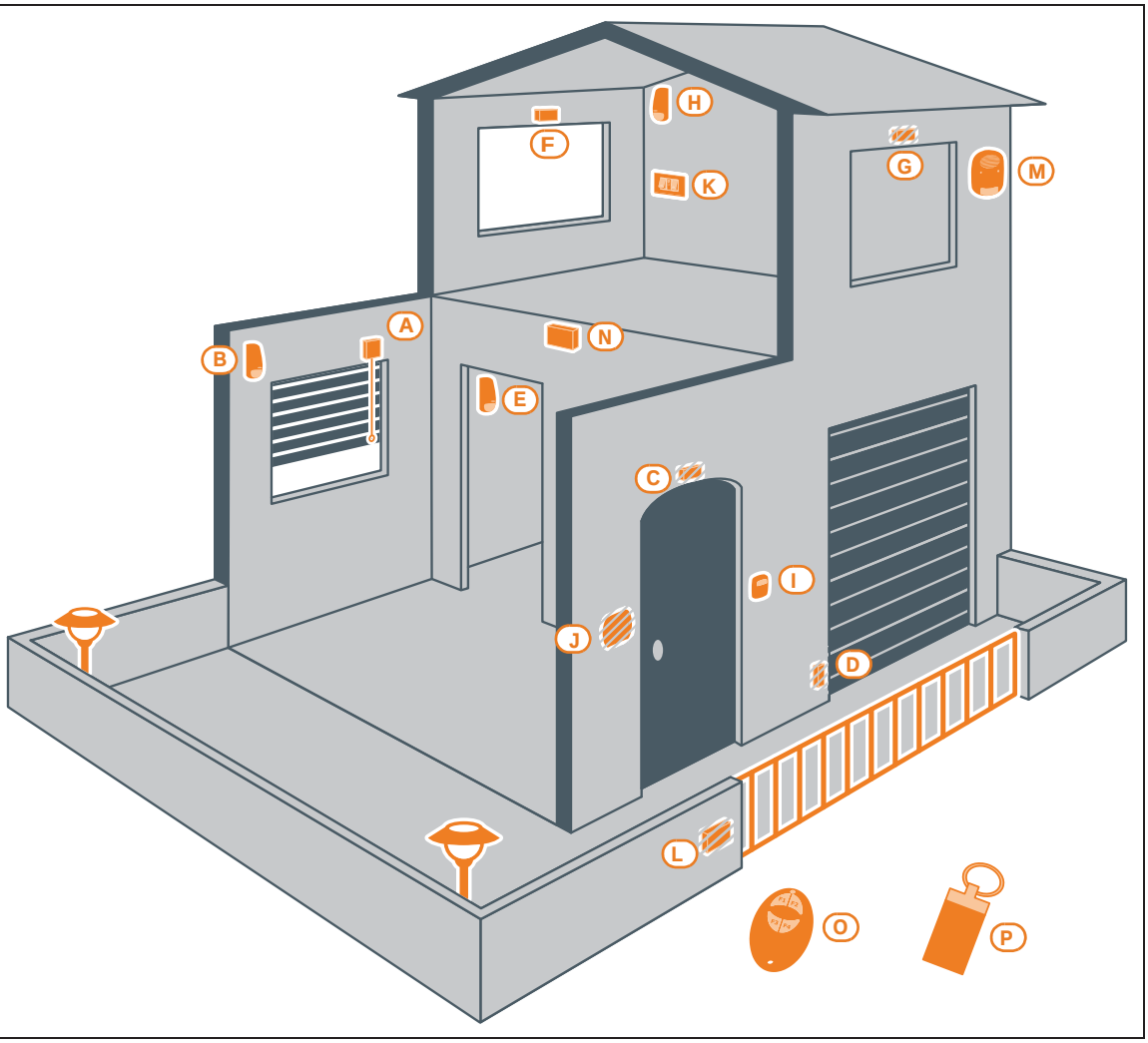
This example describes the installation of a Prime system in a residential building.

It explains the basic programming procedure that must be carried out on the installed devices and aims at staying as close as possible to the control-panel default programming.

Ideally this procedure directly follows the instructions given in the installation manual for the first startup of the system

Table 22-1: Installation example

A	Roller blind detector
B	Motion detector entrance
C	Magnetic contact entrance door
D	Magnetic contact garage shutter
E	Motion detector living room
F	Magnetic contact window 1 bedroom
G	Magnetic contact window 2 bedroom
H	Motion detector bedroom
I	Reader entrance door
J	Keypad
K	Reader bedroom
L	Expansion
M	Sounder/flasher
N	Wireless transceiver
O	Wireless keyfob
P	Key



START PROGRAMMING

The control panel must be enabled for the connection with the Prime/STUDIO software.

1. Start the programming session

Via keypad

`Type-in Code (Installer) , PROGRAMMING`

Via software

Start a new solution by selecting the control panel model such as the one in the installation.

Click-on the **Settings** button on the menu bar, set up the connection to the control panel.

in order to have the system configuration available, perform a read operation using the **Read** button.

PROGRAMMING PARTITIONS

2. Change the descriptions of the partitions:

- Partition 1 - “Ground floor”
- Partition 2 - “First floor”

`PROGRAMMING Partitions, "Partition 00x", Description`

Via keypad

Click on the **Partitions** button on the menu on the left, the “Programming” section on the right will show the list of available partitions.

Via software

Here, by selecting the partition to set up, it is possible to change the parameter “Description”.

PROGRAMMING ZONES

3. Program the zones (all connected to the control panel):

`PROGRAMMING Terminals,` select the terminal concerned

Via keypad

or

`PROGRAMMING Zones,` select the zone associated with the terminal concerned

To program the zone, select the **Terminals** button. The “Programming” section on the right will show the graphic representation (map) of the terminals of the entire system.

Via so re

By double clicking on the terminal concerned you will enter the terminal programming phase.

Table 22-2: Zone parameters

Device	Description	Partition	Zone type	Option	Balancing	Detector type
A	Roller blind detector	Ground floor	Instant	None	Normally closed	Roller blind
B	Motion detector entrance	Ground floor	Delayed	Interior	Normally closed	Generic zone
C	Magnetic contact entrance door	Ground floor	Delayed	None	Normally closed	Generic zone
D	Magnetic contact garage shutter	Ground floor	Instant	None	Normally closed	Generic zone
E	Motion detector living room	Ground floor	Instant	None	Normally closed	Generic zone
F	Magnetic contact window 1 bedroom	First floor	Instant	None	Normally closed	Generic zone
G	Magnetic contact window 2 bedroom	First floor	Instant	None	Normally closed	Generic zone
H	Motion detector bedroom	First floor	Instant	None	Normally closed	Generic zone

PROGRAMMING SCENARIOS

4. Add a third partial arming scenario (Stay mode) to the default scenarios (Scenario 1 “Away mode” and Scenario 2 “Disarm”) of both partitions.

`PROGRAMMING Arming scenarios, "SCENARIO 003", Partitions, "partition", Stay`

Via keypad

Click-on the **Arming scenarios** button on the menu on the left, the “Programming” section on the right will show the list of available scenarios.

Via software

Here, select scenario 3, set “Stay mode” for the “Ground floor” and “First floor” partitions.

PROGRAMMING READERS

5. Associate the “Ground floor” and “First floor” partitions with the readers, and scenario 3 Stay mode (arm partially) to the default scenarios:

`PROGRAMMING Readers, ChoosePeripheral, "READER 00x", Partitions`

Via keypad

In this section you can enable the “Ground floor” and “First floor” partitions.

`PROGRAMMING Readers, ChoosePeripheral, "READER 00x", Shortcut`

In this section you can select the shortcut associated with the red and blue LEDs by first selecting the “Arm/disarm” type then the scenario to associate with the LED.

Via software

Click-on the **Readers** button, the “Programming” section on the right will show all the configured readers.

Clicking-on the button accesses the section where you can select the partitions to associate with the reader and associate the shortcut with the red and blue LEDs.

Table 22-3: Reader parameters

Device	Description	Partitions	Red LED shortcut	Blue LED shortcut
I	Reader entrance door	Ground floor First floor	Default	Default
J	Keypad (built-in reader)	Ground floor First floor	Default	Execute “Scenario 3” arming mode
K	Reader bedroom	Ground floor First floor	Execute “Scenario 3” arming mode	None

PROGRAMMING KEYPAD

6. Associate the keypad with the “Ground floor” and “First floor” partitions.

Via keypad

`PROGRAMMING Keypads, ChoosePeripheral, KEYP. 001", Partitions`

In this section you can enable the “Ground floor” and “First floor” partitions.

Via software

Click-on the **Keypads** button, the “Programming” section on the right will show the configured keypad.

Here you can associate the keypad with the partitions.

PROGRAMMING EXPANSIONS

7. To program the devices connected to the expansion terminals:

Via keypad

`PROGRAMMING Terminals,` select the terminal concerned

Press the 2 abc button to configure the terminal as an output. Press **OK** to access the programming menu.

Via software

To program the zone, select the **Terminals** button. The “Programming” section on the right will show the graphic representation (map) of the terminals of the entire system.

Right clicking-on the expansion terminal will allow you to configure it as an output, after which a double click will access the terminal programming phase.

Table 22-4: Expansion parameters

Device	Terminal	Description	Type	Output options	Monostable time
L	1	Gate	Output	Monostable	30 seconds
	2	Garden lights	Output	Monostable Switch	60 minutes

PROGRAMMING KEYS

8. Associate the keys (*[O]* and *[P]*) with the “Ground floor” and “First floor” partitions:

Via keypad

`PROGRAMMING Keys, Change key, "Key 00x", Partitions`

In this section you can enable the “Ground floor” and “First floor” partitions.

Via software

Click-on the **Keys** button, in the "Programming" section on the right you will be able to view the keys and the partitions to associate with them.

9. Enroll the keys, using one of the proximity readers and/or a keypad.

Via keypad

`PROGRAMMING Keys, Enroll, "Reader 00x", "Key 00x"`

Hold the key in the vicinity of the reader and then move it away. The keypad you are working on will emit a beep to confirm that the key has been enrolled.

PROGRAMMING WIRELESS KEYFOBS

10. Associate the shortcuts for the arm/disarm commands and control of expansion outputs to the keyfob command buttons *[O]*

Via keypad

`PROGRAMMING Keys, Key parameters, "Key 00x", Shortcut`

This section will allow you to associate the shortcuts that are not default shortcuts, specifically “Activate output” shortcuts. to buttons**F3** and **F4** then select the respective outputs on the expansion.

Via software

Click-on the **Keys** button to access the "Programming" section on the right, then select the key that corresponds to the wireless keyfob by clicking-on the corresponding button .

The “Shortcuts” section will allow you to associate the shortcuts with the buttons.

Table 22-5: Shortcuts for wireless keyfobs

Device	Button	Shortcuts	Parameter	Default
O	**F1**	Arm/Disarm	Scenario 1 “Away”	Yes
	F2	Arm/Disarm	Scenario 2 “Disarm”	Yes
	F3	Activate output	Gate	No
	F4	Activate output	Garden lights	No

11. Enroll the wireless keyfob via the simulated reader of the transceiver (*[N]*, identified on the keypad by the letter “W”).

Via keypad

`PROGRAMMING Keys, Enroll, "READER 00x W", "Key 00x"`

At this point you have 3 minutes to enroll the wireless keyfob by pressing simultaneously buttons **F3** and **F4**.

The positive outcome of the operation will be signalled by 3 blinks on the green LED of the wireless keyfob and a long audible signal on the buzzer.

CLOSING THE PROGRAMMING SESSION

12. Close the programming session after saving the modified data.

Via keypad

Press the **Esc** several times until the following message appears on the display:

`EXIT? OK = YES`

On pressing **OK** you will automatically exit the programming session, save the programmed data and reboot of the control panel.

Via software

Using the **Write** button carry out a write operation.

At the end of this operation the control panel will reboot and it will possible to close the software solution in progress.

Appendix A Default programming

Keypads

- keypad “1” enabled
- all keypads belong to partition 1
- 12 programmed shortcuts: Execute Arming Scenario 1 - Execute Arming Scenario 2 - Delete telephone calls - Delete memory - Zone activation menu (bypasses) - View alarm log - View faults - Time/date setting - Voice function menu - Intercom call - Thermostat menu - Keypad settings menu

nBy Readers

- belong to partition 1
- shortcut programmed on the red LED: Execute Arming Scenario 1

Partitions

- entry time and exit time 30 seconds
- Autoreset memories on arming
- clear call queue on disarming

Terminals

- terminals on control panel: inputs
- terminals on expansion boards: inputs
- terminals on keypads: unused

Zones

- belong to partition 1
- have N.C. balancing (normally closed)
- zones T1 and T2 on the control panel are delayed; all other zones are instant
- unlimited alarm cycles (repetitive)

Outputs

- the output relay is monostable, normally closes, monostable time at 3 minutes

Scenarios

- scenario 1: Away arm partition 1
- scenario 2: Disarm partition 1

Codes

- user code 1 belongs to all partitions
- all other codes do not belong to any partition
- only Code 1 is “Master” user
- enabled on all sections of the user menu
- 8 programmed shortcuts (keys F1-F4): Clear call queue - Activation Output 2 - Deactivation Output 2 - View zone status - View system status - Enable answerphone - Enable Teleservice - Teleservice request
- 6 programmed shortcuts (keys 1 to 6): Listen-in - Execute Scenario 1 - Execute Scenario 2 - Stop alarms - Activate Output 2 - Deactivate Output 2
- voice guide enabled

Keys

- belong to partition 1
- Maintenance option enabled

Telephone

- contact numbers 1 to 6 in the phone book have the voice attribute (user)
- contact numbers 7 and 8 in the phone book are for alarm receiving centres CONTACT-ID
- contact number 9 in the phone book has the voice attribute (for the installer)
- contact number 15 is for teleservice

Zone alarm / tamper events

- relay output activated
- “Other outputs / Sounder/flasher 1” activated
- on activation of the event, calls contact numbers 1 to 8
- on restoral of the event, calls contact numbers 7 to 8

Zone bypass events

- calls to contact numbers 7 and 8

Partition Arming / Disarming events

- calls to contact numbers 7 and 8

Partition Arming / Disarming events

- calls to contact numbers 7 and 8

Emergency button (Panic) events

- on activation of the event, calls contact numbers 1 to 8

Open-panel / Panel dislodgement events and tamper on peripheral events

- relay output activated
- “Other outputs / Sounder/flasher 1” activated
- on activation of the event, calls contact numbers 1 to 8
- on restoral of the event, calls contact numbers 7 to 8

Blown fuse, A.C. mains failure, peripheral loss and low battery events

- activated Output 1
- calls to contact number 9 (voice cal to installer)

Sounder / flashers

- causes shutdown on the sounder and the flasher, reset memories on partition (Partition 1)

Appendix B Default Shortcuts

Shortcuts			on keypad			on codes		on reader	on keys	on event
description	function	parameter	n.	icon	string	via keypad	over-the-phone			
Arm / Disarm	Applies a pre-set scenario	which scenario	**1**		Arm/Disarm	Available	Available	Available	Available	Available Activate scenario
Stop alarms	Deactivates instantly the outputs activated by alarm and tamper events		**2**		Stop alarms	Available	Available	Available	Available	Not available
Clear call queue	Cancels the entire call queue and stops ongoing calls (if any).		**3**		Clear call queue	Available	Available	Available	Available	Not available
Delete memory	Carries out a “Stop alarms” operation and, at the same time, deletes memory of system and partition alarm and tamper events.		**4**		Delete memory	Available	Available	Available	Available	Available
Activate output	Activates one of the programmed outputs.	Output	**5**		Activate output	Available	Available	Available	Available	Available
Deactivate output	Deactivates one of the programmed outputs.	Output	**6**		Deactiv. output	Available	Available	Available	Available	Available
Overtime	Delays auto-arming time of partitions by 30 minutes.		**7**		Overtime	Available	Available	Available	Available	Not available
Teleservice request	Sends a call to the Installer company number (Teleservice number).		**8**		Teleservice req.	For future use	For future use	For future use	For future use	Not available
Voice guide	Plays a recorded voice message which announces the shortcuts assigned to the number keys.	User code	**9**		Voice menu	Available (only for number keys)	Available	Not available	Not available	Not available
Listen-in	Allows eavesdropping over-the-phone by means of a microphone located on suitably placed keypad.	Keypad	**10**		Listen-in	Not available	Available	Not available	Not available	Not available
Intercom Call	Accesses the user menu section: Voice functions / Intercom		**11**		Intercom Call	Available	Not available	Not available	Not available	Not available
Arm / disarm menu	Accesses the user menu section: Arm/Disarm		**12**		Arm/disarm menu	Available	Not available	Not available	Not available	Not available
Alarm management menu	Accesses the user menu section: Manage alarms		**13**		Alarm menu	Available	Not available	Not available	Not available	Not available
Voice functions menu	Accesses the User Menu section: Voice functions		**14**		Voice func. menu	Available	Not available	Not available	Not available	Not available
Activations menu	Accesses the user menu section: Activations		**15**		Activations menu	Available	Not available	Not available	Not available	Not available
View Nexus status	Accesses the user menu section: View/Nexus status		**16**		View Nexus status	Available	Not available	Not available	Not available	Not available
Partition status	Provides voice information regarding the armed/disarmed status of the partitions.		**17**		Partition status	Available	Available	Not available	Not available	Not available
Keypad settings	Accesses the user menu section: Set settings		**18**		Keypad sett.menu	Available	Not available	Not available	Not available	Not available
Zone activations menu	Accesses the user menu section: Activations / Zones		**19**		ZoneBypass menu	Available	Not available	Not available	Not available	Not available
Voice memo	Accesses the User Menu section: Voice functions		**20**		Voice memo	Available	Not available	Not available	Not available	Not available

Shortcuts			on keypad			on codes		on reader	on keys	on event
description	function	parameter	n.	icon	string	via keypad	over-the-phone			
ON/OFF output menu	Accesses the user menu section: Outputs ON/OFF		21		Output control	Available	Not available	Not available	Not available	Not available
Enable/Disable answerphone	Accesses the user menu section: Activations / Answerphone		22		Enab.answer-phone	Available	Not available	Not available	Not available	Not available
Enable teleservice	Accesses the user menu section: Activations / Teleservice		23		Enab.teleser-vice	For future use	Not available	Not available	Not available	Not available
Enable codes	Accesses the user menu section: Activations / Codes		24		Enable codes	Available	Not available	Not available	Not available	Not available
Enable keys	Accesses the user menu section: Activations / Keys		25		Enable keys	Available	Not available	Not available	Not available	Not available
Enable timer	Accesses the user menu section: Activations / Timers		26		Enable timers	Available	Not available	Not available	Not available	Not available
Enable auto-arming	Accesses the user menu section: Activations / Auto-arming		27		Enab. auto-arm	Available	Not available	Not available	Not available	Not available
View events log	Accesses the user menu section: View / Events log		28		View events log	Available	Not available	Not available	Not available	Not available
View alarms log	Accesses the user menu section: View / Alarms log		29		View alarm log	Available	Not available	Not available	Not available	Not available
View faults log	Accesses the user menu section: View / Faults log		30		View faults log	Available	Not available	Not available	Not available	Not available
View arm/disarm operations	Accesses the user menu section: View / Arm/Disarm op.		31		View arm ops log	Available	Not available	Not available	Not available	Not available
View system status	Accesses the user menu section: View / System status		32		ViewSystemSta-tus	Available	Not available	Not available	Not available	Not available
View zone status	Accesses the user menu section: View / Zone status		33		View zone status	Available	Not available	Not available	Not available	Not available
Change PIN code	Accesses the user menu section: Change PIN		34		Change PIN	Available	Not available	Not available	Not available	Not available
Time/Date	Accesses the user menu section: Set date/time		35		Time/Date	Available	Not available	Not available	Not available	Not available
View faults	Accesses the user menu section: View / Faults ongoing		36		View faults	Available	Not available	Not available	Not available	Not available
Thermostat menu	Accesses the user menu section: Thermostat		37		Thermostat menu	Available	Not available	Not available	Not available	Not available
Panic	Activates a “Panic” event	which panic event	38		Panic	Available	Available	Available	Available	Not available
Zone bypass	Disable one of the configured zones	which zone	Not available			Not available	Not available	Not available	Not available	Available
Unbypass zone	Enable one of the configured zones	which zone	Not available			Not available	Not available	Not available	Not available	Available
Disable code	Disable one of the configured codes	which code	Not available			Not available	Not available	Not available	Not available	Available
Enable code	Enable one of the configured codes	which code	Not available			Not available	Not available	Not available	Not available	Available
Disable key	Disable one of the configured keys	which key	Not available			Not available	Not available	Not available	Not available	Available
Enable key	Enable one of the configured keys	which key	Not available			Not available	Not available	Not available	Not available	Available
Enable thermostat	Enable the thermostat of one of the keypads in the selected operating mode	Keypad which mode?	Not available			Not available	Not available	Not available	Not available	Available
Disable thermostat	Disable the thermostat of one of the keypads	Keypad	Not available			Not available	Not available	Not available	Not available	Available
Dimmer up	Increase the voltage value on a dimmer output by 5%	Output	Not available			Not available	Not available	Not available	Not available	Available
Dimmer down	Decrease the voltage on a dimmer output value by 5%	Output	Not available			Not available	Not available	Not available	Not available	Available

Appendix C Available Icons

The following Table shows the icons provided at default. The icons can be customized to suit the keypad shortcuts.

Icon number	Icon
1	
2	
3	
4	
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11	
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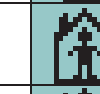
13	
14	
15	
16	
17	
18	

Icon number	Icon
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	

Icon number	Icon
37	
38	
39	
40	
41	
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47	
48	
49	
50	

Voice messages

Appendix D

The SmartLogos30M voice board provides 500 voice message slots, 291 of which are pre-recorded at factory. The messages are arranged in such way as to produce event-related voice calls which clearly describe the related event.

The following Table shows the message numbers and their purpose, together with the respective recording time.

Type	Number	Default message	Message duration (seconds)	
			High quality	Average quality
Available user-messages	1 – 100	''	169 (for all 100 messages)	271 (for all 100 messages)
Not available	101 - 165	''		
Arming scenarios	166	Scenario 1	2.5	4
	167	Scenario 2	2.5	4
	168	Scenario 3	2.5	4
	169	Scenario 4	2.5	4
	170	Scenario 5	2.5	4
	171	Scenario 6	2.5	4
	172	Scenario 7	2.5	4
	173	Scenario 8	2.5	4
	174	Scenario 9	2.5	4
	175	Scenario 10	2.5	4
	176	Scenario 11	2.5	4
	177	Scenario 12	2.5	4
	178	Scenario 13	2.5	4
	179	Scenario 14	2.5	4
	180	Scenario 15	2.5	4
	181	Scenario 16	2.5	4
	182	Scenario 17	2.5	4
	183	Scenario 18	2.5	4
	184	Scenario 19	2.5	4
	185	Scenario 20	2.5	4
	186	Scenario 21	2.5	4
	187	Scenario 22	2.5	4
	188	Scenario 23	2.5	4
	189	Scenario 24	2.5	4
	190	Scenario 25	2.5	4
	191	Scenario 26	2.5	4
	192	Scenario 27	2.5	4
	193	Scenario 28	2.5	4
	194	Scenario 29	2.5	4
	195	Scenario 30	2.5	4
Shortcuts	196	Armed in Away mode	2.5	4
	197	Stop alarm	2.5	4
	198	Stop call queue	2.5	4
	199	Delete memory	2.5	4
	200	Activate output	2.5	4
	201	Deactivate output	2.5	4
	202	Overtime request	2.5	4
	203	Request maintenance	2.5	4
	204	Voice guide	2.5	4
	205	Listen-in	2.5	4
	206	Intercom Call	2.5	4
	207	Arm/disarm menu	2.5	4
	208	Alarm management menu	2.5	4
	209	Voice functions	2.5	4
	210	Activations menu	2.5	4
	211	Nexus status	2.5	4
	212	System status	2.5	4
	213	Keypad settings	2.5	4
	214	Zone bypass menu	2.5	4
	215	Voice memo	2.5	4
	216	ON/OFF output menu	2.5	4
	217	Enable/Disable answerphone	2.5	4
	218	Enable teleservice	2.5	4
	219	Enable codes	2.5	4
	220	Enable keys	2.5	4
	221	Enable timers	2.5	4
	222	Enable auto-arming	2.5	4
	223	View events log	2.5	4
	224	View alarms log	2.5	4
	225	View faults log	2.5	4
	226	View arm/disarm operations	2.5	4
	227	View battery status	2.5	4
	228	View zone status	2.5	4
	229	Change PIN	2.5	4

Type	Number	Default message	Message duration (seconds)	
			High quality	Average quality
Zone Terminal	330	Zone 60	3.13	5
	331	Zone 61	3.13	5
	332	Zone 62	3.13	5
	333	Zone 63	3.13	5
	334	Zone 64	3.13	5
	335	Zone 65	3.13	5
	336	Zone 66	3.13	5
	337	Zone 67	3.13	5
	338	Zone 68	3.13	5
	339	Zone 69	3.13	5
	340	Zone 70	3.13	5
	341	Zone 71	3.13	5
	342	Zone 72	3.13	5
	343	Zone 73	3.13	5
	344	Zone 74	3.13	5
	345	Zone 75	3.13	5
	346	Zone 76	3.13	5
	347	Zone 77	3.13	5
	348	Zone 78	3.13	5
	349	Zone 79	3.13	5
	350	Zone 80	3.13	5
	351	Zone 81	3.13	5
	352	Zone 82	3.13	5
	353	Zone 83	3.13	5
	354	Zone 84	3.13	5
	355	Zone 85	3.13	5
	356	Zone 86	3.13	5
	357	Zone 87	3.13	5
	358	Zone 88	3.13	5
	359	Zone 89	3.13	5
	360	Zone 90	3.13	5
	361	Zone 91	3.13	5
	362	Zone 92	3.13	5
	363	Zone 93	3.13	5
	364	Zone 94	3.13	5
	365	Zone 95	3.13	5
	366	Zone 96	3.13	5
	367	Zone 97	3.13	5
	368	Zone 98	3.13	5
	369	Zone 99	3.13	5
	370	Zone 100	3.13	5
Partition	371	Partition 1	3.13	5
	372	Partition 2	3.13	5
	373	Partition 3	3.13	5
	374	Partition 4	3.13	5
	375	Partition 5	3.13	5
	376	Partition 6	3.13	5
	377	Partition 7	3.13	5
	378	Partition 8	3.13	5
	379	Partition 9	3.13	5
	380	Partition 10	3.13	5
	381	Partition 11	3.13	5
	382	Partition 12	3.13	5
	383	Partition 13	3.13	5
	384	Partition 14	3.13	5
	385	Partition 15	3.13	5
Codes	386	Code 1	2.5	4
	387	Code 2	2.5	4
	388	Code 3	2.5	4
	389	Code 4	2.5	4
	390	Code 5	2.5	4
	391	Code 6	2.5	4
	392	Code 7	2.5	4
	393	Code 8	2.5	4
	394	Code 9	2.5	4
	395	Code 10	2.5	4

Type	Number	Default message	Message duration (seconds)	
			High quality	Average quality
Shortcuts	230	Date/Time settings	2.5	4
	231	View faults	2.5	4
Not available	232 - 240	''		
Generic messages	241	Restoral	1.25	2
	242	To	0.63	1
	243	Press	1.25	2
	244	Location	6.25	10
	245	Zero	2.5	4
	246	One	2.5	4
	247	Two	2.5	4
	248	Three	2.5	4
	249	Four	2.5	4
	250	Five	2.5	4
	251	Six	2.5	4
	252	Seven	2.5	4
	253	Eight	2.5	4
	254	Nine	2.5	4
Partition status	255	Away mode	3.13	5
	256	Armed in Stay mode	3.13	5
	257	Instant mode	3.13	5
	258	Disarm	3.13	5
Menu	259	To go back to previous menu press *	3.13	5
Activation / Deactivation	260	To activate	1.88	3
	261	To deactivate	1.88	3
Type-in user-code PIN	262	Type-in user-code PIN followed by #	2.5	4
Outputs	263	Relay	2.5	4
	264	Output 1	2.5	4
	265	Output 2	2.5	4
Not available	266 - 270	''		
Zone Terminal	271	Zone 1	3.13	5
	272	Zone 2	3.13	5
	273	Zone 3	3.13	5
	274	Zone 4	3.13	5
	275	Zone 5	3.13	5
	276	Zone 6	3.13	5
	277	Zone 7	3.13	5
	278	Zone 8	3.13	5
	279	Zone 9	3.13	5
	280	Zone 10	3.13	5
	281	Zone 11	3.13	5
	282	Zone 12	3.13	5
	283	Zone 13	3.13	5
	284	Zone 14	3.13	5
	285	Zone 15	3.13	5
	286	Zone 16	3.13	5
	287	Zone 17	3.13	5
	288	Zone 18	3.13	5
	289	Zone 19	3.13	5
	290	Zone 20	3.13	5
	291	Zone 21	3.13	5
	292	Zone 22	3.13	5
	293	Zone 23	3.13	5
	294	Zone 24	3.13	5
	295	Zone 25	3.13	5
	296	Zone 26	3.13	5
	297	Zone 27	3.13	5
	298	Zone 28	3.13	5
	299	Zone 29	3.13	5
	300	Zone 30	3.13	5
	301	Zone 31	3.13	5
	302	Zone 32	3.13	5
	303	Zone 33	3.13	5
	304	Zone 34	3.13	5
	305	Zone 35	3.13	5
	306	Zone 36	3.13	5
	307	Zone 37	3.13	5
	308	Zone 38	3.13	5
	309	Zone 39	3.13	5
	310	Zone 40	3.13	5
	311	Zone 41	3.13	5
	312	Zone 42	3.13	5
	313	Zone 43	3.13	5
	314	Zone 44	3.13	5
	315	Zone 45	3.13	5
	316	Zone 46	3.13	5
	317	Zone 47	3.13	5
	318	Zone 48	3.13	5
	319	Zone 49	3.13	5
	320	Zone 50	3.13	5
	321	Zone 51	3.13	5
	322	Zone 52	3.13	5
	323	Zone 53	3.13	5
	324	Zone 54	3.13	5
	325	Zone 55	3.13	5
	326	Zone 56	3.13	5
	327	Zone 57	3.13	5
	328	Zone 58	3.13	5
	329	Zone 59	3.13	5
	330	Zone 60	3.13	5

Type	Number	Default message	Message duration (seconds)	
			High quality	Average quality
Keys	396	Key 1	2.5	4
	397	Key 2	2.5	4
	398	Key 3	2.5	4
	399	Key 4	2.5	4
	400	Key 5	2.5	4
	401	Key 6	2.5	4
	402	Key 7	2.5	4
	403	Key 8	2.5	4
	404	Key 9	2.5	4
	405	Key 10	2.5	4
Keypads	406	Keypad 1	2.5	4
	407	Keypad 2	2.5	4
	408	Keypad 3	2.5	4
	409	Keypad 4	2.5	4
	410	Keypad 5	2.5	4
Readers	411	Reader 1	2.5	4
	412	Reader 2	2.5	4
	413	Reader 3	2.5	4
	414	Reader 4	2.5	4
	415	Reader 5	2.5	4
Function keys Emergency	416	Fire	2.5	4
	417	Ambulance	2.5	4
	418	Police	2.5	4
Not available	419	''		
Event type	420	Zone alarm	2.5	4
	421	Terminal tamper	2.5	4
	422	Partition alarm	2.5	4
	423	Stay alarm	2.5	4
	424	Partition tamper	2.5	4
	425	Zone bypass	2.5	4
	426	Real time zone	2.5	4
	427	Partition not-ready-to-arm	2.5	4
	428	Away arm request	2.5	4
	429	Stay arm request	2.5	4
	430	Armed in Away mode	2.5	4
	431	Armed in Stay mode	2.5	4
	432	Reset partition	2.5	4
	433	Partition armed, leave partition	2.5	4
	434	Disarm partition	2.5	4
	435	Pre-arm alert	2.5	4
	436	Overtime request	2.5	4
	437	Welcome	2.5	4
	438	Forced arming	2.5	4
	439	Failed to arm	2.5	4
	440	Valid user-code	2.5	4
	441	Valid key	2.5	4
	442	Valid code at keypad	2.5	4
	443	Valid key at reader	2.5	4
	444	Valid user-code on partition	2.5	4
	445	Valid key on partition	2.5	4
	446	Failed call	2.5	4
	447	Timer activated	2.5	4
	448	Thermostat	2.5	4
	449	Scenario	2.5	4
	450	Programmable event	2.5	4
	451	Emergency	2.5	4
	452	Open-panel tamper	2.5	4
	453	Dislodged-panel tamper	2.5	4
	454	Zone fuse fault	2.5	4
	455	I-BUS fuse fault	2.5	4
	456	Battery fault	2.5	4
	457	Mains failure	2.5	4
	458	Expansion tamper	2.5	4
	459	Keypad Tamper	2.5	4
	460	Reader Tamper	2.5	4
	461	Sounder flasher tamper	2.5	4
	462	Nexus tamper	2.5	4
	463	Expansion Loss	2.5	4
	464	Keypad Loss	2.5	4
	465	Reader Loss	2.5	4
	466	Sounder/flasher loss	2.5	4
	467	Nexus loss	2.5	4
	468	Jamming	2.5	4
	469	Low battery wireless zone	2.5	4
	470	Wireless zone loss	2.5	4
	471	Valid Installer code	2.5	4
	472	Invalid code		
	473	False key		
	474	Nexus fault		
	475	Telephone line down		
	476	Periodic test event		
	477	Hard reset		
	478	Call queue full		
	479	Successful call		
	480	Start programming		
	481	Ongoing call		
	482	Failed to send message		
	483	Output fault		
	484	Low GSM credit		
Not available	485	''		
Voice memo slots	486 – 500	''	37.5 (for all 15 messages)	60 (for all 15 messages)

Screw Terminals

Appendix E

Each terminal on the Prime control panel and the peripherals (expansions and keypads) is identified by distinctive number (refer to “n.” column in the table below) that will be transcribed in the “CCC” programming field of the “CONTACT-ID” telephone protocol, in order to allow the precise localization of the event relating to zone or terminal.

In the case of double zones, the second zone will be identified by the number “500 + n.” (where “n.” stands for the number of the terminal).

n.	device	terminals
1	Control panel	T1
2		T2
3		T3
4		T4
5		T5
6		T6
7		T7
8		T8
9		T9
10		T10
11	Expansion 1	T1
12		T2
13		T3
14		T4
15		T5
16	Expansion 2	T1
17		T2
18		T3
19		T4
20		T5
21	Expansion 3	T1
22		T2
23		T3
24		T4
25		T5
26	Expansion 4	T1
27		T2
28		T3
29		T4
30		T5
31	Expansion 5	T1
32		T2
33		T3
34		T4
35		T5
36	Expansion 6	T1
37		T2
38		T3
39		T4
40		T5
41	Expansion 7	T1
42		T2
43		T3
44		T4
45		T5
46	Expansion 8	T1
47		T2
48		T3
49		T4
50		T5
51	Expansion 9	T1
52		T2
53		T3
54		T4
55		T5
56	Expansion 10	T1
57		T2
58		T3
59		T4
60		T5
61	Expansion 11	T1
62		T2
63		T3
64		T4
65		T5
66	Expansion 12	T1
67		T2
68		T3
69		T4
70		T5
71	Expansion 13	T1
72		T2
73		T3
74		T4
75		T5
76	Expansion 14	T1
77		T2
78		T3
79		T4
80		T5
81	Expansion 15	T1
82		T2
83		T3
84		T4
85		T5
86	Expansion 16	T1
87		T2
88		T3
89		T4
90		T5
91	Expansion 17	T1
92		T2
93		T3
94		T4
95		T5
96	Expansion 18	T1
97		T2
98		T3
99		T4
100		T5
101	Expansion 19	T1
102		T2
103		T3
104		T4
105		T5
106	Expansion 20	T1
107		T2
108		T3
109		T4
110		T5
111	Expansion 21	T1
112		T2
113		T3
114		T4
115		T5
116	Expansion 22	T1
117		T2
118		T3
119		T4
120		T5
121	Expansion 23	T1
122		T2
123		T3
124		T4
125		T5
126	Expansion 34	T1
127		T2
128		T3
129		T4
130		T5
131	Expansion 25	T1
132		T2
133		T3
134		T4
135		T5
136	Expansion 26	T1
137		T2
138		T3
139		T4
140		T5
141	Expansion 27	T1
142		T2
143		T3
144		T4
145		T5
146	Expansion 28	T1
147		T2
148		T3
149		T4
150		T5
151	Expansion 29	T1
152		T2
153		T3
154		T4
155		T5
156	Expansion 30	T1
157		T2
158		T3
159		T4
160		T5
161	Expansion 31	T1
162		T2
163		T3
164		T4
165		T5
166	Expansion 32	T1
167		T2
168		T3
169		T4
170		T5
171	Expansion 33	T1
172		T2
173		T3
174		T4
175		T5
176	Expansion 34	T1
177		T2
178		T3
179		T4
180		T5
181	Expansion 35	T1
182		T2
183		T3
184		T4
185		T5
186	Expansion 36	T1
187		T2
188		T3
189		T4
190		T5
191	Expansion 37	T1
192		T2
193		T3
194		T4
195		T5
196	Expansion 38	T1
197		T2
198		T3
199		T4
200		T5
201	Expansion 39	T1
202		T2
203		T3
204		T4
205		T5
206	Expansion 40	T1
207		T2
208		T3
209		T4
210		T5
211	Keypad 1	T1
212		T2
213	Keypad 2	T1
214		T2
215	Keypad 3	T1
216		T2
217	Keypad 4	T1
218		T2
219	Keypad 5	T1
220		T2
221	Keypad 6	T1
222		T2
223	Keypad 7	T1
224		T2
225	Keypad 8	T1
226		T2
227	Keypad 9	T1
228		T2
229	Keypad 10	T1
230		T2
231	Keypad 11	T1
232		T2
233	Keypad 12	T1
234		T2
235	Keypad 13	T1
236		T2
237	Keypad 14	T1
238		T2
239	Keypad 15	T1
240		T2

Appendix F Event type

Name		Occurs when...	Restores when ...	Number of events	Pulse events
Zone alarm	Zone alarm	A zone generates an alarm	A zone restores	One event for each zone	no
Terminal tamper	Terminal tamper	A terminal detects tamper (short-circuit or wire cutting)	A terminal restores	One event for each terminal	no
Partition alarm	Partition alarm	A 24h zone which belongs to the partition generates an alarm, or a zone which belongs to the partition generates an alarm during Away mode.	All the zones belonging to the partition restore (reset).	One event for each partition	no
Alarm partition armed in Stay mode	StayPartit.alarm	A zone which belongs to a partition armed in Stay or Instant mode, generates an alarm.	All the zones belonging to the partition restore (reset).	One event for each partition	no
Partition tamper	Partition tamper	A zone which belongs to the partition detects tamper (short-circuit or wire cutting).	All the zones belonging to the partition restore (reset).	One event for each partition	no
Zone bypass	Zone bypass	A zone is inhibited	A zone is enabled (switched On)	One event for each zone	no
Real time zone	Real-time zone	The electrical status of a zone switches from stand-by to alarm	The electrical status of a zone switches from alarm to stand-by	One event for each zone	no
		The event is independent of the zone type and the armed/disarmed status of the partitions.			
Partition not-ready-to-arm	Partit.not ready	A zone which belongs to the partition is not in stand-by status.	All the zones belonging to the partition are in standby status.	One event for each partition	no
Away arming request on partition	Away arm request	A request is made to arm the interior and perimeter zones of the partition	A request is made to disarm the partition	One event for each partition	Yes
Stay arming request on partition	Overtime request	A request is made to arm the partition in Stay mode (perimeter zones only) or in Instant mode	A request is made to disarm the partition	One event for each partition	Yes
Effective arming mode on partition	Partit.AwayArmed	The partition interior and perimeter zones have been armed effectively	The partition will be disarmed	One event for each partition	no
Partition armed in Away mode	Partit.StayArmed armed	The partition has been armed effectively in Stay or Instant mode	The partition will be disarmed	One event for each partition	no
Disarm partition	Disarm partition	The partition will be disarmed	The partition will be armed	One event for each partition	no
Reset partition memories	Partition reset	A request is made to reset the partition		One event for each partition	Yes
Partition exit time	Exit time	The partition exit time starts running	The partition exit time expires	One event for each partition	no
Partition entry time	Entry time	The partition entry time is running	The partition entry time expires	One event for each partition	no
Partition pre-arm time	Pre-arm time	The partition Pre-arm time is running	The partition Pre-arm time expires	One event for each partition	no
Overtime request on partition	Overtime request	A request for overtime relating to the partition is made		One event for each partition	Yes
Partition bell	Chime	A chime zone belonging to the partition is violated		One event for each partition	Yes
Forced arming on partition	Forced arming	At the time of an arming command, relating to one or more partitions, there are open zones on the partition/partitions involved, or there are other conditions present which lower system security, nonetheless, the user arms the system.		One event for each partition	Yes
Partition failed to arm	Failed to arm	If partition arming is requested whilst: there is at least one open/violated zone and the option “NoArm.ZonesOpen” is enabled or when one or more of the events described in “LossTamp.ongoing” is present (refer to “FaultForNotReady”, *paragraph 4-5 Compliance 50131 grade 3*).		One event for each partition	Yes
Recognized valid user code	Valid code	A user-code PIN entered at a keypad is recognized as valid		One event for each code	Yes
Valid key	Valid key	A key used at a reader is recognized as valid on the reader		One event for each key	Yes

Name		Occurs when...	Restores when ...	Number of events	Pulse events
Valid code at keypad	Valid Code AtKeyp.	An entered user-code PIN is recognized as valid on the keypad		One event for each keypad	Yes
Valid key at reader	ValidKeyAtReader	A key used at a reader is recognized as valid on the reader		One event for each reader	Yes
Valid user-code on partition	Partition code	An entered user-code PIN is recognized as valid on the partition		One event for each partition	Yes
Valid key on partition	Partition key	A key used at a reader is recognized as valid on the partition		One event for each partition	Yes
Failed call	Failed call	All attempts to call a specific telephone number have failed	One call to the phone number has been successful	One event for each contact telephone number	no
Timer activated	Timer activated	The timer is enabled (On)	The timer is disabled (Off)	One event for each timer	no
Thermostat on keypad	Thermostat ON	The activation conditions set for the keypad thermostat occur.	The deactivation conditions set for the keypad thermostat occur.	One event for each keypad	no
Activate scenario	Scenario ON	The status of all the partitions corresponds exactly to the pre-set scenario.	The status of all least one of the partitions does not correspond to the pre-set scenario.	One event for each scenario	no
Programmable event	ProgrammableEvt	See *paragraph 12-5 Programmable events*			no
Emergency button	Emergency button	One of the emergency-buttons is pressed		One event for each emergency-button	Yes
Panic	Panic Panic	The “Panic” shortcut has been activated.		15	Yes
Periodic event	Periodic event	The Periodic Event occurs		4	Yes
Open-panel tamper	Control panel open	The control-panel enclosure is removed	The front of the control-panel is replaced	1	no
Dislodged-panel tamper	Dislodged panel	The control-panel enclosure is detached from the wall	The control-panel enclosure is reattached to the wall	1	no
Zone fuse fault	Zone fuse fault	The zone protection fuse on the control panel is not operational (blown)	The zone protection fuse on the control panel restores	1	no
I-BUS fuse fault	IBUS fuse fault	The I-BUS protection fuse is not operational (blown)	The I-BUS protection fuse restores	1	no
Battery fault	Low battery	The backup battery is low (voltage below 10.4V)	The backup battery is charged (voltage above 11.4V)	1	no
Mains failure	Mains failure	The primary power supply 230V~ fails	The primary power supply 230V~ is restored	1	no
Expansion tamper	Expansion tamper	An expansion board signals tamper conditions	Tamper conditions clear on all the system expansion boards	1	no
Keypad Tamper	Keypad tamper	A keypad signals tamper conditions	Tamper conditions clear on all the system keypads	1	no
Reader Tamper	Reader tamper	A reader signals tamper conditions	Tamper conditions clear on all the system readers	1	no
Sounder flasher tamper	Sound.flash.Tamp	Tamper conditions on a sounder/flasher on the BUS	All the sounder/flashers on the BUS reset	1	no
Nexus tamper	Nexus tamper	The GSM dialer Nexus signals tamper	Tamper conditions clear on the Nexus	1	no
LIVPWR100 tamper	Tamp. LIVPWR100	For future use			
Video detector tamper	VideoSens.Tamper	For future use			
I/O expansion loss	Expansion loss	An expansion board cannot be found on the BUS	All expansion boards can be found on the BUS	1	no
Keypad Loss	Keypad loss	A keypad cannot be found on the BUS	All keypads can be found on the BUS	1	no
Reader Loss	Reader loss	A reader cannot be found on the BUS	All readers can be found on the BUS	1	no
Sounder/flasher loss	Sound.flash.Loss	A sounder/flasher cannot be found on the BUS	All sounder/flashers can be found on the BUS	1	no
Nexus loss	Nexus loss	The control panel is unable to communicate the Nexus 100	Communication between the control panel and the Nexus restores	1	no
LIVPWR100 loss	Nexus LIVPWR100	For future use			
Video detector loss	VideoSensor loss	For future use			
Jamming	Jamming	Wireless interference detected	Wireless interference cleared	1	no
Low battery on wireless zone	Low battery WLS	The battery of a least one wireless detector is running low	All the wireless detectors are running with sufficient power	1	no
Wireless zone loss	WLS zone loss	Loss of at least one wireless detector has been signalled (supervisory time expired)	All the wireless detector are present	1	no
Valid Installer code	Installer code	An Installer PIN entered at a keypad is recognized as valid		1	Yes
Invalid code	Invalid code	An invalid code PIN is entered at a keypad		1	Yes
False key	False key	An invalid key is used at a reader		1	Yes
Nexus fault	Nexus fault	The Nexus device signals a fault (refer to the <User manual)	Fault conditions clear on the Nexus	1	no
Telephone line down	Tel. line down	The land line is not working	The land line restores	1	no
Hard reset	Hard reset	The control panel re-initializes. The system clock may be wrong or not working properly.		1	Yes
Call queue full	Call queue full	There are no more slots left in the outgoing call queue		1	Yes

Name		Occurs when...	Restores when ...	Number of events	Pulse events
Valid code at keypad	Valid Code AtKeyp.	An entered user-code PIN is recognized as valid on the keypad		One event for each keypad	Yes
Valid key at reader	ValidKeyAtReader	A key used at a reader is recognized as valid on the reader		One event for each reader	Yes
Valid user-code on partition	Partition code	An entered user-code PIN is recognized as valid on the partition		One event for each partition	Yes
Valid key on partition	Partition key	A key used at a reader is recognized as valid on the partition		One event for each partition	Yes
Failed call	Failed call	All attempts to call a specific telephone number have failed	One call to the phone number has been successful	One event for each contact telephone number	no
Timer activated	Timer activated	The timer is enabled (On)	The timer is disabled (Off)	One event for each timer	no
Thermostat on keypad	Thermostat ON	The activation conditions set for the keypad thermostat occur.	The deactivation conditions set for the keypad thermostat occur.	One event for each keypad	no
Activate scenario	Scenario ON	The status of all the partitions corresponds exactly to the pre-set scenario.	The status of all least one of the partitions does not correspond to the pre-set scenario.	One event for each scenario	no
Programmable event	ProgrammableEvt	See *paragraph 12-5 Programmable events*			no
Emergency button	Emergency button	One of the emergency-buttons is pressed		One event for each emergency-button	Yes
Panic	Panic Panic	The “Panic” shortcut has been activated.		15	Yes
Periodic event	Periodic event	The Periodic Event occurs		4	Yes
Open-panel tamper	Control panel open	The control-panel enclosure is removed	The front of the control-panel is replaced	1	no
Dislodged-panel tamper	Dislodged panel	The control-panel enclosure is detached from the wall	The control-panel enclosure is reattached to the wall	1	no
Zone fuse fault	Zone fuse fault	The zone protection fuse on the control panel is not operational (blown)	The zone protection fuse on the control panel restores	1	no
I-BUS fuse fault	IBUS fuse fault	The I-BUS protection fuse is not operational (blown)	The I-BUS protection fuse restores	1	no
Battery fault	Low battery	The backup battery is low (voltage below 10.4V)	The backup battery is charged (voltage above 11.4V)	1	no
Mains failure	Mains failure	The primary power supply 230V~ fails	The primary power supply 230V~ is restored	1	no
Expansion tamper	Expansion tamper	An expansion board signals tamper conditions	Tamper conditions clear on all the system expansion boards	1	no
Keypad Tamper	Keypad tamper	A keypad signals tamper conditions	Tamper conditions clear on all the system keypads	1	no
Reader Tamper	Reader tamper	A reader signals tamper conditions	Tamper conditions clear on all the system readers	1	no
Sounder flasher tamper	Sound.flash.Tamp	Tamper conditions on a sounder/flasher on the BUS	All the sounder/flashers on the BUS reset	1	no
Nexus tamper	Nexus tamper	The GSM dialer Nexus signals tamper	Tamper conditions clear on the Nexus	1	no
LIVPWR100 tamper	Tamp. LIVPWR100	For future use			
Video detector tamper	VideoSens.Tamper	For future use			
I/O expansion loss	Expansion loss	An expansion board cannot be found on the BUS	All expansion boards can be found on the BUS	1	no
Keypad Loss	Keypad loss	A keypad cannot be found on the BUS	All keypads can be found on the BUS	1	no
Reader Loss	Reader loss	A reader cannot be found on the BUS	All readers can be found on the BUS	1	no
Sounder/flasher loss	Sound.flash.Loss	A sounder/flasher cannot be found on the BUS	All sounder/flashers can be found on the BUS	1	no
Nexus loss	Nexus loss	The control panel is unable to communicate the Nexus 100	Communication between the control panel and the Nexus restores	1	no
LIVPWR100 loss	Nexus LIVPWR100	For future use			
Video detector loss	VideoSensor loss	For future use			
Jamming	Jamming	Wireless interference detected	Wireless interference cleared	1	no
Low battery on wireless zone	Low battery WLS	The battery of a least one wireless detector is running low	All the wireless detectors are running with sufficient power	1	no
Wireless zone loss	WLS zone loss	Loss of at least one wireless detector has been signalled (supervisory time expired)	All the wireless detector are present	1	no
Valid Installer code	Installer code	An Installer PIN entered at a keypad is recognized as valid		1	Yes
Invalid code	Invalid code	An invalid code PIN is entered at a keypad		1	Yes
False key	False key	An invalid key is used at a reader		1	Yes
Nexus fault	Nexus fault	The Nexus device signals a fault (refer to the <User manual)	Fault conditions clear on the Nexus	1	no
Telephone line down	Tel. line down	The land line is not working	The land line restores	1	no
Hard reset	Hard reset	The control panel re-initializes. The system clock may be wrong or not working properly.		1	Yes
Call queue full	Call queue full	There are no more slots left in the outgoing call queue		1	Yes

Name		Occurs when...	Restores when ...	Number of events	Pulse events
Valid code at keypad	Valid Code AtKeyp.	An entered user-code PIN is recognized as valid on the keypad		One event for each keypad	Yes
Valid key at reader	ValidKeyAtReader	A key used at a reader is recognized as valid on the reader		One event for each reader	Yes
Valid user-code on partition	Partition code	An entered user-code PIN is recognized as valid on the partition		One event for each partition	Yes
Valid key on partition	Partition key	A key used at a reader is recognized as valid on the partition		One event for each partition	Yes
Failed call	Failed call	All attempts to call a specific telephone number have failed	One call to the phone number has been successful	One event for each contact telephone number	no
Timer activated	Timer activated	The timer is enabled (On)	The timer is disabled (Off)	One event for each timer	no
Thermostat on keypad	Thermostat ON	The activation conditions set for the keypad thermostat occur.	The deactivation conditions set for the keypad thermostat occur.	One event for each keypad	no
Activate scenario	Scenario ON	The status of all the partitions corresponds exactly to the pre-set scenario.	The status of all least one of the partitions does not correspond to the pre-set scenario.	One event for each scenario	no
Programmable event	ProgrammableEvt	See *paragraph 12-5 Programmable events*			no
Emergency button	Emergency button	One of the emergency-buttons is pressed		One event for each emergency-button	Yes
Panic	Panic Panic	The “Panic” shortcut has been activated.		15	Yes
Periodic event	Periodic event	The Periodic Event occurs		4	Yes
Open-panel tamper	Control panel open	The control-panel enclosure is removed	The front of the control-panel is replaced	1	no
Dislodged-panel tamper	Dislodged panel	The control-panel enclosure is detached from the wall	The control-panel enclosure is reattached to the wall	1	no
Zone fuse fault	Zone fuse fault	The zone protection fuse on the control panel is not operational (blown)	The zone protection fuse on the control panel restores	1	no
I-BUS fuse fault	IBUS fuse fault	The I-BUS protection fuse is not operational (blown)	The I-BUS protection fuse restores	1	no
Battery fault	Low battery	The backup battery is low (voltage below 10.4V)	The backup battery is charged (voltage above 11.4V)	1	no
Mains failure	Mains failure	The primary power supply 230V~ fails	The primary power supply 230V~ is restored	1	no
Expansion tamper	Expansion tamper	An expansion board signals tamper conditions	Tamper conditions clear on all the system expansion boards	1	no
Keypad Tamper	Keypad tamper	A keypad signals tamper conditions	Tamper conditions clear on all the system keypads	1	no
Reader Tamper	Reader tamper	A reader signals tamper conditions	Tamper conditions clear on all the system readers	1	no
Sounder flasher tamper	Sound.flash.Tamp	Tamper conditions on a sounder/flasher on the BUS	All the sounder/flashers on the BUS reset	1	no
Nexus tamper	Nexus tamper	The GSM dialer Nexus signals tamper	Tamper conditions clear on the Nexus	1	no
LIVPWR100 tamper	Tamp. LIVPWR100	For future use			
Video detector tamper	VideoSens.Tamper	For future use			
I/O expansion loss	Expansion loss	An expansion board cannot be found on the BUS	All expansion boards can be found on the BUS	1	no
Keypad Loss	Keypad loss	A keypad cannot be found on the BUS	All keypads can be found on the BUS	1	no
Reader Loss	Reader loss	A reader cannot be found on the BUS	All readers can be found on the BUS	1	no
Sounder/flasher loss	Sound.flash.Loss	A sounder/flasher cannot be found on the BUS	All sounder/flashers can be found on the BUS	1	no
Nexus loss	Nexus loss	The control panel is unable to communicate the Nexus 100	Communication between the control panel and the Nexus restores	1	no
LIVPWR100 loss	Nexus LIVPWR100	For future use			
Video detector loss	VideoSensor loss	For future use			
Jamming	Jamming	Wireless interference detected	Wireless interference cleared	1	no
Low battery on wireless zone	Low battery WLS	The battery of a least one wireless detector is running low	All the wireless detectors are running with sufficient power	1	no
Wireless zone loss	WLS zone loss	Loss of at least one wireless detector has been signalled (supervisory time expired)	All the wireless detector are present	1	no
Valid Installer code	Installer code	An Installer PIN entered at a keypad is recognized as valid		1	Yes
Invalid code	Invalid code	An invalid code PIN is entered at a keypad		1	Yes
False key	False key	An invalid key is used at a reader		1	Yes
Nexus fault	Nexus fault	The Nexus device signals a fault (refer to the <User manual)	Fault conditions clear on the Nexus	1	no
Telephone line down	Tel. line down	The land line is not working	The land line restores	1	no
Hard reset	Hard reset	The control panel re-initializes. The system clock may be wrong or not working properly.		1	Yes
Call queue full	Call queue full	There are no more slots left in the outgoing call queue		1	Yes

Name		Occurs when...	Restores when ...	Number of events	Pulse events
Valid code at keypad	Valid Code AtKeyp.	An entered user-code PIN is recognized as valid on the keypad		One event for each keypad	Yes
Valid key at reader	ValidKeyAtReader	A key used at a reader is recognized as valid on the reader		One event for each reader	Yes
Valid user-code on partition	Partition code	An entered user-code PIN is recognized as valid on the partition		One event for each partition	Yes
Valid key on partition	Partition key	A key used at a reader is recognized as valid on the partition		One event for each partition	Yes
Failed call	Failed call	All attempts to call a specific telephone number have failed	One call to the phone number has been successful	One event for each contact telephone number	no
Timer activated	Timer activated	The timer is enabled (On)	The timer is disabled (Off)	One event for each timer	no
Thermostat on keypad	Thermostat ON	The activation conditions set for the keypad thermostat occur.	The deactivation conditions set for the keypad thermostat occur.	One event for each keypad	no
Activate scenario	Scenario ON	The status of all the partitions corresponds exactly to the pre-set scenario.	The status of all least one of the partitions does not correspond to the pre-set scenario.	One event for each scenario	no
Programmable event	ProgrammableEvt	See *paragraph 12-5 Programmable events*			no
Emergency button	Emergency button	One of the emergency-buttons is pressed		One event for each emergency-button	Yes
Panic	Panic Panic	The “Panic” shortcut has been activated.		15	Yes
Periodic event	Periodic event	The Periodic Event occurs		4	Yes
Open-panel tamper	Control panel open	The control-panel enclosure is removed	The front of the control-panel is replaced	1	no
Dislodged-panel tamper	Dislodged panel	The control-panel enclosure is detached from the wall	The control-panel enclosure is reattached to the wall	1	no
Zone fuse fault	Zone fuse fault	The zone protection fuse on the control panel is not operational (blown)	The zone protection fuse on the control panel restores	1	no
I-BUS fuse fault	IBUS fuse fault	The I-BUS protection fuse is not operational (blown)	The I-BUS protection fuse restores	1	no
Battery fault	Low battery	The backup battery is low (voltage below 10.4V)	The backup battery is charged (voltage above 11.4V)	1	no
Mains failure	Mains failure	The primary power supply 230V~ fails	The primary power supply 230V~ is restored	1	no
Expansion tamper	Expansion tamper	An expansion board signals tamper conditions	Tamper conditions clear on all the system expansion boards	1	no
Keypad Tamper	Keypad tamper	A keypad signals tamper conditions	Tamper conditions clear on all the system keypads	1	no
Reader Tamper	Reader tamper	A reader signals tamper conditions	Tamper conditions clear on all the system readers	1	no
Sounder flasher tamper	Sound.flash.Tamp	Tamper conditions on a sounder/flasher on the BUS	All the sounder/flashers on the BUS reset	1	no
Nexus tamper	Nexus tamper	The GSM dialer Nexus signals tamper	Tamper conditions clear on the Nexus	1	no
LIVPWR100 tamper	Tamp. LIVPWR100	For future use			
Video detector tamper	VideoSens.Tamper	For future use			
I/O expansion loss	Expansion loss	An expansion board cannot be found on the BUS	All expansion boards can be found on the BUS	1	no
Keypad Loss	Keypad loss	A keypad cannot be found on the BUS	All keypads can be found on the BUS	1	no
Reader Loss	Reader loss	A reader cannot be found on the BUS	All readers can be found on the BUS	1	no
Sounder/flasher loss	Sound.flash.Loss	A sounder/flasher cannot be found on the BUS	All sounder/flashers can be found on the BUS	1	no
Nexus loss	Nexus loss	The control panel is unable to communicate the Nexus 100	Communication between the control panel and the Nexus restores	1	no
LIVPWR100 loss	Nexus LIVPWR100	For future use			
Video detector loss	VideoSensor loss	For future use			
Jamming	Jamming	Wireless interference detected	Wireless interference cleared	1	no
Low battery on wireless zone	Low battery WLS	The battery of a least one wireless detector is running low	All the wireless detectors are running with sufficient power	1	no
Wireless zone loss	WLS zone loss	Loss of at least one wireless detector has been signalled (supervisory time expired)	All the wireless detector are present	1	no
Valid Installer code	Installer code	An Installer PIN entered at a keypad is recognized as valid		1	Yes
Invalid code	Invalid code	An invalid code PIN is entered at a keypad		1	Yes
False key	False key	An invalid key is used at a reader		1	Yes
Nexus fault	Nexus fault	The Nexus device signals a fault (refer to the <User manual)	Fault conditions clear on the Nexus	1	no
Telephone line down	Tel. line down	The land line is not working	The land line restores	1	no
Hard reset	Hard reset	The control panel re-initializes. The system clock may be wrong or not working properly.		1	Yes
Call queue full	Call queue full	There are no more slots left in the outgoing call queue		1	Yes

Name		Occurs when...	Restores when ...	Number of events	Pulse events
Successful call	Successful call	The call is answered		1	Yes
Input undergoing programming	Programming	Access to system programming is authorized	End of system programming	1	no
Ongoing call	Ongoing call	A call is sent	A call ends	1	no
SMS message not delivered	SMSMessageFailed	Nexus failed to send SMS message		1	Yes
Output fault	Output fault	An output fails to switch status as commanded		1	Yes
Low credit	Low credit	The credit remaining on the SIM card inserted in the Nexus is below the minimum credit threshold.	The remaining credit is above the minimum credit threshold.	1	no
Date and time change	Time modified	There is a change in the date and time. This event will be recorded together with the date/time before the change.	There is a change in the date and time. This event will be recorded together with the date/time after the change.	1	no
Resistance internal battery	Int. Resistance	The internal resistance of the battery has exceeded the $R_{i\ max}$ value.	The internal resistance of the battery returned to below the $R_{i\ max}$ value.	1	no
Battery short-circuit	Battery shorted	A short-circuit condition has been detected on the battery connection terminals	The short-circuit condition is no longer present	1	no
Battery disconnection	Battery disconn.	The backup battery is disconnected	The backup battery is connected	1	no
Power-supply overload	PwSupplyOverload	Output overload is detected on the power-supply unit	The electrical load returns below the allowed limit	1	no
Overheating on power-supply unit	PwSupply Overheat	The temperature of the power-supply unit has exceeded the allowed limit	The temperature of the power-supply unit is normal	1	no
Ground fault	Ground fault	Leakage to ground is present	The leakage to ground condition is no longer detected	1	no
Overvoltage output "x"	Overvoltage ?x?	A voltage of over 14.5V has been detected on terminal "**+AUX**" corresponding to number "x" on the motherboard.	The normal voltage on the terminal has been restored.	one for each output "**+AUX**" of the motherboard	no
Overvoltage BUS	Overvolt. BUS	A voltage of over 14.5V has been detected on I-BUS terminal "+" on the motherboard.	The normal voltage on the terminal has been restored.	1	no
Low voltage output "x"	Low voltage "x"	A voltage below 9.8V has been detected on terminal "**+AUX**" corresponding to number "x" on the motherboard.	The normal voltage on the terminal has been restored.	one for each output "**+AUX**" of the motherboard	no
Low voltage output BUS	Undervoltage BUS	A voltage below 9.8V has been detected on I-BUS terminal "**+**" on the motherboard.	The normal voltage on the terminal has been restored.	1	no
Short-circuit output "x"	Short circuit ?x?	A short-circuit has been detected on terminal "**+AUX**" corresponding to number "x" on the LIVPWR100 board.	The short-circuit is no longer present.	one for each output "**+AUX**" of the motherboard	no
Short-circuit output BUS	Short circuit BUS	A short-circuit has been detected on I-BUS terminal "**+**" on the motherboard.	The short-circuit is no longer present.	1	no
Overload output "x"	Overload ?x?	A load of over 1.5A has been detected on terminal "**+AUX**" corresponding to number "x" on the motherboard.	The terminal restores to normal.	one for each output "**+AUX**" of the motherboard	no
Overload output BUS	Overload BUS	A load of over 3.5A has been detected on I-BUS terminal "**+**" on the motherboard.	The terminal restores to normal.	1	no
Failed communication with power-supply unit	NoCommunPwSupply	Communication between the power supply unit and the control panel has broken down.	Communication between the power supply unit and the control panel restores.	1	no
Telephone call on Number 1 in progress	Tel. on number 1	A call has been sent to phone number 1	The call has ended (even in the event of negative outcome)	1	no
Telephone call on Number 15 in progress	Tel.on number 15	A call has been sent to phone number 15	The call has ended (even in the event of negative outcome)	1	no
Data synchronization between control panel and IP2RX	Sync.data IP2RX	For future use			
IP connection lost	GPRS conn. lost	The IP connectivity test is enabled and the test result in negative (failed).	A connection attempt has been successful.	1	no
GPRS connection lost	GPRS conn. lost	Nexus has detected GPRS connectivity trouble.	The GPRS connectivity is restored.	1	no
Dust in smoke detector chamber	Detector dusty	The smoke chamber of at least one of the Air2-FD100 smoke detectors is contaminated by dirt or dust. Refer to the instructions supplied with the detector for information regarding the respective threshold.	All smoke sensors have stopped signalling the presence of dust.	1	no
General alarm	Alarm	Any one of the zones has generated an alarm signal.	All the zones have reset the alarm signal.	1	no
General tamper	Tamper	Any one of the zones has generated a tamper signal.	All the zones have reset the tamper signal.	1	no

Appendix G Combination of outputs triggered by events

This appendix explains the behaviour of the outputs programmed in the “Outputs” and “Other outputs” parameters of each event together with the activation and deactivation modes (“Tone types” parameter) of the sounder/flashers on the BUS.

Tabella G-1: Output typology

Symbol / Initials	Description
TM	Output on terminal/Relay/OC1/OC2 - monostable
TB	Output on terminal/Relay/OC1/OC2 - bistable
SM	Sounder/flasher output with limited flasher time
SB	Sounder/flasher output with unlimited flasher time

Tabella G-2: Functioning and deactivation of the outputs

Symbol / Initials	Description
A	These outputs will deactivate if a Stop alarm, Reset partition or Disarm operation is carried out while the monostable time of the main output is running.
B	These outputs will deactivate only when the event clears after expiry of the monostable time of the main output.
C	These outputs, due to the continuous flasher function, will not deactivate automatically. After the expiry of the monostable time on the main output, to switch off the SB flashers on the alarm signalling devices, it is necessary to: • trigger an event which applies a Stop pattern to the SB flashers • reset the partition
D	These outputs will deactivate only when the event clears.
E	These outputs will deactivate if, when an event is active, a Stop alarm operation, reset or disarm partition command operation is carried out.
F	These outputs, due to the continuous flasher function, will not deactivate automatically. In order to deactivate the SB flashers of the device on termination of the event, you must: • trigger an event which applies a Stop pattern to the SB flashers • reset the partition
G	These outputs will deactivate when the respective monostable time expires

Tabella G-3: Output combinations

Event groups	Principal output				Other outputs			
	TM	**TB**	**SM**	**SB**	**TM**	**TB**	**SM**	**SB**
Zone Alarm terminal tamper partition alarm partition tamper	**A G**				**A G**	**A B**	**A G**	**A C**
		D E			**E G**	**D G**	**E G**	**F**
			A G		**A G**	**A B**	**A G**	**A C**
				F	**E G**	**D G**	**E G**	**F**
Control panel open Dislodged panel Expansion tamper/loss Keypad tamper/loss Reader tamper/loss Sounder/flasher tamper/loss Jamming Wireless zone loss Telephone line down	**A G**				**A G**	**A D**	**A G**	**A C**
		D E			**E G**	**D G**	**E G**	**C**
			A G		**A G**	**A B**	**A G**	**A C**
				F	**E G**	**D G**	**E G**	**C**
other events	**G**				**G**	**B**	**G**	**C**
		D			**G**	**D**	**G**	**F**
			G		**G**	**B**	**G**	**C**
				F	**G**	**C**	**G**	**C**

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