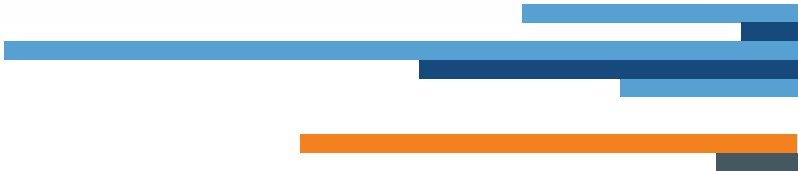




SmartLeague
Programming software for INIM Electronics
fire and intrusion systems
Installation and configuring manual



GameOver

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ABOUT THIS MANUAL

DCMIINEOSLEAGUE **MANUAL CODE**
3.20 **REVISION**

Terminology **0-1**

Refer to the main supervisory unit and any constituent parts of the security system INIM Electronics s.r.l.

CONTROL PANEL, SYSTEM, DEVICE

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

LEFT, RIGHT, BEHIND, ABOVE, BELOW

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.

QUALIFIED PERSONNEL

Click on a specific item on the interface (dropdown box, 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**

Following are the graphic conventions used in this manual.

Conventions	Example	Description
Text in italics	Refer to <i>paragraph 0-2 Graphic conventions</i>	Indicates the title of a chapter, section, paragraph, table or figure in this manual or other published reference.
Text in boldface	menu ? , About	Indicate a section header, button or software option
<text>	<User code>	Editable field

The "Note" sections contain important information relating to the text.

Note

Installation and configuration manual **0-3**

It is the installer's responsibility to read carefully through this manual in order to obtain full understanding of all the functions and features of the SmartLeague software program. In order to ensure the full operating capacity of the system, the installer must adhere to all the manufacturer's guidelines and, moreover, respect all the warnings relating to the active and passive security devices of the system.

Chapter 1

GENERAL INFORMATION

Manufacturer's details 1-1

Manufacturer: INIM ELECTRONICS s.r.l.
 Production plant: Via Fosso Antico - Centobuchi
 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.

Description of the software 1-2

SmartLeague is a packet of applications for the programming and management of INIM products.

The applications contained in the packet allow management of fire detection systems from the SmartLine, SmartLight and SmartLoop ranges. The software package also contains applications for the management of INIM's SmartLinkAdv and SmartLiving intrusion control systems.

Each SmartLeague application is distinct, however, all applications share the same operational structure and interface methods.

SmartLeague manages connections with the control panel via RS232, USB, TCP/IP, GPRS or PSTN and thus also allows remote maintenance work through the Internet.

SmartLeague provides programming and diagnostic fault-finding functions (device tests, device diagnostics and report printouts in accordance with UNI11224).

The SmartLeague graphic interface allows operators to interact with the control panel, identify cable faults, update connected-device configurations, change device addresses and view function parameters.

Additionally, the software provides system monitoring functions allow real-time viewing of the loop devices, zones and timers, etc.

The operator interacts with the system in real-time and therefore can control the status of inputs, activate outputs and perform arm, disarm and bypass operations, etc.

All of this is achieved through the command functions. These functions allow the operator to work on the monitored systems via map icons which represent the system objects, or by means of preset buttons defined during the configuration phase.

Each solution is made up of an installation structure and the respective programming parameters. Each solution is dedicated to a specific type of apparatus and has its own programming interface. In this way, you can compare different solutions and even keep two solutions open, one real and one for test purposes (in order to verify the effects of programming).

A solution can be created or changed even without being connected to the apparatus. For example, you can plan the layout of an installation or set the options/parameters at your office and download the settings to the system at a later time.

SmartLeague allows you to create and manage a database containing the programming data, maintenance details and events history of all the supervised installations.

Each new solution can be saved for future maintenance purposes and/or used as a "model" for other installations. The SmartLeague database allows you to retrieve stored

FUNCTIONS

COMMANDS

SOLUTIONS

DATABASE

solutions and also import solutions by means of xml files, and thus allows you to transfer files from one computer to another.

Minimum requirements and technical characteristics	
Hardware	<ul style="list-style-type: none"> • Pentium 4 Processors (3.2 GHz) • 2 GB Ram • Voice board
Operative system	<ul style="list-style-type: none"> • Windows XP, XP 64 • Windows Vista, Vista 64 • Windows Seven, Seven 64 • Windows 8, 8 64 • Windows 8.1, 8.1 64 • Windows 10, 10 64
Required hard disk space	500 MB
Minimum video resolution	800 x 600
Connection interface	<ul style="list-style-type: none"> • RS232 • USB • Ethernet • PSTN • GPRS
Multilingual	Yes

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Software requirements 1-3

SmartLeague requires .Net Framework 4.00 in order to run properly.

This component is typically present on PCs with Windows Seven (32 or 64 bit), Windows 8.0 (32 or 64 bit), Windows 8.1 (32 or 64 bit) and Windows 10 (32 or 64 bit) operating systems.

To understand whether Framework 4.00 is installed, simply install and run SmartLeague. If Framework 4.00 is not present, the operating system will generate an error message.

In order to install Framework 4.00, you must connect to the Microsoft website and download and install the file named dotNetFx40_Full_x86_x64.exe. Service pack 3 (SP3) is required for Windows XP series operating systems.

Some versions of Windows XP 32 require that Windows Installer 3.1 and the Windows Imaging (WIC) component are already installed.

Installation of .NET Framework requires Microsoft Internet Explorer 5.01 or higher.

.NET FRAMEWORK

WINDOWS INSTALLER

MICROSOFT INTERNET EXPLORER

Software access 1-4

SmartLeague allows you to define access to the software program through easy to configure user enablements.

The **Settings** section allows you to activate user access by simply enabling the “Enable access control” option, in the **Application data, Various** section. The **Access management** section allows you to create user profiles, specify the groups each user belongs to and indicate their enablements.

You (the installer) must program the enablements and establish access to the software. The defined enablements establish access to the programming and viewing of INIM installations. Therefore, the enablements determine which sections of the software users are allowed to operate.

The sections allow operators to:

- Create or change user groups
- Save the code PIN of the installer of the SmartLiving system
- Access SmartLinkAdvanced or SmartLiving intrusion-control systems
- Access SmartLoop, SmartLight or SmartLine fire-control systems

A group is a number of users with the same enablements.

ENABLEMENTS

GROUPS


In addition to the group name, you must also specify the enablements defined during the group configuration phase. A window will open where you can activate/deactivate each enablement by simply clicking on the respective check boxes.

A group of "Administrators" is defined at default with properties that cannot be changed or deleted. The "Administrators" have full access to the software and all of its sections.

Users are those persons who can access, in full or in part, the software after entering their passwords. The enablements of a user depend on the group they belong to.

USER

When creating a user's profile, in addition the name which identifies the user, you must also indicate the user's password and the group they belong to. This data must be edited in the window that opens for the creation/modification of a user's profile. You can enable/disable a user, regardless of their configured profile, by clicking on **Enable** check box.

To change user, simply close the ongoing phase and log in again using new credentials, close the software application and restart or press the  button on the top right of the window.

The "Admin" user is defined at default and belongs to the "Administrator" group. The "Admin" user properties cannot be changed or deleted.

DEFAULT

The following access data is required for the "Admin" user:

- Name of "admin" user
- Password "admin"

Chapter 2

INSTALLING THE SOFTWARE

First installation of the SmartLeague program from CD 2-1

If requested in your purchase order, the SmartLeague installation CD will be included in the package. Check the software version in **?**, **About**. Upgraded versions of the SmartLeague packet can be downloaded from the INIM website: INIM www.inim.biz.

It is advisable to install SmartLeague from the CD and then check the INIM website for any upgraded versions. In order to do this you must establish an Internet connection.

Installation procedure 2-1-1

1. Insert the installation CD in the CD-Rom drive of your computer.
2. Click on the "Computer resources" icon on your desktop.
3. Find the CD unit and double-click on the icon: the contents of the CD will be displayed.
4. Double-click on the Setup.exe file: the **Welcome to program installation** screen will appear.
5. Press Continue: the **Select installation folder** window appears.


It is advisable to select the folder suggested by the application.

Note

6. Press **Continue**: the installation of the files will start and progress will be indicated on the progress bar.

Allow full installation. Do not press **Cancel** at any point during the installation phase.

Note

7. On completion of the installation, the SmartLeague icon will appear on your desktop:
top: 

Checking for the availability of a newer version of the SmartLeague 2-1-2

1. Go to www.inim.biz and check for the availability of an upgraded version of the SmartLeague.
2. Check the differences between the installed version and the new version.
3. Work carefully through the instructions provided on the website.

Checking for the availability of a new version of the firmware 2-1-3

1. Go to www.inim.biz and check for the availability of control panel firmware upgrades.
2. Work carefully through the download and installation instructions. Each upgrade is accompanied by a new version of this manual.

Chapter 3

GENERAL DESCRIPTION

Initial page 3-1

On application startup the program will request entry of the user's name and password in order to login; on acceptance, the initial page will appear.

The initial page of the SmartLeague is common to all the programmable devices and is always active, even during the programming session (in the form of a template):

A	The menu bar, application icons and programming accessories.
B	List of recent solutions which allow you create new solutions or open existing solutions.
C	Documentation installed on the computer.
D	Help area: via the Internet, it is possible to consult FAQ page, make enquiries and suggestions via e-mail.
E	The "Direct line" section with browser for Internet navigation.

Menu bar 3-2

Section for the management of file-solutions (New, Open, Save) inside your database, for printouts and program closure.

FILE

- **Read** - this key manages data transfer from the control panel to your computer. If your PC is connected to the control panel, this function will allow you to load the control panel programming data to your PC.
- **Write** - this key manages data transfer to the control panel, this function will allow you to send the current programming data to the control panel.

PROGRAMMING

This menu contains the following sections which allow you to set up and use the software:

SETTINGS

- **Application data**
- **Layout**
- **Access management**

For a description of these sections refer to *paragraph 3-2-1 Settings menu*.

This section allows you to transfer solutions from your computer database:

DATABASE

- **Export** - this option saves and exports data (solutions) to xml file.
- **Import** - this option loads data (solutions) from xml file.

The **Monitoring** option opens a window that, by means of a direct connection with the SmartLiving control panel, allows you to monitor the entire system in real-time (refer to *Chapter 10 - Monitoring the SmartLiving control panel*).

CONTROL PANEL MANAGEMENT

Settings menu 3-2-1

This option on the menu bar allows you to set the generic parameters of the SmartLeague software.

This option on the settings menu opens a window containing three sub-sections.

APPLICATION DATA

In order to confirm existing settings or any changes, press the **OK** button, or the button to cancel.

Section	Group	Option		
	Communication type	This section allows you to set up the communication port between your SmartLeague-equipped computer and the control panel. For a description of the type of connection and its use refer to <i>Chapter 4 - Connecting to the control panel</i> .		
	• Serial	Serial port	Selection box for the serial port.	
	• SmartLAN in models: -SmartLAN -SmartLAN/SF for SmartLoop control panels -SmartLAN/484 for SmartLine control panels -SmartLAN/G -SmartLAN/SI For SmartLiving control panels	IP Address	Programming field for the IP address of the SmartLAN board of the control panel. The address is to be followed by the programming port. For example: 10.101.102.10:5004	
			Button to open a window which allows you to search for the SmartLAN board connected to the Ethernet network the PC is linked to. Once the search has been launched, a list of all the detected boards and their details will appear. By double clicking on any one of the boards, its address and port will be inserted automatically in the IP Address section.	
		User name Password	Programming field for the credentials of the user requesting access. The credentials must be those set in the programming section of the control panel network board.	
		Connection check	Button to open a window for the TCP/IP connection check.	
	Configure	Button to open a window for the SmartLAN/SF or SmartLAN/SI programming procedures (<i>paragraph 4-3 SmartLAN/SF and SmartLAN/SI programming</i>).		
	Encrypt data	Option to enable the encryption of transmitted data.		
	• Connection via GPRS	Start	Button to open a window for the GPRS connection (<i>paragraph 4-1 Connection via GPRS</i>).	

	<ul style="list-style-type: none"> Connection via Cloud 	User name Password	Programming field for the details of Supervisor user of the Inim Cloud who will access it by clicking on the Login button.
		List of control panels available on Cloud	Click on the Login button for a list of the control panels registered in the cloud profile of the Supervisor which are the same type as the SmartLiving control panel that opened the solution. The control panel to be programmed can be selected from the list.
		Check Connection	Button to start a connection test with the control panel selected in the box above.
Printer settings	This section allows you to arrange the headers of the printouts requested by means of the key.		
 Various	Language	Section for the selection of the SmartLeague software language (<i>paragraph 3-3 Language</i>). Language changes will become operative only after the software restarts.	
		Change New language	These buttons open a window containing an application which allows you to change the language setting, selectable in the box, or to create a new language.
	Direct line	Section for the address of the website shown on the startpage of the SmartLeague software. This setting will become operative only after the software restarts.	
		Download contents every:	Option which, if enabled, determines the frequency (expressed in minutes) of the update of the website indicated in the field below.
	Access control	Option which enables the check on user access (<i>paragraph 1-4 Software access</i>).	
Check ping on TCP/IP connection	Option which enables the TCPIP connection check, by means of a ping before each programming data read/write operation. In the case of local networks, this option must be activated. In the case of connections through the router, however, this option might impede the communication if the recipient router is not enabled to respond to pings.		

Section for the management of the SmartLink layout templates (view mode).

LAYOUT

This section allows you to create user profiles, specify the groups each user belongs to and indicate their enablements.

ACCESS MANAGEMENT

For further details refer to *paragraph 1-4 Software access*.

Language 3-3

The SmartLeague application is capable of using different languages selectable from the **Language** section, under **Settings, Application data, Various**.

To select the application language, click on the required option then press the **OK** button. The selected language will be active after reboot.

The language section also allows you to change the selected language and, if necessary, create a new one by means of the **Change** and **New language** buttons.

These buttons open a window which allows you to select the source language.

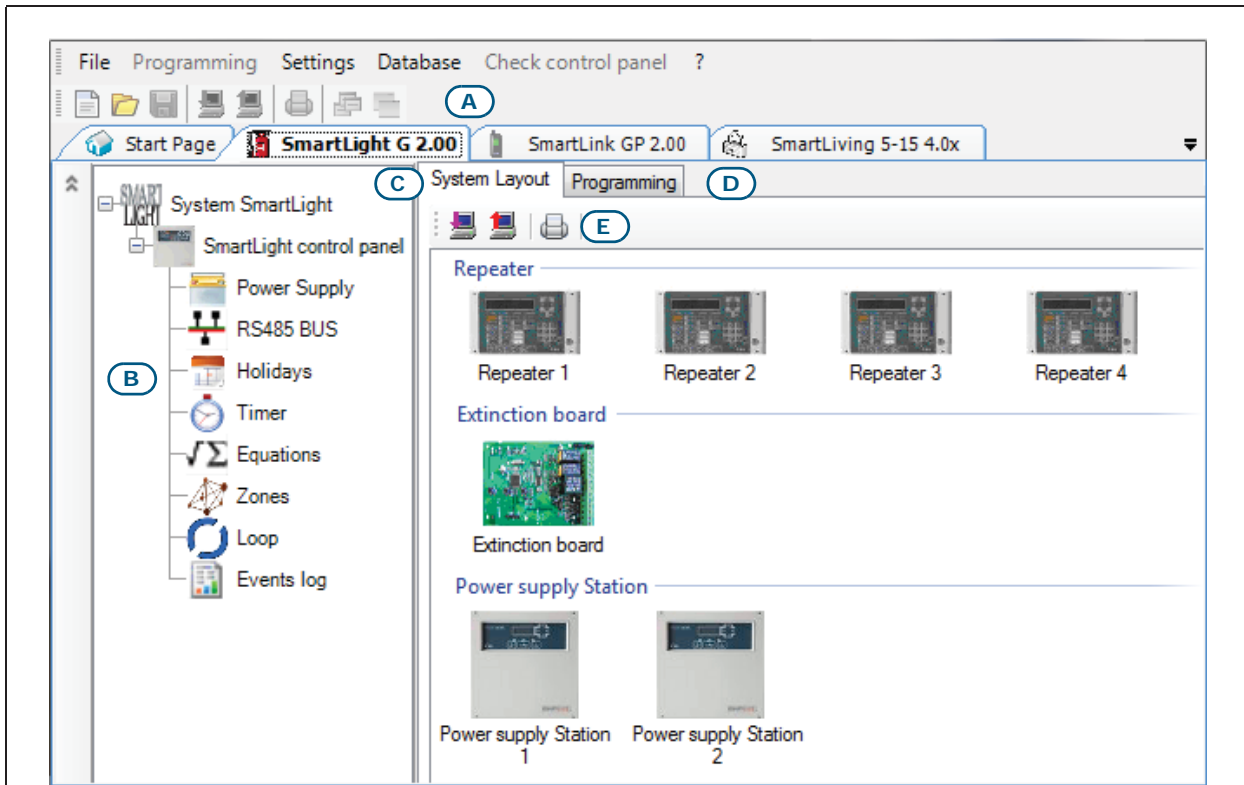
The **OK** button opens another window containing the strings used by the application. The strings in the source language (on the left) can be compared with those of the language to be changed or the new language (on the right). This window allows you to edit and save the new strings.

Solutions 3-4

Each solution is dedicated to a specific type of apparatus and has its own programming interface. You can work on several solutions simultaneously, even if they involve different types of apparatus.

Each solution has a template, located next to the **Start page** tag, which can be viewed at all times. In this way, you can compare different solutions and even keep two solutions open, one real and one for test purposes (in order to verify the effects of programming).

When a solution opens, the SmartLeague software program presents the following interface:



A	The template of the open solution is in the forefront and the pages of other open solutions and the Start page are in the background.
B	System tree structure
C	System Layout section: allows you to select the system devices/peripherals and drag and drop them to the tree structure.
D	Programming section: allows you to program the devices/peripherals in the tree structure.
E	Data transfer keys and function keys relating to the open programming page.


A solution can be created or changed even without being connected to the apparatus. For example, you can prepare a system layout and/or set parameters while in your office and later, when you arrive at the installation site, connect your PC (with the SmartLeague program running) to the system and write the solution on the apparatus and test its validity.

CONNECTING TO THE CONTROL PANEL

The connection with the control panel is required during all Read operations (from control panel) and Write operations (to control panel). This connection can be via:

- **Serial:** this is a direct connection with the control panel via serial port.
In this case, you must ensure that the cable is long enough to allow connection to the installed apparatus.
- **USB:** if your computer is not equipped with a serial port, you can use a USB port and a USB converter.
You must ensure that your computer has a suitable driver for the converter, and that the software is capable of using the virtual serial port created during the connection phase of the USB plug.
- **LAN network and Internet:** this type of connection is achieved through appropriate network boards (accessory items for INIM control panels):
 - SmartLAN and SmartLAN/SF boards for SmartLoop control panels
 - SmartLAN/485 board for SmartLine control panels
 - SmartLAN/G and SmartLAN/SI boards for SmartLiving control panelsThe operating mode of each SmartLAN board depends on the configuration of the network it is connected to. The manufacturer strongly recommends that you contact the network administrator for the correct configuration.
- **GPRS:** the TCP/IP server provided by the SmartLeague application must be activated; communication with the control panel cannot be established until the teleservice request is received from the control panel (refer to *paragraph 4-1 Connection via GPRS*).
It is possible to connect with the SmartLiving control panel via GPRS through a Nexus/G communicator.
- **Inim Cloud:** the connection of control panels to the Cloud service is achieved via LAN or GPRS without any need to configure the network on which the control panel is installed. In particular, it is not necessary to program a router to perform port-forwarding and the like in order to reach the control panel.
Intervention with regard programming relating to network operations is not required on SmartLAN cards, since these cards are programmed by default with DHCP enabled (option to automatically assign an IP address to the devices on the network).
- **PSTN:** it is possible to connect with the SmartLiving control panel from remote locations via modem (refer to *paragraph 4-2 Connection via modem*).
 - If you are using an ordinary modem you must install a SmartModem200 board (accessory item) on the control panel (refer to *paragraph 4-2-1 SmartModem200 board*).
 - If you are using an INIM Electronics SmartModem100 the interface board is unnecessary.

Connections can be set up in two ways:

- Using the **Settings, Application data**, board **Communication type** (serial port, SmartLAN or via GPRS)
- Using the **System Layout** section and by using the  button if you intend using a modem.

For further details and specifications refer to the respective installation manuals.

Connection via GPRS 4-1


The connection with the control panel cannot be established until the teleservice request is received from the control panel. The request can be made from a keypad (for SmartLiving control panels) or via SMS message command (for SmartLiving control panels and SmartLinkAdv diallers).

After completion of GPRS parameter settings (refer to *paragraph 9-5 Nexus* for SmartLiving control panels or *paragraph 12-1 SmartLink Advanced system* for SmartLinkAdv diallers) you can activate the GPRS connection as follows:

1. Start the SmartLeague software application and access **Settings, Application data**.
Select **Connection via GPRS** from the **Communication Type** section, then click on **Start**.
2. The **Start** buttons opens the GPRS connection status window, where you can set up the port that must coincide with the previously-described **Port** option.
3. Click on the **Connect** button to activate the server.
4. The connection cannot be established until the teleservice request is received. The teleservice request can be made in different ways, as follows.

Select the "Nexus teleserv." option from the User menu, then press the "OK" button to access the teleservice session.

The Nexus/G will start the connection process to the address and port programmed in the **Nexus, Programming, GPRS settings** section of the SmartLeague application. The keypad will show the connection status for about 90 seconds and the following messages may appear:

- **GPRS connected** - this indicates a successful connection; 10 second after the visualization of this message, the keypad will return to standby status and the  icon on the second line of the display will blink.
- **Connection Error** - this indicates a failed connection.
- **Error code: xxx** - this indicates that code error is the reason for the failed connection.

TELESERVICE REQUEST FROM KEYPAD

Code	Error
001	GPRS connection error
002	
003	
004	
005	GPRS service not provided by the SIM provider
006	Possible APN error
007	Possible APN error or GPRS not enabled
008	GPRS connection error
015	TCP connection error (wrong URL, wrong port, server on SmartLeague disconnected or unreachable, etc.)
016	TCP disconnection error
024	GPRS connection error

Code	Error
025	GPRS disconnection error
027	GPRS connection error
028	Command error - connection not supported (the Nexus or SmartLinkAdv version in use cannot support GPRS)
029	GPRS multi-connection error
030	Unexpected remote disconnection (sudden shutdown of the SmartLeague server)
101	Error during TCP connection
102	
103	
105	Problems with normal control panel operating capacity
106	Generic internal error
107	GPRS disconnection error

The request can be made by means of an SMS text message of the installer; the message format must be as follows:

<xxxxxx> CONNECT <Connection Name> <URL>:<Port>

where:

- <xxxxxx> represents the installer code PIN, followed by a blank space
- "CONNECT" represents the connection command, followed by a space
- <Connection Name> is the description of the connection (previously described), followed by a space
- <URL>: represents the IP address of the server you wish to connect to, followed by ":",
- <Port> is the connection port

If you intend using the settings configured in the **Programming, GPRS settings**, the last two parameters can be omitted.


After the SMS message has been sent, you must wait until the software indicates that the connection is active.

5. Once initialized, you can carry out the desired read/write operations via the SmartLeague software.

TELESERVICE REQUEST VIA SMS

6. When the programming session is complete, access **Settings, Application data, GPRS Connection**, then select **Disconnect** to end the connection
If no read/write operations are carried out for 3 consecutive minutes, the GPRS connection will end automatically.

Connection via modem 4-2

If you are using a modem to access the SmartLiving control panel from a remote location, the connection can be made through the **System Layout** section and by pressing the  button.


A window will appear where you can program the modem and connection parameters:

Group	Option	
Connect	INIM Modem / Standard Modem	Select the modem, SmartModem100 or ordinary modem.
	Serial Port Modem	This is the serial port the modem is connected to.
	Telephone number	This is the telephone number of the control panel you wish to connect to.
	Installer code	This is the PIN of the installer code you wish to connect to.
	Installer callback	Select this option to enable the "Installer callback" option on the SmartLiving control panel. The control panel recognizes the installer call and makes the callback.
	Enable double call	If this option is enabled, the modem will generate two calls to the control panel.
Modem options (for SmartModem100 only)	Pulse dialing	If enabled, the telephone number will be dialed in pulse dial mode.
	Agc	This allows automatic adaptation to the telephone line.
	Serial majority	This option must always be enabled
	Dial tone check	If enabled, the control panel will check the telephone line for the engaged tone, dial tone and line-down tone.
	Buzzer ON	This setting allows the modem buzzer to emit audible signals
	Demodulation correction	This option must always be enabled
	Communication speed	You must select the speed: 1200, 600, 300 or V21. In the event of continuous communication errors, you must decrease the selected speed progressively.
	Number of attempts	This option determines the number of times the modem will attempt to communicate with the control panel before signalling a communication error.
	Number of rings	This option determines the number of rings the modem will allow before picking up an incoming call.
	Frame length	By means of the cursor, this option allows you to regulate the maximum number of bytes per frame.
	Ring sensitivity	By means of the cursor, this option allows you to regulate ring sensitivity.
	Default	Reset button (resets to factory default)

After completing all the above-mentioned settings, press the **Connect** button to save the programmed data and start the connection between the modem and the control panel. Once the connection has been established, the status indicator (on the lower right-hand corner of the window, as shown in the figure) will switch from "Disconnected" to "Connected". At this point, you can use all the pages and sections of the application and read/write parameters from/to the control panel.

Press the **Disconnect** button to end the Teleservice session.

SmartModem200 board 4-2-1

In order to access the programming phase of SmartModem200, you must first select **Telephone** from the SmartLiving tree structure on the left of the window, go to the **Programming** section on the right, then click on the  icon. A window will appear with a header indicating the serial port used by the local modem.

You must set the following parameters:

- **Number of rings** - select the number of rings (from 1 to 20) the SmartModem200 must allow before connecting to your (the installer's) computer.
- **Connection Timeout** - select the number of seconds (from 10 to 200) the modem must wait before disconnecting after closure of the SmartLeague application without proper sign out.
- **Double call** - If this option is enabled, the SmartModem200 will be able to perform double calls. In order to function, the installer's computer modem must also be connected.

The following buttons are available:

- **Read** - reads the settings of the aforementioned options/parameters.
- **Send** - writes changes of the aforementioned options/parameters.
- **Cancel** - for closing the window without saving.

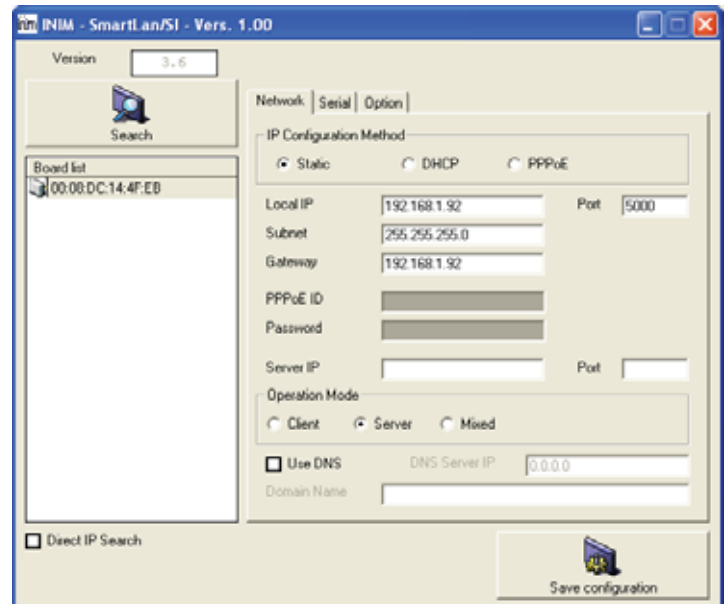
SmartLAN/SF and SmartLAN/SI programming 4-3

The SmartLAN/SF and SmartLAN/SI boards can be programmed only via the SmartLeague software programme.

1. Select the option from the **Settings – Data application** menu. A window will open
2. Access the **Communication Port** section:
3. From the **Communication Type** field, select **SmartLAN/SF** or **SmartLAN/SI**, in accordance with the control panel configuration.
4. If required for **SmartLAN/SI**, enable data encryption by enabling the **Encrypt data** option.
The enablement of this option is valid only when the **Data encryption** option is enabled on the control panel via a keypad through the installer menu:

PROGRAMMING Panel Options > Data encryption

5. Click-on the **Configure** button, which appears in the window opposite.
6. Click-on the **Search** button to activate the automatic search for the SmartLAN board which is connected to the network. Once found, the window will update with the respective data.
7. At this point it will be possible to change the options in order to adapt them to the configuration of the LAN network the SmartLAN is connected to. For this purpose, you must access the **Network** board.
8. Select "Static" in the **IP Configuration Method** programming field.
9. The main sub-section will allow you to change:
 - Local IP
 - Port
 - Subnet
 - Gateway
10. In the **Operating Mode** sub-section it is necessary to select "Server".
11. If you wish to change the password, you must access the **Option** section and, in the **Password (TCP Server)** programming field, click-on **Enable** and enter the new password (maximum 8 alphanumeric characters).
12. Once the configuration process is complete, press the **Save configuration** button in order to send the new data to the board, save it to the database and exit the window.
13. The SmartLeague software will return to the **Application data** window, where you must enter the new data in the **IP Address** field.
14. Press the **OK** button.



Connection via Inim Cloud 4-4

The connection to the Inim Cloud service is available for all control panels with a firmware version not lower than 6.03.

In order to connect the control panel you must have one of the following devices:

- SmartLAN/G, with a firmware version not lower than 6.08
- SmartLAN/SI, with a firmware version not lower than 5.00
- Nexus/G, with a firmware version not lower than 4.00

The Cloud connection can be achieved only when the control panel to be programmed has previously been registered to the service by the installer.

In this case the control panel will be among those accessible through the installer's own web interface and also among those in the **List of control panels available on Cloud** available in **Communication type** section of the SmartLeague settings menu.

Note

During the programming phase via SmartLeague, the procedure for connecting with the control panel is as follows:

1. Start a SmartLiving solution.
2. Access the **Settings, Application Data, Connection via Cloud** section of the menu.
3. Enter the details of the Cloud Supervisor user in the **User name** and **Password** fields and click on **Login**.
The **List of control panels available on Cloud** section will provide a list of SmartLiving control panels that are the same model as the one that opened the SmartLeague solution. These control panels are already registered to the Inim Cloud service in the installer supervisor profile.
4. Select the control panel you wish to programme.
5. If necessary, carry out a connection test with the selected control panel by clicking on **Check Connection**.
6. Click on **Ok** to start the connection.



Chapter 5

USING THE SOFTWARE PROGRAM

Preparing a project 5-1


The SmartLeague application allows you to configure the system and create a solution that specifies the type and number of peripherals and devices that are present on the system.

You can either create a new solution or change an existing one. The solution can be either created through the SmartLeague application or imported directly from a 'real' system (i.e. a system that is already up and going).

1. If you are creating a new solution, go to the **Recent solutions** section, or to the **File** menu and click on **New solution**, then select the type of control panel and the respective firmware version.
If you intend to modify an existing solution, press the **Open solutions** button, or import the data from the 'real' system you are connected to by clicking on the  button.
2. A tree structure of the system you wish to configure is shown on the left side of the window. The structure shows all the devices that make up the system.
3. In the section on the right of the **System Layout** window, select the type of device you wish to configure and drag and drop it to the appropriate part of the tree structure.
or
Double-click on a device to add it to the configuration.
To remove a component from the structure, select the component in question and press **Canc** on the computer keyboard.
4. Connect your computer to the system.
5. To write (send) the data to the control panel, click on the  key.


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

6. Save the solution (>**File, Save**) and print the details (>**File, Print**).

Additionally, the SmartLeague software application provides a button  which allows you to create a file capable of interfacing with supervisory software such as INIM's SmartLook or WinMag (ask you dealer for details).

Note

Programming 5-2

1. Open a solution for a system (>**File, Open**).
2. Select the first element to be programmed from the tree structure on the left of the window, then customize the device options/parameters in the respective template on the right.
3. Connect your computer to the system.
4. To write (send) the data to the control panel, click on the  key.


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

5. Save the solution (>**File, Save**) and print the details (>**File, Print**).

Note

Importing/Exporting data 5-3

The SmartLeague application allows you to export and import solutions saved to the database in order for them to be used by other computers. This operation is done by saving the selected solution in an xml file which contains all the solution data.

If you wish to export data, click on , to open a list of all the solutions saved to the database of the SmartLeague application.


EXPORT

Click on a solution and on the export button (at the bottom of the window) to open another window where you can save the solution with the name of the previously mentioned xml file.

Click on  and select the xml file containing the solution to be imported, then select the relative solution and click on the **Import** button to import it.

IMPORT

Print 5-4

1. Define the header data you require on the printout by entering it in the **Printer settings** section from the **Settings, Application data** menu.
This section allows you to define a 4-line text and select an image file.
2. To print the open section press the  icon.
3. A window will open where you can select the data and parameters, press **Ok**.
4. Another window will open showing a preview of the printout which must be confirmed.

Chapter 6

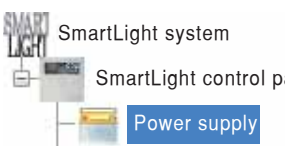
PROGRAMMING SMARTLIGHT CONTROL PANEL

SmartLight control panel 6-1

Parts of the system	Programming section			
	Group	Option	Note	
	Date/Time	Date/Time	Editable field for the date and time A button is available which accesses the synchronization process of the control panel clock.	
		Date format	Three date formats are available.	(dd/mm/yy, mm/dd/yy, yy/mm/dd)
		Local date/time	This button loads the current date and time of the PC in use to the "Date/Time" field.	
		Write date/time	This button writes only the settings of this specific group on the control panel.	
	Daylight Saving Time	Change to DST	This option enables changeover to Daylight Saving Time and back.	
		Time of changeover	This selection menu allows you to set the hour of the automatic changeover.	
	Maintenance options	Maintenance date	This editable field allows you to set the date and time of the next maintenance session. The control panel will signal a fault event in accordance with this setting. The signalled fault event can be cleared by entering this menu and setting a later date.	
	Viewing options	Show monitor events on display	This option enables real-time signalling of monitor events on the screen as well as in the events log.	
		Activate the extinction board in the event of a double knock alarm on zone	If this option is enabled, the extinguishant board will be activated by "double alarm on a zone" signals, instead of by "single alarm on a zone" signals.	
		Disable buzzer	If this option is enabled, the buzzer will be unable to emit audible signals.	
		Generate alarm on second pre-alarm	This option enables the system to generate an instant zone alarm if a detector signals alarm conditions when the pre-alarm time of another detector is running.	
	Loop options	Drive loop from both ends in the event of an alarm	If enabled, in the event of an alarm, the control panel will be able to drive the loop from both ends (OUT and IN), in such a way as to make up for any voltage drop caused by devices in alarm status and/or activated outputs.	
		Signal dust contamination on detectors	If enabled, the control panel will signal dust contamination as a fault.	
		Interrogate only devices in configuration	If activated, the control panel will not interrogate cyclically all the available addresses (up to 240 for SmartLight/G, up to 64 for SmartLight/S), but will interrogate only those in the system configuration.	
		Automatic loop-restoral check	If enabled, in the event of an open-loop, the control panel will run a periodic check to see if the fault has cleared. If the fault is no longer detected, the system will stop the fault signal instantly, instead of when the system rearms.	

Other options	Dialer output alarm-delay	Editable field for the delay between the alarm signal and activation of the alarm output of the DIALER (communicator).	Seconds
	Silence automatic release in night mode delay	Editable field for the duration of "Silence" commands executed when the control panel is operating in night mode.	Seconds
	NAC output pattern	16 icons are aligned, each of which represents a step (indicated by a beep) of 0.5 seconds. You can activate/deactivate the audible signal which corresponds to the step.	0.5 seconds per step
	Verify control panel lock code	<p>Button to test whether it is possible or not to read/write the control panel parameters:</p> <ul style="list-style-type: none"> If the control panel is "unlocked", you will be able to write/read programming data to/from the control panel. The password field allows you to enter an alphanumeric lock-code of your choice that will lock programming as soon as you press the Lock panel button. If the control panel is "locked", you will not be able to write/read programming data to/from the control panel until you enter the "lock" code and press the Unlock panel button. 	The "lock" applies to programming operations via the software application as well as from the control panel.

Switching power supply 6-2

Parts of the system	Programming section		
Group	Option		Note
	Mains failure delay	This is the delay (from 0 to 30 minutes) between detection of a drop in mains voltage and the respective fault signal. This delay avoids the unnecessary signalling of brief black-outs in the mains electricity supply.	2 - 30 min
	Standby autonomy	This is the autonomy the battery must guarantee in standby mode.	hours
	Alarm autonomy	This is the autonomy the battery must guarantee in alarm mode.	minutes
	Extra loads in standby	Loads, other than the control panel board, connected to the AUX terminals, that the battery must supply during standby status.	mA
	Extra loads in alarm	Loads, other than the control panel board and loads connected to the AUX terminals, that the battery must supply during alarm status.	mA
	Battery efficiency factor	The ratio between the real value and the nominal value of the battery capacity.	
	Minimum battery requirements	The Calculate button calculates the minimum battery requirements for the aforementioned performance.	Ah
Real-time output voltage	The Real-time button allows the control panel to feed back the real-time output voltage.		Volts
Tutorial for the connection of a thermal probe	Button to view the Thermal Probe connection guide.		

Power supply station 6-3

Parts of the system	Programming section		
	Group	Option	
	Extinction point	Check box to enable the signal from the extinguishant board to activate the output.	
	Output activation zones	Two separate zones	You can select the two zones from the two lists in the two respective programming sections.
		Zone group	You can choose the two timeframe zones by selecting them from the two lists in the respective programming sections.
	Output activation signals	In this subsection you can select the signals which will activate the output. The list of available signals varies in accordance with the status of the "Extinction point" option.	
	Other	Output activation equation	This programming area allows you to choose one of the available equations.
		Silenceable	Check box to make the output Silenceable from panel attribute.

Holidays 6-4

Parts of the system	Programming section		
	Group	Option	Note
	The software provides a table which allows you to program holidays. Each line on the table corresponds to a holiday and each column corresponds to a parameter of each holiday.		
	Enable	Check box for the enablement of the corresponding holiday.	
	Day / Month / Year	This field allows you to choose the day/month/year of the corresponding holiday.	
	Sunday / ... / Saturday	Check box for the choice of the days of the week of the holiday.	
	Time	Numeric field for the duration of the corresponding holiday. The entered value must be higher "0" otherwise the holiday will not be valid.	Days

Timers 6-5

Parts of the system	Programming section			
	Group	Option		
	A list of the available timers is shown on the left-hand side of the Programming section. The timers can be activated by means of their check boxes. You must select a timer from the list before programming the following parameters.			
	Timeframe 1 / 2	This sub-section allows you to select the "Start" and "Stop" times of the selected timer. If you do not wish to specify a timeframe, leave this space empty.		
	Date	Day / Month / Year	This field allows you to select the day/month/year when the selected timer must activate.	
	Days of the week	Sunday / ... / Holiday	This field allows you to select the day when the selected timer must activate. Select "Holiday", if you wish the timer to activate also during holidays.	
	Options	Switch to DAY mode	On timer activation, the control panel will switch to day mode, however, it can be switched back to night mode by a timer or manually from the panel.	
		Switch to NIGHT mode	On timer activation, the control panel will switch to night mode, however, it can be switched back to day mode by another timer or manually from the panel.	
Force Night mode		On timer activation, the control panel will switch to night mode but it cannot be switched back to day mode while the timer is running. However, on expiration of the timer, the control can be switched back to day mode by another timer or manually from the panel.		

Zone	You can choose a zone from the selection field and assign the following attributes.	
	Unbypass zones when the timer deactivates	Check box for the inclusion (unbypassing) of the selected zone on timer deactivation.
	Bypass zone when the timer activates	Check box for the exclusion (bypassing) of the selected zone on timer activation.

Equations 6-6

Parts of the system	Programming section			
	Group	Option	Note	
	A list of the available equations is shown on the left-hand side of the Programming section; each equation can be renamed. Before programming the parameters, you must first select the equation. The formula of the selected equation will appear in the box on the bottom right of the window.			
	Operands	Points	This section allows you to select a point from those configured in the loop and the respective activation signals.	Each operand provides an Add button for its insertion in the equation formula.
		Zones	This section allows you to select a zone and its relative activation signals. Zone "0" indicates any zone.	
		Other zones	This section allows you to select a zone with "Early warning" or "Double knock" activation signals. In this case, zone "0" indicates the control panel.	
		Panel signals	The dropdown box provides one of the following signals: <ul style="list-style-type: none"> • Mains failure • Day mode • Silence 	
		Timers	This section allows you to choose a timer from those available.	
		Constant	Numeric field for the a numeric constant with a maximum of 3 digits.	
	Operators	A button is available for each operator for the insertion of the equation in the formula.		
	Validation time	This is the equation activation time (minimum time the equation must remain real).	Seconds	
	Check equation	Button to start a check on the equation formula.		
Clear	Button to delete the equation formula			

Zones 6-7

Parts of the system	Programming section		
	Group	Option	Note
	The application provides a table which allows you to program zones. Each line on the table corresponds to a zone, whereas each column is a parameter for each zone.		
	Num.	Numeric field for the zone number	
	Description	Editable field for the description/name of the zone	
	Pre-alarm Time	Selection menu for the pre-alarm time assigned to the zone.	Seconds
	Investigation Time	Selection menu for the investigation time assigned to the zone.	Seconds
	Assignment of Points to Zones	This sub-section contains a list of the points configured in the loop. It is possible to change the logic number and description of the points in the list. The column on the right shows the zone assigned to the point.	
			Button for the assignment of the zone selected from the list on the left to the points selected from the list on the right.
			Button for the deletion of the assignment of the zone to the points selected from the list on the right.
		Filter for	List of options per the visualization of the points in the list.

Loop 6-8

Parts of the system	Programming section																																		
	<p>The Programming section allows you to plan and program the loops connected to the control panel.</p> <p>This section is divided in two windows, positioned one above the other:</p> <ul style="list-style-type: none"> The lower section has three sub-sections, one for each type of loop (Argus, Apollo, Inim), accessible through the tabs on the top left. It contains all the different types of loop devices, identified by icons. <ul style="list-style-type: none"> To add a device to the selected loop simply double-click on the respective icon. If you are adding an INIM device, a window will appear for its physical address (hexadecimal serial number). The device will be added to the main loop line or, if activated, to a T-junction branch (see following). The upper window allows you to view the layout of the loop you are working on and also to access the programming parameters of the loop and its devices. The upper section provides three sub-sections, accessible through the labels on the top left: <ul style="list-style-type: none"> Grid - provides a table containing the list of devices comprised in the loop, indicating (in rows) each device, its logic address, its description, the respective zone and the device type. Double click on the device to open a window where you can view and program all the device parameters. Loop connections (for INIM devices only) - provides a layout of the loop devices and their wiring. Each device is identified by an icon, logic address and serial number. Double click on the device to open a window where you can view and program all the device parameters. Right click on the specific device to: <ul style="list-style-type: none"> Delete the selected point Add multiple points - a window will open where you can indicate the number and physical addresses of the devices previously selected in the lower section of the window. This option allows you to apply the "T junction" function to the point (refer to the respective paragraph). Enable the "T junction" - when enabled, the device icon will appear on a red background and any devices added successively will be configured as its "slaves". Therefore, their connections will start from the device with the "T junction" function and not from the main line. Modify the physical device address. Parameters - this section allows you to set up the loop parameters. 																																		
	<table border="1"> <thead> <tr> <th data-bbox="359 1093 518 1137">Group</th> <th colspan="2" data-bbox="518 1093 1402 1137">Option</th> <th data-bbox="1402 1093 1544 1137">Note</th> </tr> </thead> <tbody> <tr> <td data-bbox="359 1137 518 1435" rowspan="4">Loop parameters - Type</td> <td data-bbox="518 1137 815 1227">Loop type</td> <td data-bbox="815 1137 1402 1227">Loop type check box</td> <td data-bbox="1402 1137 1544 1227">Argus, Apollo, Inim</td> </tr> <tr> <td data-bbox="518 1227 815 1285">Wiring type</td> <td data-bbox="815 1227 1402 1285">Wiring type check box</td> <td data-bbox="1402 1227 1544 1285">2 wires, 4 wires</td> </tr> <tr> <td data-bbox="518 1285 815 1352">Maximum number of LED devices ON</td> <td data-bbox="815 1285 1402 1352">Numeric field for the maximum number of LEDs on the loop which can switch on at the same time.</td> <td data-bbox="1402 1285 1544 1352">Max. 100</td> </tr> <tr> <td data-bbox="518 1352 815 1435">Maximum number of detector R outputs activated</td> <td data-bbox="815 1352 1402 1435">Numeric field for the maximum number of detector outputs on the loop which can activate at the same time.</td> <td data-bbox="1402 1352 1544 1435">Max. 100</td> </tr> <tr> <td data-bbox="359 1435 518 1704" rowspan="2">Loop parameters - Other</td> <td data-bbox="518 1435 815 1621">Verification Time</td> <td data-bbox="815 1435 1402 1621">Selection menu for the alarm verification time. If the value of the point exceeds the alarm threshold, it will be reset automatically. If the measured value exceeds the set threshold for a second time within the alarm verification time, the point will send an alarm signal to the control panel, otherwise, it will be ignored.</td> <td data-bbox="1402 1435 1544 1621">2 - 10 minutes</td> </tr> <tr> <td data-bbox="518 1621 815 1704">Filter time</td> <td data-bbox="815 1621 1402 1704">Programming field for the time the status of a "Filtered" device will be ignored after a rearming operation.</td> <td data-bbox="1402 1621 1544 1704">seconds</td> </tr> <tr> <td data-bbox="359 1704 518 1968" rowspan="3">Loop parameters - Dimensioning</td> <td data-bbox="518 1704 815 1771">Total cable length</td> <td data-bbox="815 1704 1402 1771">Numeric field for the total cable length of the installation.</td> <td data-bbox="1402 1704 1544 1771">metres</td> </tr> <tr> <td data-bbox="518 1771 815 1890">Worse case scenario (points at the cable end) Standard case scenario (equidistant points)</td> <td data-bbox="815 1771 1402 1890">Check box for the distribution of points on the lines</td> <td data-bbox="1402 1771 1544 1890"></td> </tr> <tr> <td data-bbox="518 1890 815 1968">Minimum required gauge</td> <td data-bbox="815 1890 1402 1968">The Calculate button allows you to obtain the minimum required wire section in accordance with the loop under configuration.</td> <td data-bbox="1402 1890 1544 1968">mm²</td> </tr> </tbody> </table>	Group	Option		Note	Loop parameters - Type	Loop type	Loop type check box	Argus, Apollo, Inim	Wiring type	Wiring type check box	2 wires, 4 wires	Maximum number of LED devices ON	Numeric field for the maximum number of LEDs on the loop which can switch on at the same time.	Max. 100	Maximum number of detector R outputs activated	Numeric field for the maximum number of detector outputs on the loop which can activate at the same time.	Max. 100	Loop parameters - Other	Verification Time	Selection menu for the alarm verification time. If the value of the point exceeds the alarm threshold, it will be reset automatically. If the measured value exceeds the set threshold for a second time within the alarm verification time, the point will send an alarm signal to the control panel, otherwise, it will be ignored.	2 - 10 minutes	Filter time	Programming field for the time the status of a "Filtered" device will be ignored after a rearming operation.	seconds	Loop parameters - Dimensioning	Total cable length	Numeric field for the total cable length of the installation.	metres	Worse case scenario (points at the cable end) Standard case scenario (equidistant points)	Check box for the distribution of points on the lines		Minimum required gauge	The Calculate button allows you to obtain the minimum required wire section in accordance with the loop under configuration.	mm ²
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Loop setting buttons		Button to open a window where you can read and program all the parameters of the selected device.
		Button to delete the selected device.
		Button to add multiple points - a window will open where you can indicate the number and physical addresses of the devices previously selected in the lower section of the window. This function allows you to apply the "T junction" function to the point.
		Button to change the serial number/physical address of the selected device. If you enable the "Set physical address on insertion" option, the physical address of each successive device will be requested on its insertion.
		Button to open a window where you can start the analysis and read the results of the contamination of the loop devices. The Previously collected data section allows you to type information relating to the test. The button allows you to view a table containing the test analysis results. The Save collected data button allows you to save the test results and respective information.
		This button opens a menu which allows you to start the following loop operations: <ul style="list-style-type: none"> • Enroll - this command starts the loop "Enrolling" process • Re-address - this command starts the loop "Re-addressing" process • Update - this command starts a process which allows the software to compare the loop configuration on the PC with that on the control panel, detect any differences and propose the actions to be implemented. • Assign logic addresses - this command is valid only for Enea series devices which writes the logic addresses on the control panel.
		Button for the importation of a loop configuration (using .xml file) previously exported from FireGenius software.
		This button opens a window which allows you to start Walk tests and view the test results.

Devices 6-8-1

Double click on any of the loop devices to open a window which allows you to view all the properties of the selected device, change its settings and carry out monitoring.

The various parameters described below do not apply to all devices, therefore, may not apply to the type of device selected.

Group	Option		Note
Device	Description	Editable field for the device description.	
	Physical address	Editable field for the physical address requested by the software during the addition of the device to the loop.	Hexadecimal
	Logic address	Field indicating the address of the device on the loop.	
	Device type	Field where the device type is indicated.	(for example, optical detector, input/output module)
	Type details	Field where the device model is indicated.	(for example, ED100, EM312SR).
	Firmware version	The View button allows you to view the software version of the device.	Connection with the system is necessary
	Production Date	Field where the production date of the device is indicated.	
Buttons	OK	Closes and saves any parameter changes.	The solution must be saved otherwise any changes will be lost.
	Cancel	Closes without saving any parameters changes.	
	Write settings	Button to save all the changes to the device memory.	Connection with the system is necessary
	Wiring diagram	Shows an example wiring diagram for the device.	
	Monitoring	This button opens a window where you can open a monitoring session; refer to <i>paragraph 6-8-2 Device monitoring</i> .	

Property	Zone	This programming section provides a list which allows you to select the zone the device belongs to.	
	Extinction point	This check box allows you to indicate whether or not the point is an Extinction point. If you tick the box, the software will provide the Extinction section containing the respective parameters.	
	Early warning	This check box allows you to indicate whether the device has a warning threshold. The device will generate a "Early warning" signal when the detected value exceeds the programmed threshold.	Activation of this option automatically activates the Early warning threshold programming parameters.
	Early warning threshold	The threshold bar allows you to select the desired threshold level. Each level corresponds to a pre-determined value detected by the device which must not be exceeded.	The measuring unit levels depend on the type of device.
	Blink on LED	Check box to enable blinking on the LED of the device connected to the device.	The green LED will blink each time it is polled by the loop.
	Automatic LED	This check box allows you to enable the device to control automatically the LED in accordance with its various events (commands from the control panel are not required).	For example, in the event of an alarm the detector activates the red LED.
	Remote LED	This check box indicates the presence of an alarm repeater connected to the device.	This is required by the software for the loop dimensioning operations.
	Do not bypass on zone bypass	Check box to enable the device to operate even when the zone it belongs to is bypassed.	
	Blink on remote output LED	Check box to enable blinking on the LED of the repeater connected to the device.	
	Heat sensitivity	Dropdown box for the selection of the operating mode of the heat detector.	A1R, B, A2S, BR
	Smoke sensitivity	Dropdown box for the selection of the smoke alarm value.	0.08 - 0.10 - 0.12 - 0.15 dB/m
	Smoke sensibility - night	Dropdown box for the selection of the smoke alarm value when the control panel is operating in "Night" mode.	
	Operating mode	Dropdown box for the selection of the operating mode of the heat and smoke detector.	<ul style="list-style-type: none"> • Heat or Smoke • Heat and Smoke • Only heat • Only smoke • Plus
Input	Bypass	This check box allows you to bypass the zone the device belongs to.	
	In test	This check box allows you to apply test mode to the zone the device belongs to.	
	Signals activated by point	Section for the selection of signals to be activated by devices.	Alarm, Pre-alarm, Fault, Early warning, Monitor
	Verify alarm	If enabled, the control panel will not generate an alarm when the detector exceeds the programmed threshold, instead it will start the pre-set "Verification Time". If the detector exceeds the threshold while the "Verification Time" is running, the control panel will generate an alarm, if not, it will not generate any kind of signal.	Refer to <i>paragraph 6-8 Loop - Loop Parameters- Other</i>
	Restorable Monitor	If enabled, the control panel will reset the outputs as soon as the alarm condition clears.	
	Pre-alarm night mode	This check box allows you to enable the pre-alarm signal when the control panel is operating in Night Mode.	
	Post-rearm filter	If enabled, the control panel will ignore signalling from the device for a pre-set time after control panel rearming operations ("Filter Time").	Refer to <i>paragraph 6-8 Loop - Loop Parameters- Other</i>

Output	Alarm repetition on detector	If this option is enabled, the device output will activate when the device goes into alarm status.	Enablement of this option excludes all the other options in the output section.
	Output activation zones	This section allows you to select the zones which will activate the device output. It is possible to select two distinct zones or a group of zones from the list.	If you do not wish to select any zone in particular, leave "<select>" in the programming field.
	Output activation signals	Section for the selection of signals that activate the device output.	Alarm, Pre-alarm, Fault, Early warning, Monitor, Bypass, Test, Double knock
	Type	Classification of output	Bistable, Pulse
	Activation time	Valid for "Pulse" outputs.	seconds For unlimited period, leave the value at "0"
	Output activation equation	The list of equations allows you to select the equation which, when verified, will activate the device output.	If you do not wish to specify any equation, leave "<select>" in the programming field.
	Silenceable	This check box allows you to select whether the output can be silenced (deactivated) by means of the "SILENCE" button on the control panel.	
	Echo rearm	This check box allows you to select whether the output will activate after control panel reset.	
	Output disabled by bypass sounder operations	If this option is enabled, the output will be disabled when the "Sounder group" is bypassed from the control panel.	
	Do not restore on panel reset	This check box allows you to select whether the output will reset to standby when the control panel rearms.	
	Remote output connection supervision	This option allows you to verify the integrity of the connection with remote LED. Any interruptions will be signalled by fault on the output.	
Extinction command	Activation type	This section allows you to select which type of signal (assigned to extinction) must be activated by the input.	None, Bypass extinction, Bypass manual extinction, Bypass automatic extinction, Pressure switch, Confirm extinction, Manual extinction, Stop extinction
	Output activation signals	Section for the selection of signals that activate the device output.	None, Extinction, Pre-extinction, Confirm extinction, Stop extinction
	Restorable	This option indicates whether the input is restorable or not.	
	Silenceable	This check box allows you to select whether the output can be silenced (deactivated) by means of the "SILENCE" button on the control panel.	
	Output activation type	Classification of output	Bistable, Pulse
	Activation Time	Valid for "Pulse" outputs. This is the time the output must remain active.	seconds For unlimited period, leave the value at "0"

Device monitoring 6-8-2

The device monitoring window is divided into two sections. The device parameters can be seen only when the SmartLeague equipped computer is connected to the system the device belongs to.

Group	Option		Note
Real-time	This section shows a graph containing the values read by the device (in accordance with its type) during the monitoring period (seconds): <ul style="list-style-type: none"> Level of smoke in the protected environment in mdB/m (for optical detectors) Temperature in the protected environment in °C (for heat detectors) Input resistance in Ohm (for modules) 		In the case of optical-heat detectors the graph shows both the level of smoke (in light blue, on the left) and the temperature (in red, on the right).
	Real-time ON/OFF	Button to start/stop the device monitoring phase and the report graph.	
	Contamination analysis	Button for feed-back information regarding the contamination value in the optical chamber.	%
	Voltage	Button for feed-back information regarding the power-supply voltage to the loop device.	
	Alarm counter	Button for feed-back information regarding the number of alarms detected by the device and saved to its memory.	
	LED ON/OFF	Button to switch ON/OFF the device status LED.	
	Output ON/OFF	Button to switch ON/OFF the device output.	
Alarm history	This section allows you to start a process which provides a graphic report containing the values detected by the device in the 5 minute period prior to the last alarm.		
	Alarm history	Button to start the Alarm history report.	

Events log 6-9

Parts of the system	Programming section			
	Group	Option	Note	
	The Programming section of the Events log allows you to view all the events saved to the control panel log. The lines on the table show the individual events and the columns show the following categories.			
	N.	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 / Day	Date, time and day of the week of the event.		
	Event type	Type of event		
	Event ID	Point or element involved in the recorded event (e.g. "Optical detector 001" or "Output fault")		
	Attribute	Zone involved in the recorded event		
	Events log from database		Button to save the contents of the events log to the database.	These buttons are active only when you are working on a solution or a database. In particular, the "Save" button becomes active only after a reading from the control panel.
			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.	

Extinction board 6-10

Parts of the system	Programming section			
	Group	Option	Note	
	Zones	List of available zones (selectable by means of check boxes) which will activate extinction when they go into alarm status.		
	Various	Extinction board programming identification	Field for the progressive number which indicates the number of times changes have been made to the board programming data (in order to provide a history of implemented changes).	
		Duration of re-arm lock after an extinction process	This is the amount of time the control panel will lock for after an extinction process.	Minutes
		Pre-extinction time	Duration of the automatic Pre-extinguish Time , activated by a zone in alarm status.	Seconds
		Manual pre-extinction time	This is the duration of the automatic pre-extinction process activated from a MAN-EXT input, or from an extinction point programmed as a manual extinction input, or enabled from a manual button.	Seconds
		Extinction time	This is the activation time of the solenoid valve, starting from the end of the pre-extinction time. You can select the output type: bistable or pulse.	If you select 'pulse', you will be able to specify the duration in seconds.
		Confirm extinction time	This is the interval period after the activation the solenoid valve output (VALVE) and the first confirmation of gas release.	Seconds
		Gas discharge delay	This is the time which must pass before a second discharge of extinguishant gas is released, in the event that the previous gas discharge is not confirmed.	Seconds
	Activate when	One / Two / All zones in alarm status	This section allows you to select the number of zones which must go into alarm in order to activate the board.	
	PRESS input	Supervision	The activation of the PRESS input indicates a drop in pressure of the extinguishant gas.	
		Confirm by pressure switch	The activation of the PRESS input will indicate that the gas cylinders are empty.	
		Confirm by flow detector	The activation of the PRESS input will signal gas flow intervention.	
	Confirm extinction	Await extinction confirmation from pressure switch	The control panel will receive confirmation of the release of extinguishant gas from the pressure switch.	
		Await extinction confirmation from a flow detector	The control panel will receive confirmation of the release of extinguishant gas from a flow detector.	
		Do not await confirmation	The control panel will not receive confirmation of the release of extinguishant gas from the pressure switch.	

Chapter 7

PROGRAMMING THE SMARTLOOP CONTROL PANEL

SmartLoop System 7-1

Parts of the system	Programming section	
SmartLoop System Date/Time Holidays Trigger Events log SmartLoop control panel	<p>Name Street/Road City Installation code Telephone number SIM number Note Date of board Date of last change</p>	<p>Solution identification date</p> <p>The first time a solution is saved, a window will appear requesting all the above-mentioned details. The entered data can be edited at any time.</p>
Zones Cause/Effect Timers		<p>In the case of a previously saved solution, an image will be shown alongside the above-mentioned data. This image can be overwritten.</p>
Front panel	<p>Delete image</p>	<p>Button to delete the loaded image.</p>
SmartLetUSSee/LED		<p>These buttons allow you to read/write data to/from the control panel.</p> <p>Right click on any part of the window to open a menu which will allow you to carry out read/write operations from/to the control panel.</p>
Power supply		<p>This button signal coincident zones.</p> <p>A window containing a list of links, zone groups, which belong to different control panels, which are defined as "coincident" zones.</p> <p>In order to establish coincident zones, first select the link from the list on the left then press the New button. A list will appear on the right where you can specify the control panel, among those configured, and the zone.</p> <p>This window allows you to delete any multiple zones and read/write the data from/to the control panel.</p>
Loop 1		<p>The print button (an additional button to those usually available) allows you to print an entire file or only specific sections. The print preview window must be confirmed before the printout can start.</p>
Loop 2		<p>This button generates a file which allows the current solution to be used by supervisory software such as SmartLook and WinMag.</p>
NAC outputs	<p>SmartLoop models</p>	
RS485 BUS	<p>The various models in the SmartLoop control panel series are represented by icons on the bottom part of the window. Double click on the required icon to add the respective control panel to the installation solution you are working on.</p>	
SmartLoop/PRN		
SmartLetUSSee/LCD		
Extinguisher		
Power stations		
SmartLoop/NET		
SmartLoop/INOUT		
SmartLoop/PSTN		
SmartLAN		
SmartLoop/2L		
Loop 3		
Loop 4		

Date/Time 7-2

Parts of the system	Programming section			
	Group	Option	Note	
<ul style="list-style-type: none"> SmartLoop System Date/Time Holidays Trigger Events log SmartLoop control panel 	Date/Time	System time-keeper panel	Selection menu for the control panel (to be selected from those in the HorNet network) which will assign its date/time to the entire system.	
		Date/Time	Editable fields for the date and time of the system. Both of these fields can assume the date and time of the computer you are using by means of the respective button.	
	Date format	Three date formats are available.		(dd/mm/yy, mm/dd/yy, yy/mm/dd)
	Daylight Saving Time	You can choose the Daylight Saving Time changeover mode		
		Never		
		Automatic	A selection menu allows you to choose the time of day when the automatic DST changeover will occur. If this option is enabled, you can define the hour of the changeover ("Hour start/end").	
	User defined list	The available field allows you to program several dates and times for the changeover format.		

Holidays 7-3

Parts of the system	Programming section		
	Option		Note
<ul style="list-style-type: none"> SmartLoop System Date/Time Holidays Trigger Events log SmartLoop control panel 	The software provides a table which allows you to program holidays. Each line on the table corresponds to a holiday and each column corresponds to a parameter of each holiday. Click on any line or section of the table to edit the contents.		
		Button to add the holidays by means of a guided procedure.	
		Button to delete the selected holiday.	
	Day of the week	Any, Sunday, ..., Saturday	
	Day of the month	Any, 1, ..., 31	
	Month	Any, January, ..., December	
	Year	Any, 2001, ...	
	Time	This is the length of the respective holiday. The entered value must be more than "0" otherwise the holiday will be invalid.	

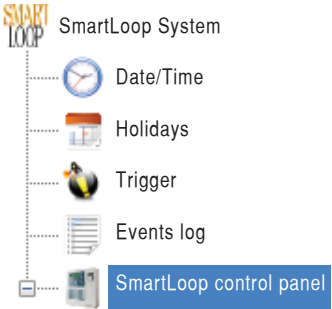
Trigger 7-4

Parts of the system	Programming section		
	<p>This section allows you to program the event triggers (i.e. the automatic actions which occur in pre-defined situations). You can define the causes of trigger actions (activation or restoral of an event) and their effects (activation or restoral of an output).</p> <p>The effects of a trigger action will remain active until another trigger action occurs, or until the control panel rearms.</p> <p>The programmed triggers are arranged on an easy to view table and can be verified by clicking on the Verify Triggers button.</p> <p>Click on any line or section of the table to edit the contents.</p>		
	Option		
	<p>Verify Triggers</p>	<p>Button to verify all the programmed triggers. The icon represents the activation of the respective event or output and the icon represents its restoral.</p>	
		<p>Button to add a trigger action via a window where you can set the following parameters.</p>	
		<p>Button to delete the selected trigger.</p>	
	<p>Description</p>	<p>Editable field is for the trigger description.</p>	
	<p>Event</p>	<p>You can select an event (from the selection menu) which will activates the trigger, and also indicate whether the trigger will activate or restore the selected event.</p> <p>If you select "Customized event", the check boxes will provide a series of events listed in order of importance.</p>	
	<p>Control panel</p>	<p>Check box for the association of the previously-mentioned event to one of the control panels in the configuration.</p>	
	<p>Zones</p>	<p>By means of a check box, you can select which control panel zones will be involved when the selected event occurs.</p> <p>You can select all the zones ("Any") or specific zones by means of the check boxes.</p>	
	<p>Loop</p>	<p>By means of a check box, you can select which control panel loops will be involved when the selected event occurs.</p> <p>You can select all the loops ("Any") or a specific loop. In the latter case, you can also select specific points by means of the check boxes. If you do not select any points, the entire loop will be involved in the event in question.</p>	
<p>Output</p>	<p>Section for the selection of the output which will be activated by the trigger.</p> <p>By means of the check box menu, you can select the control panel and loop the output belongs to and, by means of an Icon window, you can also select the output.</p> <p>Finally, you can indicate whether the trigger action will activate or restore the output in question.</p>		








Events log 7-5


Parts of the system	Programming section		
	<p>This section allows you to view all the events saved to the control panel Log. The lines on the table show the individual events and the columns show the following categories.</p> <p>There is a check box above the table which allows you to filter the events log in accordance with the number of configured control panels.</p>		
	Option		
	<p>N.</p>	<p>Number which indicates the chronological order of the events in the log.</p>	
	<p>Date / Time / Day</p>	<p>Date, time and day of the week of the event.</p>	
	<p>Event type</p>	<p>Event classification</p>	
	<p>Control panel name</p>	<p>Control panel involved in the event</p>	
	<p>Identifier 1/2 (Id)</p>	<p>Event identifier details</p>	
	<p>Loop</p>	<p>Control panel loop involved in the event</p>	
	<p>Point</p>	<p>Control panel loop point involved in the event</p>	

SmartLoop control panel 7-6








Parts of the system	Programming section		
 <p>SmartLoop System</p> <ul style="list-style-type: none"> Date/Time Holidays Trigger Events log SmartLoop control panel 	<p>When you select a SmartLoop control panel from the installation tree, a graphic map appears which represents the control panel layout. The layout illustrates the components in the system configuration. Clicking on any of the components directly accesses the respective programming section.</p> <p>The section on the bottom part of the window shows the available optional boards (SmartLoop/NET, SmartLoop/INOUT, SmartLoop/PSTN, SmartLAN, SmartLoop/2L). To add one or more of these boards to the control panel configuration, simply double-click on the board/s you require.</p>		
	Group	Option	Note
	Description	Editable field for the description of the control panel.	
	Control panel type	Check box to indicate the type of control panel	
Programming data	Stop Silence after (night mode)	Numeric field for the respective time window. If you enable this option, "Silence" commands activated when the system is operating in night mode will be deactivated automatically after the specified time.	Seconds
	Date of maintenance fault event	This editable field allows you to set the date and time of the next maintenance session. If enabled, the control panel will signal a fault event in accordance with this setting. The signalled fault event can be cleared only by entering this menu and setting a later date.	
	Post-reset delay	If this value is set above 0, the system will ignore the input status for the set time after reset operations.	Seconds
	Save output activations	If enabled, this option allows the system to save output activation events to the events memory.	
	Enable condivision cause/effect and zones	If this option is enabled, you will be able to program the control panel activations associated with cause/effect actions with those of other duly enabled SmartLoop control panels in the Hornet network.	
	Generate alarm on second pre-alarm	If enabled, the control panel will generate an alarm in the instant a second pre-alarm occurs on any point in the system, even if the first pre-alarm time is still running.	
	Change access codes	Button to open the access-code window where you can change the code descriptions, PINs and system access levels. Also available are: <ul style="list-style-type: none"> A software access code which must be a valid for installer access to the control panel programming phase (a valid code is set at default). Code lock which, if enabled, saves the programmed codes to a protected memory. Reset operations on the control panel and/or reset to factory operations will not affect the protected codes. 	
	Edit extra texts	Button to open a window containing 10 editable fields for further information relating to the control panel event-signals relating to the events selected below. These texts can be viewed on the display after the corresponding event occurs, by pressing button 1 "info" on the front panel.	Alarm, Fault, Pre-alarm, Early warning, Supervision events

Zones 7-7

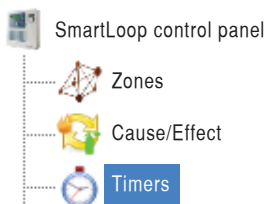

Parts of the system	Programming section										
 SmartLoop control pa 	<p>The section on the right side of the window, next to the Zone option, is divided into three parts:</p> <ul style="list-style-type: none"> • a table (on the left) in which each line corresponds to a zone and each column corresponds to a zone parameter • a section (at the top) with filters for viewing the zones and devices • a section (on the right) divided into different sub-sections selectable by means of tabs for the viewing of the zone devices and parameters: <ul style="list-style-type: none"> • Grid • Icons • Loop connections • Zone settings • Cause/Effect • Zone interactions <p>This window, besides having read and write buttons for the transfer of programming data, also has buttons for direct connections to the control panel (, On/Off Real time) and for zone programming purposes (arranged on the button bar top left).</p> <p>The  buttons opens a window which allows you to start a Walk Test and view the respective results.</p>										
	Group	Option	Note								
	Activation of a direct connection to the control panel (Real-time On) opens a table showing all the control panel zones. The table allows you to view the zone status and all the zone signals. The zone status, indicated by a coloured dot, depends on the signals activated by the zone itself. When the activation of several signals occurs, "Red" status has priority over "Yellow" which in turn has priority over "Orange".										
	<table border="1"> <thead> <tr> <th data-bbox="491 936 687 965">N°, Description</th> <th data-bbox="687 936 1398 965">Zone number and description</th> </tr> </thead> <tbody> <tr> <td data-bbox="491 965 687 1178">Status dot</td> <td data-bbox="687 965 1398 1178"> Red - Activation of Alarm, Double knock, Evacuation, Extinction, Pre-alarm and Sprinkler active signals Yellow - Activation of Fault, Supervision, Stop extinction signals Orange - Activation of Fire door, Early warning, Monitor, Change Class, Voice alarm, Bypass and Test signals Green - No signal activated, zone in standby status </td> </tr> </tbody> </table>	N°, Description	Zone number and description	Status dot	Red - Activation of Alarm, Double knock, Evacuation, Extinction, Pre-alarm and Sprinkler active signals Yellow - Activation of Fault, Supervision, Stop extinction signals Orange - Activation of Fire door, Early warning, Monitor, Change Class, Voice alarm, Bypass and Test signals Green - No signal activated, zone in standby status						
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Zones Table	<table border="1"> <thead> <tr> <th data-bbox="491 1178 687 1216">N°</th> <th data-bbox="687 1178 1398 1216">Zone number</th> </tr> </thead> <tbody> <tr> <td data-bbox="491 1216 687 1254">Description</td> <td data-bbox="687 1216 1398 1254">Editable field for the description/name of the zone</td> </tr> <tr> <td data-bbox="491 1254 687 1294">Devices</td> <td data-bbox="687 1254 1398 1294">Number of devices belonging to the zone</td> </tr> </tbody> </table>	N°	Zone number	Description	Editable field for the description/name of the zone	Devices	Number of devices belonging to the zone				
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Devices	Number of devices belonging to the zone										
<table border="1"> <thead> <tr> <th data-bbox="491 1294 687 1355">Loop</th> <th data-bbox="687 1294 1398 1355">Field for the selection of the loop (from those configured) of the zones you wish to view.</th> </tr> </thead> <tbody> <tr> <td data-bbox="491 1355 687 1393">All</td> <td data-bbox="687 1355 1398 1393">Tick to view all the devices configured in the selected loop.</td> </tr> <tr> <td data-bbox="491 1393 687 1453">Selected zone</td> <td data-bbox="687 1393 1398 1453">Tick to view all the devices configured in the zone selected from the table on the left.</td> </tr> <tr> <td data-bbox="491 1453 687 1514">Free</td> <td data-bbox="687 1453 1398 1514">Tick to view all the devices which are not assigned to any zone.</td> </tr> <tr> <td data-bbox="491 1514 687 1608">Zone + Free</td> <td data-bbox="687 1514 1398 1608">Tick to view all the devices configured in the zone selected from the table on the left, and also all the devices which are not assigned to any zone.</td> </tr> </tbody> </table>	Loop	Field for the selection of the loop (from those configured) of the zones you wish to view.	All	Tick to view all the devices configured in the selected loop.	Selected zone	Tick to view all the devices configured in the zone selected from the table on the left.	Free	Tick to view all the devices which are not assigned to any zone.	Zone + Free	Tick to view all the devices configured in the zone selected from the table on the left, and also all the devices which are not assigned to any zone.	
Loop	Field for the selection of the loop (from those configured) of the zones you wish to view.										
All	Tick to view all the devices configured in the selected loop.										
Selected zone	Tick to view all the devices configured in the zone selected from the table on the left.										
Free	Tick to view all the devices which are not assigned to any zone.										
Zone + Free	Tick to view all the devices configured in the zone selected from the table on the left, and also all the devices which are not assigned to any zone.										
Grid Icons Loop connections	Sections for viewing the selected loop; the viewing methods are described in <i>paragraph 7-12 Loop</i> . These sections allow you to associate the loop devices with the zones by means of the available buttons or by clicking on the right mouse button.										
		Button for the assignment of the zone selected from the list on the left to the points selected from the list on the right.									
		Button for the deletion of the assignment of the zone to the points selected from the list on the right.									

Zone set-tings	Pre-alarm Time	Programming field for the delay between activation of the pre-alarm signal and activation the zone alarm.	Seconds
	Investigation Time	Programming field for the duration of the investigation time. The countdown starts when "INVESTIGATE" button is pressed during pre-alarm status. Pressing this button interrupts the pre-alarm timer and starts the investigation timer.	Seconds
	Alarm verification time for detectors	Programming field for the duration of the alarm verification time. It is applied to detectors with the "Verify alarm" option enabled (refer to <i>paragraph 7-12-2 Devices</i>).	Seconds
	Verification delay	Field for the time the control panel must wait before starting the "Alarm verification time".	Seconds
	Double knock windows	The system will generate a "Double knock" signal only when two or more zone devices generate an alarm (regardless of the time elapsed after the first alarm). This option acts as a protection against false alarms and can be managed separately from the alarm signal. If this option is enabled, double alarms will be considered valid only when they occur within the programmed time (to be specified by the installer).	Minutes
	Evacuation delay after an alarm during day/night mode	If this option is enabled, alarm signals will activate a pre-set delay. When the pre-set delay ends the zone will activate the "Evacuate" signal. This operating method manages two alarm levels: a first level (Alarm) activated automatically by the system and a second level (Evacuation) activated after confirmation by an authorized person or automatically after a further delay.	Seconds Programmable in different ways for day and night mode.
	Close zone fire doors in the event of	Check box for the signal which will activate "Fire doors" signal as well as external causes (inputs, timers or equations). "Never automatic" indicates the signal can be activated only by external causes.	Early warning, Pre-alarm, Alarm, Never automatic
	Activate extinction in the event of	Dropdown box for the signal which will activate the "Extinction" signal, which can also be activated as external causes (inputs, timers, equations, etc.). "Never automatic" indicates the signal can be activated only by external causes.	Alarm, Double knock, Never automatic
	Extinction activation delay	Programming field for the delay to be applied when the previously-mentioned causes occur.	Seconds
	Generate alarm on second pre-alarm	If enabled, the control panel will generate an alarm in the instant a second pre-alarm occurs on any point in the system, even if the first pre-alarm time is still running.	
	Activate "Voice alarm" signal in the event of	Check box for the signal which activates the "Voice alarm" signal as well as external causes (inputs, timers or equations). "Never automatic" indicates the signal can be activated only by external causes.	Alarm, Pre-alarm, Never automatic
Additional info in the event of Alarm/Fault	Dropdown box for the text which will appear on the control panel display in the event of a zone alarm or fault. The texts are described in detail in <i>paragraph 7-6 SmartLoop control panel</i> and can be edited by pressing the  button.		
Cause/Effect	Section illustrating the cause/effect actions associated with the zone selected from the table on the left.		
Zone inter-actions	This section allows you to programmed the activation of Alarm, Pre-alarm and Evacuation signals of loop zones in relation to the activation of the Alarm or Evacuation signals of a specifically selected zone.		
	In the event of Zone Alarm/ Evacuation:	Box containing the zones and signals which will activate in the event of Alarm/Evacuation on the zone selected on the left.	
	Add	Button to open a window where you can select the influenced zones. The possible activation signals for these zones are: Alarm, Pre-alarm, Evacuation.	
	Delete	Button to cancel the activation of the influenced zone selected in the box.	

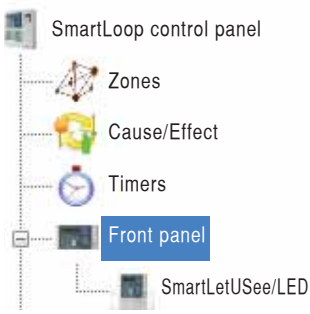


Cause/Effect 7-8

Parts of the system	Programming section		
 SmartLoop control panel  Zones  Cause/Effect	Programming section for the “cause/effect” actions. This section instructs the control panel to carry out a specific action (e.g. activation of a signal) when processing a cause (signal already activated). The system will display a table containing a list of all the programmed cause/effect actions. Click on any line or section of the table to edit the contents.		
	Group	Option	Note
		Activation of the direct connection to the control panel (Real-time On) accesses a table showing all the cause/effect settings. If the line corresponding to the cause/effect action is white (not grey) it means the cause/effect action is ongoing.	
	Only active	Check box to filter the visualization of non-active cause/effect actions.	
Cause/effect list		Button column for the activation (🔴) or deactivation (⚪) of the relative cause/effect action.	
	Description	Editable field for the description of the cause/effect action.	
		Button to add a cause/effect action by means of the respective window, described below.	
		Button to delete the selected cause/effect action.	
Cause/Effect window	Description	Editable field for the description of the cause/effect action.	
	Delayed implementation of effects by a cause	This is the delay the control panel applies before implementing the programmed effect action after verification of the respective cause.	Seconds
	Duration of effects	The duration of the activated effects can be programmed to be the same as the causes (“Follow causes”), or can be programmed with a specific duration (“Single pulse”), the latter must be indicated in the following field.	Seconds (if “Single pulse”)
	Complete activation time	If this option is enabled, the duration of the effect will be the full specific duration of “Single pulse”.	
	Enable	Option which enables/disables the cause/effect action.	
	Actions on activation/deactivation	Options which impose “Day” or “Night” operating mode on the control panel after the activation/deactivation of the cause/effect action.	Switch to DAY/NIGHT mode
	Cause	Box containing a list of the programmed causes. Double-click to access a window where you can select the signals, zones and loops involved in the causes.	
	Effect	Box containing a list of the programmed effects. Double-click to access a window where you can select the signals, zones, NAC outputs and the expansions involved in the effects. The “Status” parameter allows you to indicate whether the selected signals are to be activated or inhibited for the entire duration of the programmed effect.	
	Equation	Button to open a window for the logic combination of several causes.	

Timers 7-9

Parts of the system	Programming section		
	<p>The timers window provides a table containing all the available times and, on the right of the table, a section which shows the parameters of the selected timer.</p> <p>Click on any line or section of the table to edit the contents. In particular, by clicking-on the first column (Enable) it is possible to enable (ON) or disable (OFF) the corresponding timer.</p>		
	Group	Option	Note
		<p>Activation of a direct connection to the control panel (Real-time On) accesses a list of pre-set timers, represented by icons.</p> <p>Each icon is marked by a colour which indicates its status:</p> <ul style="list-style-type: none"> • Grey- timer disabled • Green- timer enabled • Red- timer enabled and running 	
	<p>Timeframe 1 / 2</p>	<p>This sub-section allows you to select the "ON" and "OFF" times of the selected timer.</p> <p>If you do not wish to specify a timeframe, leave this space empty.</p>	
	<p>Date</p>	<p>This field allows you to select the day/month/year when the selected timer must activate.</p>	<p>Day / Month / Year</p>
	<p>Days of the week</p>	<p>This field allows you to select the day when the selected timer must activate.</p> <p>If you require the timer to activate on days defined as holidays, you must select the "Holidays" option.</p> <p>If you do not require the timer to activate on days defined as holidays, you must select the "NO Holidays" option.</p> <p>This section is valid only when the programming fields in the Date section are programmed as "Any".</p>	<p>Sunday / ... / Holidays / NO Holidays</p>
	<p>Actions on activation/deactivation</p>	<p>Options which impose "Day" or "Night" operating mode on the control panel after the activation/deactivation of the timer.</p>	<p>Switch to DAY/NIGHT mode</p>

Front panel 7-10

Parts of the system	Programming section		
	<p>In this section SmartLeague provides a replica of the SmartLoop control panel which allows you to work on the system from remote locations.</p>		
	Group	Option	Note
		<p>Activation of a direct connection to the control panel (Real-time On) allows SmartLeague to provide a replica control panel with a display, signalling LEDs and buttons.</p> <p>The display shows the same strings (written information) as the real display, the replica LEDs provide the same visual signals as the real LEDs, and the replica buttons allow the user to operate on the system as if using the real buttons on the control panel.</p>	
		<p>Button to activate/deactivate an audible feedback signal (beep) on the computer which simulates the audible signal emitted by the control panel when the keys are pressed.</p>	
	<p>Monitor signal visualization mode</p>	<p>Dropdown box for the selection of the visualization mode of the Monitor active signals on the selected control panel.</p>	<p>Silent, Display, Display + buzzer</p>
	<p>Programmable LEDs</p>	<p>Click on the box corresponding to the programmable LED to open a window where you can assign the signals which activate the LED.</p> <p>LED activation can be associated with:</p> <ul style="list-style-type: none"> • zone/loop/point signal activation by selecting the zone, loop or point from the respective dropdown box and the required signal type. • activation of a cause/effect action selected from the dropdown box • activation by both 	
	<p>SmartLetUSee/LED</p>	<p>If you are working on a SmartLoop 1010/P or 2080/P control panel, the system tree on the left will show the SmartLetUSee/LED option, which allows you to program the LEDs on the lower part of the frontplate.</p> <p>Each of the 48 LEDs can be programmed as per the instructions described for the 3 LEDs on the user interface.</p>	

Power supply 7-11

Parts of the system	Programming section		
	Option	Note	
	Mains failure delay	This is the delay (from 0 to 30 minutes) between detection of a drop in mains voltage and the respective fault signal. This delay avoids the unnecessary signalling of brief black-outs in the mains electricity supply.	2 - 30 min
	Inhibit battery test on mains restoral	This is the time during which the battery efficiency test will be inhibited after mains restoral. This option allows the control panel to suspend the battery efficiency test after mains restoral which, due to the fact that the batteries are recharging, might fail.	0 - 15 seconds
	Standby autonomy	This is the required autonomy for the system in the event of mains failure during stand-by status.	hours
	Alarm autonomy	This is the required autonomy for the system in the event of mains failure during Alarm status after the required Standby autonomy has been completely exhausted.	minutes
	Extra loads in standby	Current absorbed by external loads (loads connected to the AUX and AUX-R outputs) when the control panel is in Standby status.	mA
	Extra loads in alarm	Current absorbed by external loads (loads connected to the AUX and AUX-R outputs) when the control panel Alarm status.	mA
	Battery efficiency factor	Coefficient that represents the battery efficiency status (e.g.: new battery=1).	
	Minimum battery requirements	The Calculate button calculates the minimum battery requirements for the aforementioned performance.	Ah

Loop 7-12

Parts of the system	Programming section
	<p>This section allows you to plan and program the loops connected to the control panel.</p> <p>This section is divided in two windows, positioned one above the other:</p> <ul style="list-style-type: none"> The lower section has three sub-sections, one for each type of loop (Argus, Apollo, Inim), accessible through the tabs on the top left. It contains all the different types of loop devices, identified by icons. To add a device to the selected loop simply double-click on the respective icon. If you are adding an INIM device, a window will open for the physical address (hexadecimal serial number). The device will be added to the main loop line or, if activated, to a T-junction branch (see following). The upper window allows you to view the layout of the loop you are working on and also to access the programming parameters of the loop and its devices. The window is subdivided into a further three sections, accessible through the labels on the top left: <ul style="list-style-type: none"> Grid - provides a table containing the list of devices in the loop, indicating (in rows) each device, its logic address, its description, the respective zone and the device type. Double click on the device to open a window where you can view and program all the device parameters. Right click on the specific device to: <ul style="list-style-type: none"> Delete the selected point Open the device property window. Open the multiple programming window. This window will allow you to program all the common parameters of devices selected via this window simultaneously. Icons - allows quick viewing of all the loop devices. Each device is represented by an icon and accompanied by a description. Double click on the device to open a window where you can view and program all the device parameters. Right click on the specific device to: <ul style="list-style-type: none"> Delete the selected point Open the device property window.

- **Loop connections** (for INIM devices only) - provides the loop wiring diagram layout showing all the devices in the loop. Each device is identified by an icon, logic address and serial number. Double click on the device to open a window where you can view and program all the device parameters.
Right click on the specific device to:
 - Delete the selected point
 - Add multiple points - opens a window where you can indicate the number and physical addresses of duplicates of the selected devices which will be added to the loop undergoing programming.
 - Activate the "T junction" - when activated, the device icon will appear on a red background and any devices added successively will be configured as its "slaves". Therefore, their connections will start from the device with the "T junction" function enabled and not from the line concerned.
 - Change the device serial number/physical address.
 - Select the connected nodes, that is, view the "slave" devices of this point.
- **Parameters** - this section allows you to set up the loop parameters.

Group	Option		Note
Loop parameters - Type	Loop type	Loop type check box	Argus, Apollo, Inim
	Wiring type	Wiring type check box	2 wires, 4 wires
	Maximum number of LED devices ON	Numeric field for the maximum number of LEDs on the loop which can switch on at the same time.	Max. 255
	Maximum number of detector R outputs activated	Numeric field for the maximum number of detector outputs on the loop which can activate at the same time.	Max. 255
	Signal contamination fault on smoke detectors	If enabled, the control panel will signal dust contamination as a fault.	
	Periodic check on open-loop fault restoral	If enabled, in the event of an open-loop, the control panel will run a periodic check to see if the fault has cleared. If the fault is no longer detected, the system will stop the fault signal instantly, instead of when the system rearms.	
	Drive the loop from both ends in the event of an alarm	If enabled, in the event of an alarm, the control panel can drive the loop from both ends (LOOP-O and LOOP-I), in such a way as to make up for any voltage drop caused by the devices in alarm status and/or activated outputs.	
	Interrogate only devices in configuration	If activated, the cyclic interrogation implemented by the control panel will include only the points in the system configuration.	
Loop parameters - Dimensioning	Total cable length	Numeric field for the total cable length of the installation.	metres
	Equally distributed Concentrated at the end of loop Concentrated at the start of loop	Check box to indicate the distribution of points on the loop	
	Minimum required gauge	The Calculate button allows you to obtain the minimum required wire section in accordance with the loop under configuration.	mm ²
Set emergency configuration	Button to open a window where you can set up an emergency configuration, more specifically, a group of devices which will continue to function in the event of a CPU fault on the control panel. You must specify whether each of the enabled loop devices in the emergency configuration must contribute to the alarm, and whether it must activate its own output.		

Loop setting buttons		<p>Activation of a direct connection to the control panel (Real-time On) opens the "Grid" section (loop viewing section) where you can view the status of the loop points.</p> <p>The status of the points, indicated by the colour of the Description column, depends on the signals they have activated. When the activation of several signals occurs, "Red" status has priority over "Yellow" which in turn has priority over "Orange".</p> <ul style="list-style-type: none"> • Red - Activation of Alarm, Double knock, Evacuation, Exinction, Pre-alarm and Sprinkler active signals • Yellow - Activation of Fault, Supervision, Stop extinction signals • Orange - Activation of Fire door, Early warning, Monitor, Change Class, Voice alarm, Bypass and Test signals • Green - No signal activated, zone in standby status
		Button to delete the selected device.
		Button to add multiple points - opens a window where you can indicate the number and physical addresses of duplicates of the selected device which will be added to the loop being programmed.
		Activate the "T junction" - when activated, the device icon will appear on a red background and any devices added successively will be configured as its "slaves". Therefore, their connections will start from the device with the "T junction" function enabled and not from the line concerned.
		Button to change the serial number and logic address of the selected device. If the "Set physical address on insertion" option is enabled, the software will request the serial numbers of the successive devices during the insertion phase.
		Button to open a window where you can read and program all the parameters of the selected device.
		Button for the importation of a loop configuration (using .xml file) previously exported from FireGenius software.
		<p>Button to open a window which will allow you to perform loop analysis operations.</p> <p>The Start analysis button triggers the loop analysis signal which, by means of the loop drive, provides the information relating to the status of loop status and each individual device.</p> <p>The application provides a graphic replica of the loop showing all the loop devices and connections. The response of each interrogated device is indicated by the colour of its icon, as per the status of the points. In the event of an interruption (open loop) any devices which cannot be interrogated will be shown in grey.</p> <p>The Loop drive menu allows you to select the loop analysis mode:</p> <ul style="list-style-type: none"> • Drive O: starts the loop analysis from the loop output terminal (LOOP-O) • Drive I: starts the loop analysis from the loop input terminal (LOOP-I) • Drive both: starts the loop analysis from both terminals
		<p>Button to open a window where you can start and read the analysis results detected by the device sensors.</p> <p>The Test details section allows you to type in information regarding the test results and select the information you require from the analysis:</p> <ul style="list-style-type: none"> • Contamination • Loop voltage • Alarm counter • Real-time smoke level • Real-time temperature level <p>The button allows you to view a table containing the test analysis results.</p> <p>The Save collected data button allows you to save the test results and respective information.</p>
	<p>This button opens a menu which allows you to start the following loop operations:</p> <ul style="list-style-type: none"> • Enroll - this command starts the loop "Enrolling" process • Re-address - this command starts the loop "Re-addressing" process • Update - this command starts a process which allows the software to compare the loop configuration on the PC with that on the control panel, detect any differences and propose the actions to be implemented. • Assign logic addresses - this command is valid only for Enea series devices which writes the logic addresses on the control panel. • Check EEPROM devices - this procedure checks the internal memory of the devices (to be carried out only if requested by INIM technicians) 	

Devices 7-12-1

Double click on any of the loop devices to open a window which allows you to view all the properties of the selected device, change its settings and carry out monitoring.

The various parameters described below do not apply to all devices, therefore, may not apply to the type of device selected.

Group	Option		Note
Device	Physical address	Text field indicating the device ID serial number (requested when the device was added to the loop).	Hexadecimal
	Logic address	Field indicating the address of the device on the loop.	
	Device type	Field indicating the device model and type.	
	Firmware version Date of firmware revision	The View button allows you to view the version and upgrade date of the device firmware.	Connection with the system is necessary
Buttons	OK	Closes and saves any parameter changes.	The solution must be saved otherwise any changes will be lost.
	Wiring diagram	Shows an example wiring diagram for the device.	
	Monitoring	This button opens a window where you can open a monitoring session; refer to <i>paragraph 7-12-2 Device monitoring</i> .	
	Write settings	Button to save all the changes to the device memory.	Connection with the system is necessary
Input	Description	Editable field for the device description.	
	Zone	This programming section provides a list which allows you to select the zone the device belongs to.	
	Activation type	Section for the selection of signals to be activated by devices. Other buttons are available for customized activations, that is to say, for direct signals to the control panel, to its zone, to secondary zones or to all the zones.	
	Direct actions	Section for the selection of statuses which will exercise control panel constraints when the device activates. Some statuses simulate actions on the control panel (e.g.: Investigation, Silence, Reset).	
	Restorable	If this option is enabled, the device will restore to standby when the activating conditions clear.	This option is not valid for Alarm activations.
	Verify alarm	If enabled, the control panel will not generate an alarm when the detector exceeds the programmed threshold, instead it will start the pre-set "Verification Time". If the detector exceeds the threshold while the "Verification Time" is running, the control panel will generate an alarm, if not, it will not generate any kind of signal.	Refer to <i>paragraph 7-7 Zones - Zone parameters</i>
	Early warning	This check box allows you to indicate whether the device has a warning threshold. The device will generate a "Early warning" signal when the detected value exceeds the programmed threshold.	Activation of this option automatically activates the Early warning threshold programming parameters.
	Blink on LED	Check box to enable blinking on the LED of the device connected to the device.	The green LED will blink each time it is polled by the loop.
	Heat sensitivity	Dropdown box for the selection of the operating mode of the heat detector.	A1R, B, A2S, BR
	Smoke sensitivity	Dropdown box for the selection of the smoke alarm value.	0.08 - 0.10 - 0.12 - 0.15 dB/m
Smoke sensibility - night	Dropdown box for the selection of the smoke alarm value when the control panel is operating in "Night" mode.		

Input	Operating mode	Dropdown box for the selection of the operating mode of the heat and smoke detector.	<ul style="list-style-type: none"> Heat or Smoke Heat and Smoke Only heat Only smoke Plus
	Early warning threshold	The threshold bar allows you to select the desired threshold level. Each level corresponds to a pre-determined value detected by the device which must not be exceeded.	The measuring unit levels depend on the type of device.
Output	Blink on remote output LED	Check box to enable blinking on the LED of the repeater connected to the device.	
	Detector alarm repeater	This check box indicates the presence of an alarm repeater connected to the device.	This is required by the software for the loop dimensioning operations.
	Output activation/Signals	<p>This section will allow you to program the signals which will activate the device output; as follows:</p> <ul style="list-style-type: none"> Check box for the signal that will activate the output. Check box for the signal source (control panel, zone or zone group; the zone groups can be accessed through the "secondary zones" section). Activation filter: if you select "Customized activation", this button open a window where you can select the signals and signal sources. Check box to select the control panel statuses which will activate the device output. 	
	Further activations	Section for the addition of further cause/effect actions and trigger actions which activate the output.	
	Output disabled by bypass sounder operations	If this option is selected, the output will be excluded automatically when the "Sounder group" is excluded.	
Advanced settings	Automatic LED	This check box allows you to enable the device to control automatically the LED in accordance with its various events (commands from the control panel are not required).	For example, in the event of an alarm the detector activates the red LED.
	Do not bypass on zone bypass	Check box to enable the device to operate even when the zone it belongs to is bypassed.	
	Do not supervise	If this option is enabled the control panel will not check the integrity of the connection to the remote LED or the EOL resistor.	
Advanced settings / Input	Post-rearm filter	If enabled, the control panel will ignore signalling from the device for a pre-set time after control panel reset operations ("Post-reset delay").	
Advanced settings / Output	Rearm immune	This check box allows you to select whether the output will reset to standby when the control panel rearms.	
	Non-silenceable	This check box allows you to select whether the output can be silenced (deactivated) by means of the "SILENCE" button on the control panel.	
	Inverted	The output is normally active and deactivates when the programmed activation conditions occur.	
	Priority repetition output	If enabled, the device output will activate when the device triggers an alarm. This output has activation priority over the others which must be activated.	
	Type	Classification of output	Bistable, Single pulse, Delayed
	Activation Time	Valid when the output is configured as single pulse or delayed.	seconds For unlimited period, leave the value at "0"

Device monitoring 7-12-2

The monitoring window of the device is identical to the one described for the SmartLight control panel (refer to *paragraph 6-8-2 Device monitoring*).

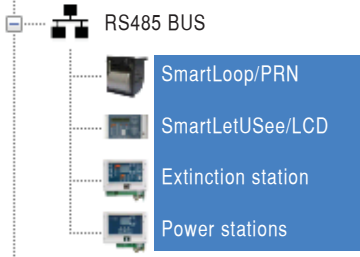
The parameters are viewable only when the SmartLeague equipped computer is connected to the system the device belongs to.

NAC outputs 7-13

Parts of the system	Programming section		
	<p>When you select NAC outputs option from the system tree, a graphic map appears which represents the control panel board. The maps highlight, by means of a red background, the three NAC outputs; click on any one of these to open the programming window.</p>		
	Group	Option	Note
	Description	Editable field for the NAC output description.	
	Zone	List of check boxes for the selection of the zone which activates the NAC output, if duly programmed for zone activation.	
	Output activation/Signals	<p>This section will allow you to program the signals which will activate the device output; as follows:</p> <ul style="list-style-type: none"> • Check box for the signal that will activate the output. • Check box for the signal source (control panel, zone or zone group; the zone groups can be accessed through the "secondary zones" section). • Activation filter: if you select "Customized activation", this button open a window where you can select the signals and signal sources. • Activations generated by control panel conditions: these are other non-selectable signals in the filter described above, which depend on the status of the control panel (investigate, silence, rearm and night mode). 	
	Further activations	Section for the addition of further cause/effect actions and trigger actions which activate the output.	
	Type	Classification of output	Bistable, Monostable
	Activation Time	Valid when the output is single monostable	seconds For unlimited period, leave the value at "0"
	Inverted	The output is normally active and deactivates when the programmed activation conditions occur.	
	Non-silence-able	This check box allows you to select whether the output can be silenced (deactivated) by means of the "SILENCE" button on the control panel.	
	Pattern	Check box list for the selection of an output activation pattern.	
	Patterns	Button to open the window where you can edit the available patterns.	

BUS RS485 7-14

Parts of the system	Programming section		
	<p>When you select the RS485 BUS option from the installation tree, the list of the devices connected to the BUS will appear.</p> <p>The lower section shows the devices which are connectible to the BUS (SmartLoop/PRN, SmartLetUSee/LCD, SmartLetUSee/LED, Extinction Station and Power supply station); simply click on the icon of the respective item to add it to the BUS configuration.</p> <p>This section also allows you to program the printer connected to the RS232 port, whose configuration excludes the addition of the SmartLoop/PRN printer on BUS (the system accepts one printer only).</p> <p>For the programming options of these devices, simply select the respective option from the installation tree on the left.</p>		
	Group	Option	
	SmartLoop/PRN Printer on RS232 port	Printer present	Check box to indicate whether the printer is present or not. If it is present, events generated by the control panel or received from other control panels in the network, and selected in the list below, will be sent to the RS232 port.
		Print events starting from:	List of event categories in order of importance ("pre-alarm is the maximum level"). the control panel prints it own the events and those received from other control panels, starting from the programmed priority level.
		Baud rate, Parity, Stop bit, Data bit, Xon/Xoff, Add Line feed	Operating parameters of the printer connected to the RS232 port.



SmartLetU-See/LCD	<p>The section on the right shows a replica of the repeater frontplate which will allow you to setup the programmable LEDs.</p> <p>The programming method for the repeater LEDs is as described in <i>paragraph 7-10 Front panel</i>.</p> <p>The lower section shows the SmartLetUSee/LED icon. Double-click on the icon to configure the repeater LED connected to the SmartLetUSee/LCD.</p>
SmartLetU-See/LED	<p>The programming method for the repeater LEDs is as described in <i>paragraph 7-10 Front panel</i>.</p>
Extinction station	<p>The section on the right shows a replica of the connected extinction station, its terminal board and its two programmable outputs.</p> <p>The programming method for the selected output is as described in <i>paragraph 7-12-1 Devices</i>.</p>
Power supply station	<p>The section on the right shows a replica of the connected power-supply station, its terminal board and its three programmable outputs.</p> <p>The programming method for the selected output is as described in <i>paragraph 7-12-1 Devices</i>.</p>

SmartLoop/Net 7-15

Parts of the system	Programming section		
	Option	Note	
	Control panel address in the network	<p>This is the address assigned to the control panel inside the HorNet network.</p> <p>The address 00 will automatically exclude the control panel from the network.</p>	1 - 100
	Apply	<p>Button to configure the address on the software. SmartLeague will refer to the control panel using the specified address.</p>	
	Write	<p>Button to write (or change) the address on the connected control panel.</p>	
	Send events starting from	<p>List of event categories in order of importance ("pre-alarm is the maximum level"). The control panel will transmit its events to the other control panels in the network, starting from the programmed priority level.</p>	
	Emergency line wiring check	<p>If this option is enabled, the control panel will monitor the integrity of the electrical wiring of the "emergency line" (terminals Alarm-A and Alarm-B on the SmartLoop/NETboard). The "emergency line" is a ring circuit which includes all the control panels and allows the system to pilot eventual alarm conditions even in the event of a microprocessor fault on one or more control panels.</p> <p>If this option is enabled and a wiring fault occurs, the control panel/s will signal a fault.</p>	
	Control panel number	<p>Address of all the control panels in the network.</p>	
	Control panel name	<p>Descriptions of all the control panels in the network.</p>	
	Accept events starting from	<p>List of event categories in order of importance ("pre-alarm is the maximum level"). The control panel will transmit its events to the other control panels in the network, starting from the programmed priority level.</p>	
	Enable Reset commands from remote control panel	<p>The control panel can be reset from other control panels in the network.</p>	
	Enable Silence commands from remote control panel	<p>The control panel can be silenced from other control panels in the network.</p>	

SmartLoop/INOUT 7-16

Parts of the system	Programming section	
	This section will allow you to program the six terminals on the SmartLoop\INOUT board. Clicking-on any of these terminals will open a window containing the parameters of the selected type:	
	Option	
	NAC outputs	This NAC output is identical to the one present at default on the control panel (refer to <i>paragraph 7-13 NAC outputs</i>).
	Input	Supervised input identical to that of the devices connected to the loop (refer to <i>paragraph 7-12-1 Devices</i>).
	Conventional zone	Input for connection in parallel of up to 32 conventional detectors (standby/ alarm). Fault signals on this type of detector are generated by open or short-circuit conditions, whereas alarm status is generated by current absorption. The programming process is similar to that of a supervised input of devices connected to the loop (refer to <i>paragraph 7-12-1 Devices</i>).
	Gas zone	Input for the connection of a gas detector. Early warning and alarm signals on this type of detector are generated by excess of two current absorption thresholds. Early warning signals are always restorable. The programming process is similar to that of a supervised input of devices connected to the loop (refer to <i>paragraph 7-12-1 Devices</i>).

SmartLoop/PSTN 7-17

Parts of the system	Programming section				
	Group	Option		Note	
	Telephone N°	N°	Description		Identification data of the telephone number
		Protocol	This is the reporting protocol. If the number is a digital number, select one of the protocols. If the number is non-digital, select "Voice". "None" indicates that the number in question will not receive any telephone actions. It can be used to temporarily disable the actions to a specific number.		Refer to the control-panel installation manual for the instructions relating to the voice-message recording procedure.
		Account code	This is the code which allows the Alarm Receiving Centre to identify the system.		
	Actions	Section showing the list of actions (relations between cause/effect actions) which activate the telephone calls. Double-click on any of the cause/effect actions to open a window where you can program the parameters described below:			
		Description	This editable field is for the description of the Action.		
		Call all voice numbers	If this option is enabled, the system will call the two or more numbers associated with the event (to send voice messages) until all the numbers have successfully received the message. If this option is not enabled, the system will call the number until one of the numbers has received the message.		
		Call all digital numbers	Similar to "Call all voice numbers", but for digital numbers.		
	Action queued on TCP/IP	In the event of activation, the action will also be sent to the SmartLAN board. The respective programming page allows you to define the actions to be undertaken (e-mail, communications via TCP/IP, etc.).			

Actions	Cause	Box containing a list of the programmed causes. Double click to access a window where you can select the type of activation: <ul style="list-style-type: none"> Event activation: select the events, zones, loop and control panels which activate/reset the call. Logic activation: a combination of signals will activate the call (as per the activations of the NAC outputs in <i>paragraph 7-13 NAC outputs</i>). 	
	Effect	Box listing the programmed effects, that is to say, the calls generated automatically by the control panel in response to the above-listed causes. Double click to access a window containing a list of all the telephone numbers. You can select the telephone numbers the call will be sent to. You can indicate the call parameters in the section alongside: <ul style="list-style-type: none"> Message class: for CONTACT-ID telephone numbers only Event code: for digital calls only Voice messages: for voice calls only - to be selected from the 8 available 	
Options	Dialing type	Dialing type to be implemented on the line.	<ul style="list-style-type: none"> DTMF Pulse
	Check backup telephone line	If this option is enabled, the communicator will check for the presence of the PSTN backup line connected to the "L.B." terminals.	
	Dial tone check	If this option is enabled, the communicator will check for the presence of the dial tone before dialing.	
	Press "#" key to confirm successful calls	If this option is enabled, the control panel will not consider the telephone call successful until the recipient presses the "#" key, even if the message has been played and listened to.	
	Send voice message after	The communicator will play the voice message in accordance with the selected playback mode: <ul style="list-style-type: none"> Answer - the voice message will start as soon as the call is picked up and any audible signal is detected Dial - the voice message will start soon after the device dials the telephone number Delay - the voice message will start after a pre-set delay (see below) which starts after dialing the telephone number 	
Voice message delay	After dialling the telephone number, the communicator will delay the voice message transmission for the indicated time.	seconds	
Emergency calls	This section shows the telephone numbers which the SmartLoop/PSTN board must call in the event of a fault condition on the control panel CPU. Primarily: <ul style="list-style-type: none"> Control panel lost - this section is for the numbers to be called in the event of a CPU fault. Alarm during emergency - this section is for the numbers to be called in the event of a CPU fault when a system-alarm condition has also been detected. 		
	N°	This represents the order in which the calls will be made.	
	Telephone number	This check box allows you to select the telephone number.	
	Protocol	This is the protocol of the telephone number.	
	Account code Event code	These are the parameters of the indicated protocol.	
	1, 2, ..., 8	If the respective telephone number is a voice number, selection of this check box will enable the playback of the voice-messages with the corresponding numbers.	

SmartLAN 7-18

Parts of the system	Programming section		
	Group	Option	
SmartLoop control panel Zones Cause/Effect Timers Front panel SmartLetUSee/LED Power supply Loop 1 Loop 2 NAC outputs RS485 BUS SmartLoop/NET SmartLoop/INOUT SmartLoop/PSTN SmartLAN	Board parameters	IP Address	Static IP address of the control panel
		Netmask	Ask the network administrator or provider about Internet service.
		Gateway	
		DNS	
	Connection parameters	Outgoing post server	Server name for outgoing emails (e.g.: "smtp. <nameServer>.com").
		Port	Server port for outgoing post. 25 at default.
		E-mail	The e-mail address of the sender, used as the control panel identifier. Used only to recognize the sender and not to manage replies, therefore, it can be a fictitious name.
		Request authentication	Option to be activated when the post server in use requests authentication from the account sending the emails. If activated, it will be necessary to indicate the user name and password.
		Timeout	Selection field for the maximum time (from 60 to 300 seconds) within which the control panel must send an email to the post server.
		SSL	Selection field for the SSL cryptography protocol for mail sending.
		SD card	Two buttons are provided to enable and disable the SD card.
		IP address	IP addresses and their respective reporting protocols which the SmartLAN board can use to communicate events.
	Action queued on TCP/IP	Action list section showing the actions (cause/effect relationships programmed in the Actions section) with the "Action queued on TCP/IP" option enabled. Double-click each of these to setup an: <ul style="list-style-type: none"> • e-mail: subject, attachment and body of the e-mail to be sent when the action occurs • e-mail addresses: list of contact addresses the e-mail is to be sent to • IP addresses: list of IP addresses the data packets are to be sent to when the action occurs 	
	Dynamic DNS	If a dynamic public IP address is available, you may find it useful to use a domain name which will allow you to trace your SmartLAN device at all times. SmartLeague supports the service offered by: <ul style="list-style-type: none"> • dyndns.org • freedns.afraid.org • no-ip.com By registering at one of these addresses, you will obtain the access data required in this programming section: <ul style="list-style-type: none"> • Domain • User name • Password • Update every - interval (expressed in seconds) applied by the SmartLAN when upgrading the association of the selected domain with the public IP address. 	
	Actions	Section showing the list of actions (relations between cause/effect actions) which activate the telephone calls. Double click on any of these cause/effect actions to open a window where you can program the parameters described below: <i>paragraph 7-15 SmartLoop/Net</i> . To send e-mails and/or data packets, it is necessary to enable the "Action queued on TCP/IP" option.	

SmartLoop/2L 7-19

Parts of the system	Programming section
SmartLoop control panel <ul style="list-style-type: none"> Zones Cause/Effect Timers Front panel <ul style="list-style-type: none"> SmartLetUSee/LED Power supply Loop 1 Loop 2 NAC outputs RS485 BUS SmartLoop/NET SmartLoop/INOUT SmartLoop/PSTN SmartLAN SmartLoop/2L <ul style="list-style-type: none"> Loop 3 Loop 4 	<p>This section allows you not only to carry out programming, but also to plan the layout of the loops connected to the SmartLoop/2L board. This can be done by clicking directly on the loop option or by first clicking on the SmartLoop/2L option and then on the respective loop terminal.</p> <p>The loop visualization mode, project layout and programming methods are the same as those for loops which are directly connected to the motherboard, as described in <i>paragraph 7-12 Loop</i>.</p>

Chapter 8


PROGRAMMING SMARTLINE CONTROL PANEL

SmartLine control panel 8-1

Parts of the system	Programming section			
	Group	Option	Note	
	Date/Time	Date/Time	Editable field for the date and time A button is available which accesses the synchronization process of the control panel clock.	
		Date format	Three date formats are available.	(dd/mm/yy, mm/dd/yy, yy/mm/dd)
		Local date/time	This button loads the current date and time of the PC in use to the "Date/Time" field.	
		Write date/time	This button writes only the settings of this specific group on the control panel.	
	Daylight Saving Time	Change to DST	This option enables changeover to Daylight Saving Time and back.	
		Time of changeover	This selection menu allows you to set the hour of the automatic changeover.	
	Maintenance options	Maintenance date	This editable field allows you to set the date and time of the next maintenance session. The control panel will signal a fault event in accordance with this setting. The signalled fault event can be cleared by entering this menu and setting a later date.	
	Other options	Silence time in night mode	This is the length of time the control panel will hold silence status during night mode, starting from the moment the "SILENCE" button is pressed.	from 0 to 600 seconds
		Post-rearm assessment time	Time, at the end of a reset process, during which the lines will not be evaluated, in order to allow its connected devices to restore to standby status.	from 1 to 5 seconds
		Reset time	Time during which the power supply voltage to the detectors will be removed, in order to force them back to standby status after an alarm.	from 2 to 10 seconds
		Log events on bypassed zones	If this option is selected, the control panel will save any status changes on bypassed zones to the events log.	
		Count pre-alarm time during silence status	If this option is selected, the pre-alarm time will not be interrupted when silence operations are carried out at the control panel. Once the pre-alarm time expires, the control panel will quit silence status and go into alarm status.	
		NAC output Pattern	If this option is enabled, the NAC output will have an activation pattern	Only for FW 2.02 or higher
		Pattern length	The number of selected units (beeps) creates the time pattern. Each unit has a duration of 1 second.	
		NAC output pattern	Pattern diagram which allows you to activate/deactivate each individual unit.	

Other options	Show countdown	In the event of a pre-extinction condition, the running pre-extinction time will be shown on the display.	seconds
	Output to remote fault and alert signalling and alert devices	This option should be activated when the control panel is connected to a telephone communicator with fault-communication tasks.	
View GAS level sensed by detectors	On the display of:	Programming section for the selection of the displays (on the control panel or repeaters in the configuration) where you can view in real-time the level of gas when the station is in standby status.	This function can be used when the I/O lines are configured as 4-20mA gas outputs.
	Relating to zones:	Programming section for the selection of the zones relating to the I/O lines coming from the gas detectors shown on the display.	
Verify control panel lock code	Button to test whether it is possible or not to read/write the control panel parameters: <ul style="list-style-type: none"> If the control panel is "unlocked", you will be able to write/read programming data to/from the control panel. The password field allows you to enter an alphanumeric lock-code of your choice that will lock programming as soon as you press the Lock panel button. If the control panel is "locked", you will not be able to write/read programming data to/from the control panel until you enter the "lock" code and press the Unlock panel button. 		

Power supply 8-2

Parts of the system	Programming section		
Group	Option	Note	
 SmartLine control p Power supply	Mains failure delay	This is the delay (from 0 to 30 minutes) between detection of a drop in mains voltage and the respective fault signal. This delay avoids the unnecessary signalling of brief black-outs in the mains electricity supply.	2 - 30 min
	Standby autonomy	This is the autonomy the battery must guarantee in standby mode.	hours
	Alarm autonomy	This is the autonomy the battery must guarantee in alarm mode.	minutes
	Extra loads in standby	Loads, other than the control panel board, connected to the AUX terminals, that the battery must supply during standby status.	mA
	Extra loads in alarm	Loads, other than the control panel board and loads connected to the AUX terminals, that the battery must supply during alarm status.	mA
	Battery efficiency factor	The ratio between the real value and the nominal value of the battery capacity.	
	Minimum battery requirements	The Calculate button calculates the minimum battery requirements for the aforementioned performance.	Ah
Real-time output voltage	The Real-time button allows the control panel to feed back the real-time output voltage.	Volts	
Tutorial for the connection of a thermal probe	Button to view the Thermal Probe connection guide.		

BUS RS485 8-3

Parts of the system	Programming section		
	Group	Option	Note
	Configure as Master	The SmartLine “master” control panel has use of the RS485 BUS where you can install up to 4 SmartLetUSee/LCD-Lite repeaters and two SmartLevel power-supply stations. Once the control panel has been configured as “master”, you can then configure the BUS devices, via the System Layout section, and the power-supply stations outputs. For the programming instructions relating to the power-supply station outputs refer to <i>paragraph 8-7-2 Outputs</i> .	
		Configure as Slave	The SmartLine control panel must be configured as “Slave” in the following cases: <ul style="list-style-type: none"> when it is connected to the BUS of a SmartLoop control panel when it is connected to an Ethernet network by means of a SmartLAN/485 board
	Assign address		Box for the selection of the address of the control panel on the BUS it is connected to.
	Network board configuration	Section for the configuration data of the SmartLAN/485 board in the Ethernet network.	

Holidays 8-4

Parts of the system	Programming section		
	Group	Option	Note
	The software provides a table which allows you to program holidays. Each line on the table corresponds to a holiday and each column corresponds to a parameter of each holiday.		
	Enable	Check box for the enablement of the corresponding holiday.	
	Day / Month / Year	This field allows you to choose the day/month/year of the corresponding holiday.	
	Sunday / ... / Saturday	Check box for the choice of the days of the week of the holiday.	
	Time	Numeric field for the duration of the corresponding holiday. The duration must be higher “1” otherwise the holiday will be invalid.	Days

Timers 8-5

Parts of the system	Programming section			
	Group	Option	Note	
	Enable	Check box - allows you to enable the corresponding timer.		
	Timeframe 1 / 2	This sub-section allows you to select the “Start” and “Stop” times of the selected timer. If you do not wish to specify a timeframe, leave the value at “00:00”.		
	Date	This field allows you to select the day/month/year when the selected timer must activate. If you do not wish to specify a value, leave the setting as “any”.		
	Days	This field allows you to select the day when the selected timer must activate. If you require the timer to activate on days defined as holidays, you must select the “Holidays” option. If you do not require the timer to activate on days defined as holidays, you must select the “NO Holidays” option.	Sunday / ... / Holidays / NO Holidays	
	Actions	Switch to DAY mode	On timer activation, the control panel will switch to day mode, however, it can be switched back to night mode by a timer or manually from the panel.	
		Switch to NIGHT mode	On timer activation, the control panel will switch to night mode, however, it can be switched back to day mode by another timer or manually from the panel.	

Actions	Force Night mode	On timer activation, the control panel will switch to night mode but it cannot be switched back to day mode while the timer is running. However, on expiration of the timer, the control can be switched back to day mode by another timer or manually from the panel.	
	Bypass zone	Check box for the exclusion (bypassing) of the selected zones on activation of the timer.	
	Unbypass zone	Check box for the inclusion (unbypassing) of the selected zones on activation of the timer.	
	Bypass verification for zones	Check box for the exclusion of the verification option in the selected zones.	
Zones	Selection fields for the zones the programmed "Actions" will have an effect on. If you select the "Other zones" field, a window will open where you can select the zones provided by the expansion boards.		

Equations 8-6

Parts of the system	Programming section			
	<p>A list of the available equations is shown on the left-hand side of the Programming section; each equation can be renamed.</p> <p>Before programming the parameters, you must first select the equation. The formula of the selected equation will appear in the box on the bottom right of the window.</p>			
	Group	Option		Note
	Operands	Zones	This section allows you to select a zone and the relative activation signals. In this case, zone "0" indicates any zone.	Each operand provides an Add button for its insertion in the equation formula.
		Equations	This section allows you to select an equation to add to the equation you are editing.	
		Timers	This section allows you to choose a timer from those available.	
		Constant	Numeric field for the a numeric constant with a maximum of 3 digits.	
	Operators	A button is available for each operator for the insertion of the equation in the formula.		
	Validation time	Minimum time the equation must remain real.	Seconds	
	Check equation	Button to start a check on the equation formula.		
	Clear	Button to delete the equation formula		

Zones 8-7

Parts of the system	Programming section			
	<p>During the programming phase of each zone, it is necessary to select the required option from the system tree on the left, regardless of whether it is a control panel zone or expansion board zone.</p> <p>The zone will be configured as an input line whose operating mode is to be selected. For the programming instructions relating to inputs refer to <i>paragraph 8-7-1 Input line</i>.</p> <p>Each zone has use of an "I/O" line which can be configured as an open-collector output -- whose causes of activation can be defined during the system configuration phase; or, as an input line separate from the zone -- which can be configured as a fire alarm line, Gas detection line, etc.</p> <p>If you select the Expansion board option, the board installation guide will be shown.</p>			
	Group	Option		
	Zone description	This is the editable filed for the zone description.		
	I/O Line	Alarm repetition zone	If this option is enabled, the I/O line will be configured as an output which repeats the alarms signals of the relative zone. This function excludes the possibility of any further programming to this line.	
		Program	Button to open a window for the I/O line programming procedure. If you wish to program the line as an input, refer to <i>paragraph 8-7-1 Input line</i> . If you wish to program the line as an output, refer to <i>paragraph 8-7-2 Outputs</i> .	

Input line 8-7-1

Group	Option	Note
Pre-alarm	Pre-alarm	This is the duration of the zone pre-alarm signal. The zone will trigger an alarm when the set time expires.
	Verify	This is the duration of the investigation time, starting from when the "INVESTIGATE" during pre-alarm status. Pressing this button interrupts the pre-alarm timer and starts the investigation timer.
	Investigation	If you are programming this option for the detection line (refer to the following options), it refers to the time within which, in order to be considered valid, an alarm condition must occur again after the detector has been activated and reset automatically by the control panel.
	Filter	If you select the "Filtered" option when programming the zone detection line or I/O line, this is the minimum time, expressed in seconds, an alarm or fault must be present on the line before the control panel will consider it valid.
Detection line I/O Line	Operating mode	Dropdown menu for the selection of the various activation types which can be assigned to the detection line. <ul style="list-style-type: none"> • Zone: fire alarm, restorable fire alarm, Sprinkler, Supervision, Gas relay, Extinction • I/O line: fire alarm, Gas 4-20 mA, Bypass, Change class, Sprinkler, Activation, Extinction The respective sub-options will appear below in the appropriate sections.
	Advanced	Section for the adjustment of the thresholds of the detection line. The thresholds can be modified via the number boxes or by using the bar which indicates the levels by means of colours: Click on the Write button to set the changes on the zone. The Default button restores the values to factory settings.
	Wiring	Button to open a window showing an example of a line wiring diagram.
Options / Signals	Detect Loss	If this function is assigned to the line, the supply voltage will be inverted periodically for several mS in order to check that all the configured detectors are present on the line. This function can be assigned only when the wiring has been completed using diode bases and diode/capacitor termination.
	Detect Call points	If this option is enabled, the line will discriminate between alarms generated by call points and detector. Alarms generated by call points will override the pre-alarm time and activate instant alarms.
	Short=Active	If this option is enabled, short-circuits on the line will activate the line itself (depending on the type of line: Alarm, Supervision, etc.).
	Night mode Pre-alarm	If this option is enabled, the line will signal pre-alarm conditions even when the system is operating in Night Mode (the Pre-alarm feature must also be enabled).
	Resettable Alarm	If this option is enabled, alarm signalling will stop when the value drops below the alarm value, otherwise signalling will continue until the system is rearmed.
	Verify alarm	If this option is enabled, alarm status on one of the detectors on the line will cause the control panel to shut down the line and, by so doing, the detector in question. Once the reset time expires, the control panel will powerup the line again. However, the control panel will not consider the alarm valid unless the detector generates another alarm within the previously-programmed "Verify" time.
	Pre-alarm	If this option is enabled, the control will signal pre-alarm for the pre-set time when the line triggers an alarm.
	Filtered	If this option is enabled, alarms and fault conditions on the line will not be activated unless they persist for a period longer than the previously-programmed "Filter" time of the zone.
	Bypass alarm	If this option is enabled, the line will be activated with no alarm signalling; useful for CO gas detection in parking areas.
Invert alarm-standby thresholds	If this option is enabled, the alarm and standby thresholds for the normally closed contacts will be inverted.	

from 0 to 600 seconds
The signal times of the "I/O" line is the same as the respective zone.

- yellow - fault/tamper
- green - standby
- red - early warning
- orange - alarm

Option valid for Fire alarm, Resettable Fire alarm.

Option valid for Fire alarm, Resettable Fire alarm. Sprinkler, Supervision, Extinction.

Option valid for Fire alarm, Resettable Fire alarm. Sprinkler, Fire alarm (I/O), Sprinkler (I/O).

Option valid for Gas relay, Gas 4-20 mA (I/O).

Option valid for Fire alarm, Resettable Fire alarm.

Option valid for Fire alarm, Resettable Fire alarm. Sprinkler, Extinction, Fire alarm (I/O), Sprinkler (I/O).

Option valid for Fire alarm, Resettable Fire alarm. Sprinkler, Supervision, Gas relay, Extinction, Fire alarm (I/O), Gas 4-20 mA (I/O), Bypass (I/O), Class change(I/O), Sprinkler (I/O), Activation (I/O), Extinction (I/O).

Option valid for Gas relay, Gas 4-20 mA (I/O).

Option valid for Extinction (I/O)

View real-time value	Check box to allow viewing of the real-time gas level detected by the I/O line.	<ul style="list-style-type: none"> Graph bar only LEL PPM 500 bottom of scale (MAX) PPM 2000 bottom of scale (MAX)
Zones	Check box list for the selection of the zones where the Bypass/Change class signal will be enabled.	
NAC outputs	If this option is enabled, the NAC output will be activated by the Change class signal.	
Actions	Check box list for the selection of the control panel commands activated by the "Activation" input.	<ul style="list-style-type: none"> Reset Investigation Silence Toggle Day/Night mode Force night mode CP Alarm
Extinction command	If the zone is programmed as an "Extinction" zone, a box list will allow you to assign the various function commands to the extinction board.	<ul style="list-style-type: none"> Bypass extinction Bypass manual extinction Bypass automatic extinction Confirm extinction Manual extinction Stop extinction

Outputs 8-7-2

Group	Option	Note	
Operating mode	Selection menu for the signals which will activate the output. The lower part of the window shows the appropriate sub-sections of the selected items; the sub-sections will allow you to specify the respective operating modes:	<ul style="list-style-type: none"> Zone signals Disablements Extinction signals Control panel status Timers Equations Gas 	
	Signals / Timers / Equations	Section for the selection of one or more signals/timers/ equations which, in the event of their occurrence (individually or together), will activate the output.	
	Zones	Section for the selection of zones of origin of the selected signals. You can choose the number of zones involved even further, as follows: <ul style="list-style-type: none"> Any of the configured zones At least one of the indicated zones At least two of the indicated zones All the indicated zones 	
	Output pattern	If this option is enabled, the system will apply the pattern set for the SmartLine Panel, Other options.	Option valid for NAC output
	Wiring	Button to open a window showing an example of an output wiring diagram.	
Output mode	Output type	Selection menu for the operating mode of the output. If you select "Pulse", you must also set the respective duration.	Duration from 0 to 600 seconds
	Silenceable	This check box allows you to select whether the output can be silenced (deactivated) by means of the "SILENCE" button on the control panel.	
	Inverted	The output is normally active and deactivates when the programmed activation conditions occur.	
	Level 1 (%)	Selection field of the LIE percentage (and corresponding value in mA) for the activation of the output. This percentage is the average reading sensed by the selected zone.	This option is available only for zones set up as "Gas outputs".
	PWM output Level 1 (%) Level 2 (%)	If selected, the output will operate as a PWM output (Pulse Width Modulation) with an interval equal to 0.5 s and a Duty Cycle equal to: <ul style="list-style-type: none"> 0% - if the average smoke reading is < 0 = "Level 1" setting 100%, if the average smoke reading is more or equal to the "Level 2" setting proportional to the average reading, if it is between the two set levels 	This option is available only for the first four zones on the motherboard if they are programmed as "Gas outputs".

Programmable outputs 8-8

Parts of the system	Programming section		
	Selection of the Programmable outputs option will allow you to view the connection methods of the unused DIALER, ALARM NAC and AUX outputs. During the programming phase of each output, it is necessary to select the required option from the system tree on the left, regardless of whether it is a control panel zone or expansion board zone.		
	Group	Option	Note
	DIALER	Two output connection wiring diagrams will be shown: one with INIM's SmartLinkAdv communicator and the other with no communicator. Dropdown box for the selection of the activation delay the DIALER will apply after receiving a zone alarm signal. If the alarm is triggered by a manual call point or an "EVACUATE" button, the output will activate instantly.	from 0 to 600 seconds
	AUX-R	Three operating modes are available for the output, each provided with an example wiring diagram: <ul style="list-style-type: none"> • 24V output - Off during reset • 24V output - Off during zone alarm (a section is provided for the selection of the zones; this operating mode excludes the first) • 24V output - Off during mains failure 	
	RELAY	Refer to <i>paragraph 8-7-2 Outputs</i> for the programming instructions regarding this output.	
	NAC out-puts	Selection of the NAC Outputs option will allow you to view the connection method of the NAC output. If the control panel has expansion boards installed, you will be able to program their NAC outputs; refer to <i>paragraph 8-7-2 Outputs</i> for the programming instructions.	

Events log 8-9

Parts of the system	Programming section		
	The Programming section of the Events log allows you to view all the events saved to the control panel log. The lines on the table show the individual events and the columns show the following categories.		
	Group	Option	Note
	N.	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 / Day	Date, time and day of the week of the event.	
	Event type	Event classification	
	Agent	Parameter relating to further event specification.	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.
Events log from database	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.		

Exinction board 8-10

Parts of the system	Programming section			
	Group	Option	Note	
	Zones	List of available zones (selectable by means of check boxes) which will activate extinction when they go into alarm status.		
	Various	Extinction board programming identification	Field for the progressive number which indicates the number of times changes have been made to the board programming data (in order to provide a history of implemented changes).	
		Duration of re-arm lock after an extinction process	This is the amount of time the control panel will lock for after an extinction process.	Minutes
		Pre-extinction time	Duration of the automatic Pre-extinguish Time , activated by a zone in alarm status.	Seconds
		Manual pre-extinction time	This is the duration of the automatic pre-extinction process activated from a MAN-EXT input, or from an extinction point programmed as a manual extinction input, or enabled from a manual button.	Seconds
		Extinction time	This is the activation time of the solenoid valve, starting from the end of the pre-extinction time. You can select the output type: bistable or pulse.	If you select 'pulse', you will be able to specify the duration in seconds.
		Confirm extinction time	This is the interval period after the activation the solenoid valve output (VALVE) and the first confirmation of gas release.	Seconds
		Gas discharge delay	This is the time which must pass before a second discharge of extinguishant gas is released, in the event that the previous gas discharge is not confirmed.	Seconds
	Activate when	One / Two / All zones in alarm status	This section allows you to select the number of zones which must go into alarm in order to activate the board.	
	PRESS input	Supervision	The activation of the PRESS input indicates a drop in pressure of the extinguishant gas.	
		Confirm by pressure switch	The activation of the PRESS input will indicate that the gas cylinders are empty.	
		Confirm by flow detector	The activation of the PRESS input will signal gas flow intervention.	
	Confirm extinction	Await extinction confirmation from pressure switch	The control panel will receive confirmation of the release of extinguishant gas from the pressure switch.	
		Await extinction confirmation from a flow detector	The control panel will receive confirmation of the release of extinguishant gas from a flow detector.	
		Do not await confirmation	The control panel will not receive confirmation of the release of extinguishant gas from the pressure switch.	
Extinction board installation tutorial	Button to start the extinguishant board installation.			

Chapter 9

PROGRAMMING SMARTLIVING CONTROL PANEL

Keypads 9-1

Parts of the system	Programming section		
<ul style="list-style-type: none"> Keypads Proximity readers Expansions Sounderflashers Nexus SmartLiving System 	The Keypad option, from the system tree on the left, allows you to configure, via the Programming section, all the parameters which are common to all the keypads.		
	Group	Option	
	Keypad parameters	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.
		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.
		Show scenario	The second line on the keypad displays will show the description of the active scenario.
		Message repetitions on voice keypad	This refers to the number of times messages, relating to the events recorded on the keypad, will be played (JOY/MAX keypads only). The playback phase can be stopped by pressing any key.
Press key to end playback		If this option is enabled, message playback can be interrupted solely by pressing a button on the keypad.	

Click on the node of the **Keypads** option to access a list of all the keypads in the system configuration. Select the required keypad to view and program its parameters.

Node	Group	Option	
<ul style="list-style-type: none"> Keypads (2) <ul style="list-style-type: none"> Keyp. 001 (1) Keyp. 002 (2) 	Description	Description/Name of the keypad (to be customized by the installer).	
	Keypad type	Check box for the selection of the keypad type: <ul style="list-style-type: none"> • Keypad with display and keys (Joy, nCode or Concept) • Touch-screen keypad (Alien) • Wirelesskeypad (Aria) 	
	General / Partitions	Section for the selection of the partitions the keypad can operate on.	
	General / Details	Shortcut	You can assign a shortcut type (macro), selectable from those available to each of the function keys (F1 to F12). When programming an Alien touch-screen user interface, positions F1 - F12 refer to the positions in the list available in the "Scenarios" section of the Alien user interface you are working on.
		Shortcut parameter	You must specify a further parameter for each shortcut: <ul style="list-style-type: none"> • Arm/Disarm - this parameter refers to one of the 30 scenarios • Activate output - this parameter involves an output • Deactiv. output - this parameter involves an output • Panic - this parameter will be one of the 15 panic events
	Alien Maps	This section appears only when "Touch-screen" is selected in the keypad type . For the programming instructions relating to the graphic maps refer to <i>Chapter 11 - Graphic map configuration</i> .	
	Monitoring wireless	This section appears only when "Wireless keypad" is selected in the keypad type. Pressing the Start button starts monitoring on the variation of the signal transmitted by the device and background noise detected over time.	

General / Details	Options	<ul style="list-style-type: none"> Requires code - if enabled, the system will ask for user-code entry before activating the shortcut. If the system recognizes the entered user code, it will activate the shortcut command. Code entry in the event security risk - when this option is enabled and the selected shortcut involves a scenario that completely 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 code entry. Requires confirm - if enabled, the system will ask the user for confirmation (press button) before activating the selected function-key shortcut. This method draws the users attention to requested operations that do not require codes, and thus avoids accidental arm/disarm operations, etc.
	Temperature hysteresis	<p>Programming field for the value of the hysteresis for the "Air conditioning" function of the selected keypad (if enabled).</p> <p>The entered value must be expressed in °C decimals (from a minimum of 0 to a maximum of 4).</p>
	Disable temperature reading	If this option is enabled, the room temperature will not be flashed on the display. This option applies to JOY/MAX keypads only.
	Disable entry-time signal	This option enables/disables the buzzer during partition entry-time
	Disable exit-time signal	This option enables/disables the buzzer during partition exit-time
	Audio signal on terminal T1 output	This option enables/disables the buzzer when terminal T1 on the keypad is activated as an output.
	LED OFF in standby	If enabled, in the event of inactivity on the keypad for at least 40 seconds, the respective LEDs will go off.
	Bypass wireless supervision	If enabled, this option will inhibit control panel supervision of the wireless keypad.
	Bypass tamper	If enabled, this option will inhibit wireless keypad tamper signalling on the control panel.
Alien Graphics	<p>This section appears only when "Touch-screen" is selected in the keypad type .</p> <p>In order to program the following parameters, your computer must be connected to the USB port of the keypad.</p>	
	Communication port	This option allows you to select the connection port to the Alien user interface from those found by the PC.
	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 for the visualization of the image background in the Alien user face graphics section.
	All	Button for the visualization of the image background in the Alien user face graphics section complete with buttons.
	Default	Button for the visualization of the selected default skin in the Alien user face graphics section.
	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.
Images	<p>Visualization of the graphics selected for the Alien keypad.</p> <p>You can load an image from the PC by double-clicking on the background or button icons.</p> <p>The image requirements depend on the device model:</p> <ul style="list-style-type: none"> Alien/S skin: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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 	
Alien Maps	<p>This section appears only when "Touch-screen" is selected in the keypad type .</p> <p>For the programming instructions relating to the graphic maps refer to <i>Chapter 11 - Graphic map configuration</i>.</p>	
Monitoring wireless	<p>This section appears only when "Wireless keypad" is selected in the keypad type.</p> <p>Pressing the Start button starts monitoring on the variation of the signal transmitted by the device and background noise detected over time.</p>	

Proximity readers 9-2

Parts of the system	Programming section			
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers — Nexus ⊖ SmartLiving System 	The Proximity readers option, from the system tree on the left, allows you to configure, via the Programming section, all the parameters which are common to all the readers.			
	Group	Option		
	Reader parameters	<table border="1"> <tr> <th>Reader Buzzers OFF</th> <td>No reader buzzers will emit audible signals during running entry time, exit time, output time or pre-arm time.</td> </tr> </table>	Reader Buzzers OFF	No reader buzzers will emit audible signals during running entry time, exit time, output time or pre-arm time.
	Reader Buzzers OFF	No reader buzzers will emit audible signals during running entry time, exit time, output time or pre-arm time.		
	Proximity reader address configuration	This section allows you to program the addresses of the proximity readers. Firstly, place the control panel in Service status, click on Proximity reader address configuration option then, holding the nKey device in the vicinity of the reader, select the required address. At the end of the operation, click on the End proximity reader address configuration .		
Address LED codes	This section allows you to view how the addresses are displayed on the LEDs.			

Click on the node of the **Proximity readers** option to open a list of all the readers in the system configuration. Select the required reader to view and program its parameters.

Node	Group	Option		
<ul style="list-style-type: none"> ⊖ Proximity readers (2) <ul style="list-style-type: none"> ⊖ Reader 001 (1) ⊖ Reader 002 (2) 	Description	This is the name used to identify the reader, customizable by the installer.		
	Partitions	Section for the selection of the partitions the reader can operate on.		
	Shortcut	Type	You can assign a shortcut type (macro), selectable from those available to each of the LEDs	
		Option	You must specify a further parameter for each shortcut: <ul style="list-style-type: none"> • Arm/Disarm - this parameter refers to one of the 30 scenarios • Activate output - this parameter involves an output • Deactiv. output - this parameter involves an output • Panic - this parameter will be one of the 15 panic events 	

Expansions 9-3

Parts of the system	Programming section	
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions (2) <ul style="list-style-type: none"> ⊖ Expan. 001 (1) ⊖ Expan. 002 (2) 	Clicking on the node corresponding to the Expansions options a list of all the expansions in the configuration.	
	Description	Edit field for the description of the selected expansion.
	Sound on output	This option enables/disables the buzzer of the selected expansion when terminal T1, configured as an output, activates.

Sounderflashers 9-4

Parts of the system	Programming section			
<ul style="list-style-type: none"> [-] Keypads [-] Proximity readers [-] Expansions <li style="background-color: #0070c0; color: white;">[-] Sounderflashers [-] Nexus [-] SmartLiving System 	<p>The Sounderflasher option, from the system tree on the left, allows you to program the patterns in the Programming section.</p> <p>8 modifiable patterns are available. The button allows you to reset the patterns to default.</p>			
	Group	Option		
	Description	<ul style="list-style-type: none"> • Burglary • Burglary volume low • Fire • Tamper • Pre-alarm • Automation • Squawk • Chime <p>Selection menu of the pattern to be programmed.</p>		
	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 sounderflasher.		
	Flash type	<ul style="list-style-type: none"> • 36 flash/min • 46 flash/min • 56 flash/min • ON solid <p>Dropdown box for the selection of the flash rate (number of flashes per minute).</p>		
	Time	<p>This is the flasher activation time, expressed in seconds (from 1 to 127) or minutes (from 1 to 127).</p> <p>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.</p>		
	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 computer and the image of the sounderflasher on the left of the buttons.		
Stop				
Test sounderflasher pattern	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%;">Test</td> <td rowspan="2">Buttons to start and stop a test on the pattern selected on the sounderflasher selected from the list provided. This test requires an active connection with the control panel.</td> </tr> <tr> <td style="text-align: center;">Stop</td> </tr> </table>	Test	Buttons to start and stop a test on the pattern selected on the sounderflasher selected from the list provided. This test requires an active connection with the control panel.	Stop
Test	Buttons to start and stop a test on the pattern selected on the sounderflasher selected from the list provided. This test requires an active connection with the control panel.			
Stop				

Clicking on the node relating to the **Sounderflasher** option provides a list of all the sounderflashers in the system configuration, both Ivy sounderflashers connected to the control panel via the I-BUS and Hedera wireless sounderflashers.

Selection of one of these options will allow you to set up the parameters of the selected sounderflasher.

Node	Group	Option	
<ul style="list-style-type: none"> [-] Sounderflasher (2) <ul style="list-style-type: none"> <li style="background-color: #0070c0; color: white;">[-] Sounderflasher 001 [-] Sounderflasher 002 	Description	Description/Name of the sounderflasher (customizable by the installer).	
	Events	Button to open a window containing a list of the events which activate the sounderflasher.	
	Wireless	<p>Check box for the assignment of the "Wireless" attribute to the selected sounderflasher.</p> <p>If enabled, an Enroll will appear and you will be able to start the procedure for the enrollment of the wireless sounderflasher.</p>	
	Real-time (via cable)	Clicking on the Real-time option displays the following real-time values of the sounderflasher:	
		Battery voltage	Battery voltage inside the sounderflasher.
		Line voltage	Voltage detected on terminals 1 and 2 of the sounderflasher.
	Temperature	This is the internal temperature of the sounderflasher 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	

Real-time (wireless)	Pressing the Start button initiates a 4 minute countdown during which the values of the following features of the wireless sounderflasher will be shown:	
	Level / foam threshold Level / tamper threshold	It is possible to read on the bars the values (from 1 to 100) detected by the antifoam and tamper sensors. You can adjust the alarm threshold by means of the programming fields at the side. The Default button will allow you to restore the values to the factory settings.
	Monitoring the wireless sounderflasher	This section will allow you to view the status of the sounderflasher (<i>paragraph 10-7 Hedera wireless sounderflashers</i>).
Sounderflasher parameters (via cable)	Read sounderflasher	Clicking on the Read sounderflasher and Write sounderflasher buttons allows you to set the parameters of the sounderflasher listed in this section.
	Write sounderflasher	
	Default	
	I-BUS loss signal delay	This is the time the sounderflasher must wait before signalling the loss of the I-BUS signal (expressed in minutes).
	Version	This is the firmware version of the sounderflasher 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 sounderflasher events. The available signals are aligned with the wording of each event: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • On solid - BUS not connected • 1 flash per second - BUS connected but sounderflasher 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 in standby status.
Sounderflasher parameters (wireless)	Communication loss signalling	It is possible to select when the sounderflasher will signal communication loss with the control panel: <ul style="list-style-type: none"> • 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 sounderflasher 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).
	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 sounderflasher) of PRG and STATUS LED activation. The selection of one of the two LED activation sources excludes the other.	

Temperature compensation (via cable)	If the internal temperature of the sounderflasher 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.	
Sounderflasher LED activations	Activation cause	Each sounderflasher LED (PRG or STATUS) has a maximum of 5 list boxes which allow you to select the control panel event which activates the LED.
	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	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.
	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 (wireless)	Pressing the Start button starts monitoring on the variation of the signal transmitted by the device and background noise detected over time.	

Nexus 9-5


Parts of the system	Programming section		
	Group	Option	
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers <li style="background-color: #ADD8E6;">⊕ Nexus ⊖ SmartLiving System 	SMS Com- mands	<p>This section allows you to view the 30 commands, arranged on lines on a table, which can be activated by SMS messages.</p> <p>Double clicking on the line of a command opens a window where you can program the respective parameters.</p>	
		Action	This identifies the number of the command in the table displayed.
		SMS text	This is the identification string to be included in the SMS command.
		Shortcut	<p>This field will allow you to select one of the following shortcuts:</p> <ul style="list-style-type: none"> 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 enquiry 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	<p>Identifies the type of command feedback:</p> <ul style="list-style-type: none"> 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". <p>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.</p> <ul style="list-style-type: none"> 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.

Caller ID Commands	This section will allow you to program up to 200 telephone numbers and the commands associated with each of the numbers. Commands will be carried out when the control panel recognizes the number and the validity of the command. If the telephone number makes a voice call, the command you select from those programmed in the SMS Commands will be activated.	
	N°	This identifies the number of the command in the table displayed.
	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.
	Refuse call	Enabled - when the telephone number calls, the Nexus will not answer the call but will carry out the command associated with the telephone number concerned. Disabled - when the telephone number calls, Nexus will not reject the call but will allow it to proceed normally in such a way that the SmartLiving control panel can activate (if so programmed) the communicator 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.	
Text for SMS messages	This section allows you to edit and program up to 50 SMS messages of up to 80 alphanumeric characters each. These messages can be associated with the events by means of the "SMS number" option described in <i>paragraph 9-14 Events</i> .	
	N°	Identifies the number of the SMS message.
	Text - Remaining characters	Editable field for the SMS text message. The number of characters available are available.
General parameters / Residual credit	Enable residual credit check	If this option is enabled, you must also program the interrogation method the Nexus will use to make residual-credit enquiries to the GSM provider. <ul style="list-style-type: none"> Automatic - the Nexus will make residual credit request to the GSM provider (regarding its own SIM) without need of programming. Manual - the interrogation parameters to the provider and reply must be set up manually.
	Manual parameters - Request	<ul style="list-style-type: none"> SMS - residual credit request will be made via an SMS text sent by the Nexus to the provider. Call - residual credit request will be made via a call which will be diverted by the Nexus to the provider. Network command - residual credit request 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 residual credit request. 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	<ul style="list-style-type: none"> SMS - the provider will reply via SMS message. Call - the provider will reply via call. Answer number - this is the telephone number (made available by the GSM provider) the residual credit information will come from. This field must be programmed regardless of the selected manual mode (SMS, call or Network command). Answer message - 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	The interval, expressed in hours, which must pass between one automatic credit-request and another.
	General parameters / Volume settings	Balancing
Input volume		This option allows you to program the volume of the input signal to the Nexus and, consequently, the volume of the signal received by the control panel.
Output volume		This option allows you to program the volume of the output signal from the Nexus to recipient telephone devices.

General parameters / Other parameters	Disable tamper	This option, if enabled, deactivates tamper signalling on the Nexus communicator.
	Emergency signalling delay	This is the delay, expressed in seconds, the Nexus device applies before generating the "Nexus lost" event.
	Disable GPRS fault on keypad	If enabled, it stops the control panel from signalling the occurrence of specific faults or GPRS connection trouble.
GPRS parameters	Access point name (APN)	This is the field for the name of the GPRS provider.
	Advanced	This button opens a window for the user's name and password, sometimes required by the provider. If these details are not required, these fields can be left blank.
	Server address (URL)	This is the IP address of the server (standard IPv4) the Nexus/G device connects to. It is the IP address where the SmartLeague application awaits the incoming GPRS connection for the Nexus/G. You can indicate the address in octets or strings.
	Port	This field is for the server connection port, usually provided by the network administrator.
	Connection name	This is the descriptive string of the connection. This parameter is necessary for Teleservice requests via SMS text message and must have between 4 to 16 characters.

SmartLiving System 9-6

Parts of the system	Programming section		
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers ⊕ Nexus ⊖ SmartLiving System 	<p>The SmartLiving System option, from the system tree on the left, allows you to program the basic parameters of the control panel in the Programming section.</p> <p>Click on the corresponding node to access a list of all the individual items relating to the control panel programming process. Select the required item to view and program the respective parameters (refer to the following paragraphs).</p>		
	Group	Option	
	Installer code	This section is for the installer PIN which is required when communicating with the control panel.	
	Control panel description	Edit field for the description of the control panel (max 50 alphanumeric characters).	
	Serial number	Section where, after a reading, it is possible to view the serial number of the control panel.	
	"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. <i>Refer to paragraph 9-6-1 "Cloud mode" preset.</i>	
	Date/Time	Editable field for the system date and time. You can set the time of the computer in use by means of the Set local date button, then transfer the setting to the control panel by means of the Write on control panel button.	
	Periodic event	Programming field for the date and time of the first "Periodic Event" (refer to <i>paragraph 9-14 Events - Actions</i>). You can transfer the setting to the control panel by means of the Write on control panel button.	
		PeriodicInterval	This parameter allows you to set the interval between "Periodic events" (expressed in minutes or hours). To disable the "Periodic event", set "0".
		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.

Control panel parameters	Restart monostable outputs	If activated, each event which activates a monostable output refreshes the programmed "Monostable time".
	Does not arm if any of the zones are not ready	The control panel will not arm the partition if it detects any open zones (zones which are not in standby status). If, amongst the zones not in standby status, there are zones configured as "Autobypassable" or "No arm if not ready" (refer to <i>paragraph 9-8-1 Zone / Input</i>) 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
	Bypass tamper in the event of bypassed zones	If a zone is bypassed (disabled), it will also be unable to generate terminal tamper.
	Prevents the deletion of tamper memory by user code	No user will be allowed to delete of the following events: <ul style="list-style-type: none"> • terminal tamper • control panel open-tamper • control panel dislodgement-tamper • peripheral tamper • peripheral loss • false key
	Instant reset of wireless magnetic contact	If this option is enabled, reset of the magnetic reed sensor of Air2-MC100 and Air2-MC200 wireless detectors will be signalled instantly (otherwise signalling has a maximum delay of 10 seconds).
	Hide the Teleservice icon on keypad	If this option is enabled, the  symbol which usually appears on the keypad display during teleservice sessions will be hidden.
	Hold 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.
	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.
	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: <ul style="list-style-type: none"> • 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
	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.
	Wireless supervision time	Dropdown box for 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.
	Check horn	The control panel will generate a "Sounderflasher tamper" event when the passive horn disconnects from the relay (wire cutting tamper).
	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.
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.	
Serial speed 115200 bps	If enabled, the bit rate of the serial port will be 115200 bps. if disabled the bit rate will be 57600 bps.	

I-BUS parameters	BUS speed	This is the BUS communication speed (38.4 / 125 / 250 kbps).
	Mains fault delay	This parameter allows you to program the delay, expressed in minutes, between mains failure and the "Mains failure" fault event signal.
	Low battery delay	This parameter allows you to program the delay, expressed in minutes, which will be applied before "LowBattery" events are signalled.
Telephone options	Telephone-voice volume output	Volume adjustment bar to higher/lower the volume of voice messages during playback over the phone.
	Telephone input volume	Bar for adjustment of the telephone input signal volume. This option is useful in situations which require better comprehension of DTMF tones and improvement of teleservice intervention via modem.
50131 parameters	50131 Grade 3 Compatibility	This option activates a presetting on the control panel which adheres to grade 3 of EN50131.
	Reader LED OFF	If there are no keys present at the reader, the LEDs of nBy readers will be Off. If a key is waved across the reader, the status will be indicated on the LEDs for 30 seconds before switching Off 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.
	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.
	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.
	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.
	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.
	Forced arming faults	This section allows you to select which events, other than zones in alarm status, will be signalled as system security-risk conditions when the partition arms.
IP connection test parameters	This section allows you to program the parameters of the IP connection test.	
	IP Address Port	Pv4 Address and port connection attempts are directed to.
	Interval	Time, expressed in seconds, between connection tests. If "0" is set, the connection test will be disabled.
	Number of attempts	Number of connection attempts for each test.

“Cloud mode” preset 9-6-1

In order to assist the installer when programming a SmartLiving control panel registered to the Inim Cloud service, the SmartLeague software provides an option that, if enabled, applies 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:

- The “Inim Cloud” will be assigned to telephone number 12 which will no longer be editable.
The only parameter that will remain editable is the **Channel**, i.e. the connection channel (Nexus or SmartLAN).
- A preset of events of various types will be applied and must be communicated to the Cloud when they occur.






Event	Communication to Cloud in case of	
	Activation	Restoral
Zone alarm	Yes	Yes
Terminal tamper	Yes	Yes
Zone bypass	Yes	Yes
Partition armed in Stay mode	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	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
I-BUS fuse fault	Yes	Yes
Battery fault	Yes	Yes
Mains failure	Yes	Yes
Expansion tamper	Yes	Yes
Keypad Tamper	Yes	Yes
Reader Tamper	Yes	Yes

Event	Communication to Cloud in case of	
	Activation	Restoral
Sounder flasher tamper	Yes	Yes
Nexus tamper	Yes	Yes
LIVPWR100 tamper	Yes	Yes
Video detector tamper	Yes	Yes
Expansion Loss	Yes	Yes
Keypad Loss	Yes	Yes
Reader Loss	Yes	Yes
Sounderflasher loss	Yes	Yes
Nexus loss	Yes	Yes
LIVPWR100 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
False key	Yes	No
GSM fault	Yes	No
Undergoing programming	Yes	Yes
Output fault	Yes	No
Low credit	Yes	No

Partitions 9-7

Parts of the system	Programming section		
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers — Nexus ⊖ SmartLiving System <ul style="list-style-type: none"> ⊕ Partitions 	<p>The Partitions option, from the installation tree on the left, accesses a table in the Programming section, where each line corresponds to a partition and each column to a parameter of each partition. Click on the node of the Partitions option to access a list of all the partitions. Select the required item to view and program the respective parameters.</p> <p>The second Entry time is added to this.</p>		
	Group	Option	
	Description	This is the editable partition label (description).	
	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 standby 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.	
	Details	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 wish 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.
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.	
Clear call queue on disarm		If enabled, the call queue will clear when the partition disarms.	

Terminals 9-8

Parts of the system	Programming section		
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers — Nexus ⊖ SmartLiving System <ul style="list-style-type: none"> ⊕ Partitions ⊕ Terminals 	<p>The Terminal option, from the system tree on the left, accesses a layout which allows you to configure, via the Programming section, all the terminals and their applications.</p> <p>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. The 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 <i>paragraph 5-1 Preparing a project</i>).</p> <p>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.</p> <p>Right clicking on the PCB of an expansion allows you to configure all the board terminals as "Wireless", however, the image will not colour until the respective devices are enrolled.</p> <p>Once a terminal has been assigned a configuration, the "connected" icon will represent the resulting configuration:</p>		
	<ul style="list-style-type: none"> <li style="width: 50%; text-align: center;">  Zone or Input <li style="width: 50%; text-align: center;">  Output <li style="width: 50%; text-align: center;">  Double zone <li style="width: 50%; text-align: center;">  I/O Input/Output 		
	<p>Double clicking the icon of a terminal with a configuration opens a window where you can program all the parameters of the selected terminal (refer to <i>paragraph 9-8-1 Zone / Input</i>, <i>paragraph 9-8-2 Output</i> and <i>paragraph 9-8-3 Wireless</i>).</p> <p>Click on the node of the Terminals option to view the sub-options provided by the two sections the terminals can be associated with: Zones and Outputs. Select either of these sections to access the respective table in which each line corresponds to a terminal and each column to a parameter of each terminal.</p> <p>A right click in this section allows you to copy/paste the programming contained in the selected line.</p>		
		Reassign the CCC in sequential mode	This button, on the top left of the terminal configuration section, initiates an operation that reassigns the Contact-ID code of each zone in such a way that they are all in sequential order.

Zone / Input 9-8-1

Group	Option	
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.	
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, Rollerblind, 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.	
Configuration scheme	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: <ul style="list-style-type: none"> • Zone alarm • Zone tamper • Zone bypass • Zone real-time 	
"Generic" device 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.
	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 will allow before generating an alarm. Expressed in multiples of 15 milliseconds or minutes.
Rollerblind device parameters	Rollerblind time	This parameter applies only when the value of the "Rollerblind 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.
	Rollerblind 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 "Rollerblind time" parameter.
Shock device parameters	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.
	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.
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: <ul style="list-style-type: none"> • yellow - tamper/short • green - standby • red - alarm • orange - double zone with one zone in alarm status and the other in standby status 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. If the zone is configured as "Wireless", this button will provide information that differs to that indicated; for details refer to <i>paragraph 9-8-3 Wireless</i> .	
Partitions	These are the partitions the zone belongs to. A zone configured as "Automation" cannot be assigned to any partition.	

Options	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.
	Autobypassable	A zone with this attribute will be bypassed automatically by the control panel, if the partition it belongs to arms when the zone is not in standby 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.
	Autobyp. no unbyp. on restore	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 standby 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 "antimask" 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.
	Last exit zone	If this option is enabled, and the zone passes from standby 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 disarm	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).	

Output 9-8-2

Group	Option	
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.	
Output options	Normally closed	This is the condition of the output during standby status.
	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. If this option is enabled, it is possible to set the monostable time in the field below.
	Buzzer - beep 1KHz	When the output is activated, it will generate a 1Khz signal. This can be used to drive a buzzer.
	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.
	Do not deactivate on reset	The output will not restore when the activating event ends. This option is useful in situations which require a trigger event for output activation and a reset event for its deactivation. This option applies to bistable outputs only.
	Switch	Each time you perform an "activate output" command, the output will switch status. Therefore, if it is deactivated it will activate and vice versa.
	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.
	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.	

Events	The Events option, from the table available under the Terminal, Outputs option opens a window containing a list of events which can activate the output. You can delete each individual event by clicking on Delete .
Codes	The Codes option, from the table available under the Terminals, Outputs option, opens a window containing a list of user codes which can activate the output.

Wireless 9-8-3

This section is shown at the bottom of the terminal programming window if the respective expansion is configured as "Wireless". The visualization of the following parameters varies in accordance with the type of wireless device selected in the "Type" check box.	
Group	Option
Enroll	Button to start the enrolling a wireless detector which is not yet enrolled (unenrolled) on the terminal concerned.
Remove	Button to delete (unenroll) an enrolled wireless detector from the terminal concerned.
Type	Type of device to be enrolled: If configured as a zone: <ul style="list-style-type: none"> • None • PIR sensor - allows you to enroll an Air2-IR100 detector • Magnetic contact -allows you to enroll Air2-MC100 magnetic reed contact • Terminal 1 magnetic contact - allows you to enroll the "T1" terminal of an Air2-MC100 • Terminal 2 magnetic contact - allows you to enroll the "T2" terminal of an Air2-MC100 • Smoke detector - allows you to enroll an Air2-FD100 smoke detector • Air2-XIR200W Passive infrared detector • OutdoorDetector, allows you to enroll an Air2-OTT100W outdoor triple technology detector or an Air2-UT100 universal wireless transceiver If configured as a double zone: <ul style="list-style-type: none"> • None • MC200 magnetic contact - in this case the two zones are "Magnetic contact" and "Accelerometer detector" • DT200T Curtain detector, to pick up alarm signals from the Air2-DT200T device; in this case the two zones are "Zone 1" and "Antimasking" • DT200T directional detector, to pick up direction path signals from the Air2-DT200T device; in this case the two zones are "Direction 1" and "Direction 2" • XDT200W Dual technology detector; in this case the two zones are "Zone 1" and "Antimasking" If configured as an output: <ul style="list-style-type: none"> • None • Terminal 1 magnetic contact - allows you to enroll the "T1" terminal of an Air2-MC100 • Terminal 2 magnetic contact - allows you to enroll the "T2" terminal of an Air2-MC100
Sensitivity	This selection field allows you to change the sensor sensitivity of previously enrolled Air2-IR100 devices or Air2-FD100 smoke detectors. <ul style="list-style-type: none"> • Air2-IR100: 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 Sensitivity	This selection field allows you to change the sensitivity of the infrared sensor of previously enrolled Air2-XIR200W, Air2-XDT200W, Air2-DT200T (if used as curtain detector) or Air2-OTT100W devices. The sensitivity ranges from 1 (least sensitive) to 15 (most sensitive). The default setting is 10.
Microwave sensitivity	This selection field allows you to change the sensitivity of the microwave sensor of previously enrolled Air2-XIR200W or Air2-DT200T devices (if used as curtain detector). The sensitivity ranges from 1 (least sensitive) to 15 (most sensitive). The default setting is 10.
Tamper sensitivity	Selection field for the adjustment of the sensitivity of the infrared sensor of the Air2-XIR200W, Air2-XDT200W, Air2-DT200T (if operating as a curtain detector) or previously enrolled Air2-OTT100W devices. The sensitivity ranges from 1 (least sensitive) to 15 (most sensitive). The default setting is 5.
Antimask sensitivity	This selection field allows you to change the sensitivity of the anti-masking sensor of previously enrolled Air2-XIR200W or Air2-DT200T devices (if used as curtain detector). The sensitivity ranges from 1 (least sensitive) to 15 (most sensitive). The default setting is 5.
Reed relay type	This selection field allows you to select the Air2-MC100 magnetic contact reed: <ul style="list-style-type: none"> • Magnet long side - for detection using 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.
Shock sensor	This check box allows you to select a previously enrolled Air2-MC200 magnetic contact and modify the shock-sensor parameters from 1 (least sensitive) to 63 (most sensitive).
Tilt	This number box allows you to set the maximum angle allowed before signalling of tilting occurs, from 1 (minimum tilting) to 15 (90° approx. when compared with the standby position).
Disabled	Check box to disable the corresponding detector
Tilt delay	This parameter allows you to set the delay before signalling of tilting occurs (seconds or milliseconds)

Options	Tamper on inactive reed relay	Detects tamper on the Air2-MC100 magnetic-contact when both reeds are in standby status.
	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.
	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-MC100 configured as outputs.
	Bypass tamper	If this option is disabled, open/dislodgement tamper on Air2 detectors will not generate the respective events.
Real-time	Battery level	Image, that by means of the colour green, represents the battery level of the device.
	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.
	RF analysis	This button opens a window which allows you to monitor the signal variations transmitted by the device and any detected background noise.

Arming scenarios 9-9

Parts of the system	Programming section		
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers — Nexus ⊖ SmartLiving System <ul style="list-style-type: none"> ⊕ Partitions ⊕ Terminals ⊕ Arming scenarios 	<p>The Arming scenarios option, from the installation tree on the left, accesses a table in the Programming section, in which each line corresponds to a scenario and each column to a parameter of each scenario.</p> <p>Instead, clicking on the node of the Arming scenarios option accesses a list of all the scenarios. Select the required scenario to view and program its parameters.</p>		
	Description	Editable field for the description of the scenario.	
	Partitions	<p>This section allows you to configure the arm/disarm scenarios of all the partitions managed by the control panel.</p> <ul style="list-style-type: none"> "-" 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. 	
	Icon	<p>This section allows you to select the icon you wish to assign to the scenario, by indicating the icon number (refer to <i>paragraph 9-16 Icons and shortcuts</i>):</p> <p>The selected icon will be shown on the right.</p>	
	Output	<p>This dropdown box allows you to select the output that will be activated when the scenario is applied (from keypad, over the phone, from a reader, etc.).</p> <p>It is possible to use a single scenario to activate an output (in this case, actions on partitions must not be programmed), thus allowing display on the keypad of the different icons for the activation of different outputs.</p>	

Timers 9-10

Parts of the system	Programming section	
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers — Nexus ⊖ SmartLiving System <ul style="list-style-type: none"> ⊕ Partitions ⊕ Terminals ⊕ Arming scenarios ⊕ Timers 	Click on the node relating to the Timers option to access a list of all the available timers. Select the required item to view and program the respective parameters in the Programming section.	
	Description	This is an editable field for the description of the timer.
	Monday / ... / Sunday	You can set two "ON" and "OFF" timeframes 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.
	Exceptions	Each exception allows you to define a timeframe, expressed in days, within which you can set an "ON" time and an "OFF" (deactivation) time valid for all the days included in the timeframe. Exceptions always have priority over the days of the week.
	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.

Codes 9-11

Parts of the system	Programming section		
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers — Nexus ⊖ SmartLiving System <ul style="list-style-type: none"> ⊕ Partitions ⊕ Terminals ⊕ Arming scenarios ⊕ Timers ⊕ Users <ul style="list-style-type: none"> ⊕ Codes ⊕ Keys 	Click on the node of the Users option from the system trees to access the Codes and Keys options. The Codes option accesses a table, in the Programming section, where each line corresponds to a code and each column corresponds to a parameter for each code. Click on the node of the Codes option to access a list of all the codes. Select the required code to view and program its parameters.		
	Group	Option	
	Description	This is an editable programming field for the code user's name.	
	Partitions	Section for the selection of the partitions the code is assigned to.	
	Options	Type	Programming field for the assignment of the level in the code hierarchy of the selected user.
		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.
		Fixed length code	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 "F1/F4 key shortcuts", to be described later.
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.			
Access to user menu	If this option is enabled, the user of the code concerned can access their menu only after pressing the "OK" key and typing-in their PIN.		
	Selection field to allow menu viewing on the system keypads immediately after user code validation: <ul style="list-style-type: none"> • Icons, function key shortcuts; display of the code icons 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 scenarios assigned to 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 - opens the user-menu scroll list containing all the operations the user is enabled to perform. 		

Programming section		
Enablement details	This section allows you to enable/disable access to the various sections of the User Menu. For further details regarding the User Menu, refer to <i>Users Manual</i> of the SmartLiving control panel.	
	Enablement of outputs	This section allows you to enable/disable the outputs the code user can control manually (switch ON/OFF) via the user menu.
Shortcut details	F1/F4 key short-cuts	This section allows you to assign a shortcut to each of the function keys F1 to F12 (with the eventual respective parameter) which will activate when the key is pressed.
	0/9 key short-cuts	This section allows you to assign a shortcut to each of the number keys 0 to 9 (with the eventual respective parameter) which will activate when the key is pressed.
Option details	Voice guide	For JOY/MAX keypad only. If enabled, after PIN entry followed by "OK", the voice guide will announce the available shortcuts for the user-code concerned and the respective number keys on the keypad.
	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. Use of a code over-the-phone allows you to only carry out the shortcuts assigned to the number keys 0 to 9.
	Timers	This section allows you to assign a timer to the code. The code will be operative only at the pre-set times.
Change user PIN	This section allows you to change the PIN to the selected user. Changes will be valid only after the Change PIN button has been pressed.	
	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).

Keys 9-12

Parts of the system	Programming section		
<ul style="list-style-type: none"> + Keypads + Proximity readers + Expansions + Sounderflashers - Nexus - SmartLiving System <ul style="list-style-type: none"> + Partitions + Terminals + Arming scenarios + Timers + Users <ul style="list-style-type: none"> + Codes + Keys 	Click on the node of the Users option from the system trees to access the Codes and Keys options. The Keys option accesses a table, in the Programming section, where each line corresponds to a key and each column corresponds to a parameter of each key. Click on the node of the Keys option to access a list of all the keys. Select the required key to view and program its parameters.		
	Group	Option	
	Description	This is an editable field for the key name/description.	
	Partitions	This section allows you to establish which partitions the key can control.	
	Options	Patrol	The digital key will be able to disarm specific partitions for patrol purposes.
		Maintenance	The digital key will be able to block alarm/tamper outputs for the time that it is held in front of a reader.
		Wireless	This option indicates whether the previously enrolled key is a wireless key or not.
		Use key short-cuts only	If a digital key is held in the vicinity of a reader, only the digital key shortcuts will be indicated and not the reader shortcuts.
		Total disarming disabled	If a digital key is held in the vicinity of a reader when partitions are armed, the Disarm option will be inhibited (all LEDs Off).
	Timers	This section allows you to associate a timer with the digital key. The key will be able to operate the system only when the associated timer is "On".	
Shortcut	This section will allow you to setup the four shortcuts (with the eventual respective parameter) that the key can activate from a nBy/S or nBy/X proximity reader. Each shortcut is associated with the activation of a LED on the reader (red, blue, green and yellow).		

Telephone 9-13

Parts of the system	Programming section	
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers — Nexus ⊖ SmartLiving System <ul style="list-style-type: none"> ⊕ Partitions ⊕ Terminals ⊕ Arming scenarios ⊕ Timers ⊕ Users ⊕ Telephone 	Selection of the Telephone option from the installation tree on the left, accesses two subsections in Programming section: <ul style="list-style-type: none"> • Telephone: this is a table where each line corresponds to a telephone number and each column corresponds to a parameter for each number. A right click in this section allows you to copy/paste the activation/restore events contained in the selected line. Clicking on the Events option on the table opens a window containing a list of events which can activate the phone call. You can delete each individual event by clicking on Delete. • Telephone parameters: allows you to program the parameters of the telephone line, telephone diallers and teleservice, as follows. 	
	Telephone line parameters	Group
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.
Pulse dialing		The control panel will dial using pulse tone.
Telephone line fault alert		If a "telephone line fault" event occurs, the control panel will flash the respective icon on the keypad displays.
Double call		The control panel will override the answerphone function. Option available only for PSTN calls.
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).
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.	
Telephone communicator parameters	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.
	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).
	Start message after dialling	The control panel will start the voice message 5 seconds after dialling the respective contact number.
	Confirm call with "*" "	The control panel will consider the voice call successful when the recipient presses "*" on the telephone keypad.
	UTC Time on SIA-IP	Calls to SIA-IP type numbers will contain the date and time in "UTC" format (Coordinated Universal Time).
	Increase DTMF sensitivity	Option that increase the sensitivity of incoming DTMF tones.
	No SIA/SIA-IP strings	The descriptive strings will not be sent in SIA/SIA-IP protocol.
	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.
	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.
	Stop calls on disarm 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.
	Number of voice mess. repetitions	This value determines the number of times the voice message will be played during the call (from 1 to 15).
	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).
Delay on line-down signal	This parameter allows you to program the delay, expressed in seconds or minutes, which will be applied before signaling of "line down" events.	

Teleservice parameters	Telephone number 15 reserved for teleservice	Telephone number 15 in the phonebook is reserved for teleservice (maintenance over-the-phone). If an end-user makes a request for teleservice, the control panel will contact this number.
	Installer callback	The control panel calls the teleservice number after the installer's call to the control panel
Cloud Settings	Exclude Nexus from Cloud	If enabled, this option denies access to Cloud through the Nexus. The latter continues to operate normally.

Click on the node of the **Telephone** option to access a list of all the contact numbers. Select the required number to view and program the respective parameters.

Node	Group	Option
	Description	This is an editable field for the code user's telephone number, to be customized by the installer.
	Telephone number	Editable field for the contact number (maximum 20 digits). Accepts also ", " (= 2 second pause), "*" and "#".
	Type	Telephone number type: <ul style="list-style-type: none"> • 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): <ul style="list-style-type: none"> • Ademco 10bps, Ademco 14bps, Franklin 20bps, Radionics 40bps, Scantronic 10bps, CONTACT-ID, SIA, Ademco Express, CESA, SIA-IP, Cloud
	Account code	This is the 4-character alphanumeric code which identifies the caller in reports to the Alarm Receiving Centre.
	Channel	Selection box for the channel on which you can route the call: <ul style="list-style-type: none"> • PSTN • Nexus • SmartLAN
	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.
	Encryption	This field allows you to select the SIA-IP protocol encryption type: <ul style="list-style-type: none"> • None • AES 128 bit • AES 192 bit • AES 256 bit After selecting the type is is necessary to indicate the encryption key.
	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.
	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
 - ☐ Tel. number 1
 - ☐ Tel. number 2
 - ☐ Tel. number 3
 - ☐ Tel. number 4
 - ☐ Tel. number 5

Events 9-14

Parts of the system	Programming section		
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers — Nexus ⊖ SmartLiving System <ul style="list-style-type: none"> ⊕ Partitions ⊕ Terminals ⊕ Arming scenarios ⊕ Timers ⊕ Users ⊕ Telephone ⊕ Events 	The Events option, from the system tree, gives access to the buttons and outputs in the Programming section which allow for the management of the event activation and restore actions.		
	Group	Option	
	Event maintenance	Reset default	Button to reset the default values of the digital communicator for all the events.
		Delete activation/restoral outputs	The sections with a Delete button allow you to delete all the outputs associated with the activation/restoral actions of each event.
		Delete activation/restoral calls	The sections with a Delete button allow you to delete all the telephone calls associated with the activation/restoral actions of each event.
		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/restoral actions of each event.
		Reset default SIA protocols	This section provides a Reset default button that resets the default settings of SIA protocol codes for all the events.
Delete shortcuts on event		This section provides a Delete Shortcuts button that cancels the "Shortcut on event" parameters on all 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. 16 outputs are available for the activation of the event and 8 for its restoral, all selectable via boxes between the outputs already configured in the Terminals section.		
Output scenarios	This section provides the list of the 50 available scenarios. 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: <ul style="list-style-type: none"> • 0/100, percentage value for the dimmer outputs or analogue outputs of a Flex5 expansion. • ON, command that activates the output or changes the activation status if the output is a "switching" type output. • OFF, command that deactivates the output • Force ON, command that activates the output • Toggle, command that changes the activation status of the output 		



Click on the node of the **Events** option, from the system tree on the left, to access the list of all the event types. The Event Type option accesses a table, in the **Programming** section, in which each line corresponds to an event and each column corresponds to a parameter for each event.

A right click in this section allows you to carry out the following operations on the boxes of the selected column:

- Activate the selection of all boxes
- Deactivate the selection of all boxes
- Invert the selection of all boxes

Click on the node of the Event Type to access a list of all the events. Select the required event to view and program the respective parameters.








Node	Group	Option	
<ul style="list-style-type: none"> ⊕ Events <ul style="list-style-type: none"> ⊖ Zone alarm <ul style="list-style-type: none"> PANEL T01 PANEL T02 PANEL T03 PANEL T04 PANEL T05 	Actions	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.	
		Tel. number	This section allows you to select the telephone numbers to call on event activation/restoral.
		Voice message on keyp. 001	Activation of the voice message playback on keypad must be set at address "001" on activation/restoral of each event.
		Output	The output to be activated on activation/restoral of each event can be selected from the check-box list.
		Activate periodic event	When the event occurs, the system will generate the Periodic event.
		Clear call queue	When the event occurs, the system will cancel the outgoing call queue.
		Memory	If this option is enabled, activation/restoral of the event will be saved to the events log.
		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.

Shortcut on event	Programming field for the selection of a control panel operation that will be activated automatically when the event occurs. This field is followed by a further two fields for the definition of the respective parameters.	
Sounderflasher pattern	If a sounderflasher is included in the outputs, its activation will occur in accordance with the selected pattern.	
Silent event	If the event occurs, the system will generate silent calls which will not be signalled on the keypads.	
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.	
Force on 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 <i>paragraph 9-13 Telephone</i>).	
Voice communicator	This section allows you to program the voice message associated with the activation/restoral of the event. This message is a combination (to be selected by the installer) of the messages that, when necessary, will be played back in the following order: <ol style="list-style-type: none"> 1. "Restoral" - plays when the event restores 2. Type - indicates the event type 3. Message A 4. Message B 5. Send address - plays the message associated with the registered address You can view the sequence of messages in the table on the right of the section, and listen to them by pressing the respective button  . You can select individual messages by means of the check boxes on the left.	
	Automatic dialer	If this option is enabled, the system will configure an optimal sequence of the messages for the activation/restoral of the event. You can select different messages from those proposed, but the option enabled in this way imposes a limited selection in accordance with the event type.
Digital communicator	Class code	This is the CONTACT-ID reporting format Class-Code which corresponds to the event.
	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).
	SIA protocol	If the event is associated with calls using SIA protocol or SIA-IP, this parameter will allow you to program the event code in accordance with SIA standard by selecting it from the list.
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. These outputs must be selected from those set up in the Configure other outputs section and are common to all the events.	
Nexus	Enable SMS mess.	When the event occurs, the control panel will send an SMS message to all the duly enabled telephone numbers (refer to <i>paragraph 9-13 Telephone</i> , "Receive SMS" parameter).
	Automatic SMS	If enabled, the dispatched SMS message will consist of the event description contained in the Events log.
	SMS number	If the "Automatic SMS" option is not activated, an SMS message from the 50 available on the Nexus will be sent (refer to <i>paragraph 9-5 Nexus</i> , "Receive SMS" parameter).
Programmable event		When you select a programmable event from the SmartLiving system tree on the left, the Programming section on the right will provide the previously-described programming parameters and a button (at the top) which opens a window where you can formulate the event. This window allows you to edit the programmable event as a logical-mathematical formula using events, timers and counters.

Voice messages 9-15

Parts of the system	Programming section		
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers — Nexus ⊖ SmartLiving System <ul style="list-style-type: none"> ⊕ Partitions ⊕ Terminals ⊕ Arming scenarios ⊕ Timers ⊕ Users ⊕ Telephone ⊕ Events ⊕ Voice messages 	The Voice messages option, from the system tree on the left, accesses the Programming section which provides the voice message read/write buttons and a section for the formatting of the SmartLogos30M voice board.		
	Group	Option	
	Read all messages from the control panel	Button that allows the reading from the control panel of all the messages on the voice board.	
	Write all messages on the control panel	Button that allow the writing on the control panel of all the programmed voice messages.	
	Format SmartLogos board to version ...	This section allows you to format the SmartLogos30M voice board to the version which corresponds to the control panel firmware of the solution you are working on.	
		Check SmartLogos board	Button to start a check on the voice board and obtain information regarding its firmware version.
Format 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: <ul style="list-style-type: none"> Preserve previously-recorded messages Format using default messages 	

Click on the node of the **Voice messages** option, from the system tree on the left, to access the list of all the message types. The Message type option accesses a table, in the **Programming** section, in which each line corresponds to an individual message and each column corresponds to a parameter of each message.

Node	Group	Option		
<ul style="list-style-type: none"> ⊖ Voice messages <ul style="list-style-type: none"> ⊕ Free messages ⊕ Arming scenario m ⊕ Shortcut messages ⊕ Pre-recorded mess ⊕ Zone messages ⊕ Partition messages ⊕ Code messages ⊕ Key messages ⊕ Keypad messages ⊕ Proximity reader m 	Buttons		Button to start the text-to speech process of the messages selected in the table. The texts entered in the Text to speech section will be converted into audio files and associated with the selected messages.	
			Button to open a window for text-to-speech setting changes.	
			Button to invert the selection of the messages listed in the table.	
			Button to delete all the selected messages.	
			Button to reset to default programming the audio files of the messages selected in the table.	
			Button to playback the audio file associated with the message.	
			Button to playback the audio file associated with the message.	
	Options	Nr.	Message index inside the voice board memory.	
		Description	This is an editable field for the message description.	
		Type of coding	Type of coding for the message: <ul style="list-style-type: none"> 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.	

Click on the node of the Message Type option to access a list of all the messages. Select the required message to view and program the respective parameters.

Node	Group	Option	
<ul style="list-style-type: none"> [-] Voice messages <ul style="list-style-type: none"> [-] Free messages <ul style="list-style-type: none"> Message 1 Message 2 Message 3 	Message category	This is the message type the selected message belongs to.	
	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: <ul style="list-style-type: none"> 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).	

Icons and shortcuts 9-16

Parts of the system	Programming section		
<ul style="list-style-type: none"> [-] Keypads [-] Proximity readers [-] Expansions [-] Sounderflashers Nexus [-] SmartLiving System <ul style="list-style-type: none"> [-] Partitions [-] Terminals [-] Arming scenarios [-] Timers [-] Users [-] Telephone [-] Events [-] Voice messages [-] Icons [-] Association Shortcut-Icon 	There are two sections in the SmartLeague system tree where you can edit the shortcut icons which appear on the keypad display, in relation to function keys F1 to F12.		
	Group	Option	
	Icons	Click on the node of the Icons option to access a list of the 50 available icons. Select the required icon from the Programming section on the right, to access a page where you can edit the selected icon. In this section you can edit for each icon:	
		Description	This is the descriptive string associated with the icon.
		Draw	You can change the icon by means of digital graphic instruments.
Association Shortcut-Icon	The Shortcut-Icon association option, in the Programming section on the right, accesses a table showing all the shortcuts arranged on lines. Select one of the 50 available icons from the Icon column in order to associate it with selected shortcut. Click on the node of the Shortcut-Icon association option to access a list of the 36 available shortcuts. Select the required shortcut from the Programming section on the right and associate it with an icon by means of a check box then visualize the selected icon.		

SmartLAN 9-17

Parts of the system	Programming section		
<ul style="list-style-type: none"> + Keypads + Proximity readers + Expansions + Sounderflashers Nexus + SmartLiving System <ul style="list-style-type: none"> + Partitions + Terminals + Arming scenarios + Timers + Users + Telephone + Events + Voice messages + Icons + Association Shortcut-Icon <ul style="list-style-type: none"> SmartLAN settings 	<p>The SmartLAN configuration option from the system tree allows you to read and program the parameters of the SmartLAN/G Ethernet interface board.</p> <p>The read programming data comes directly from the SmartLAN board memory, similarly the sent programming data is saved to the memory of the board connected to the control panel and not to the control panel memory.</p>		
	Group	Option	
	LAN board	<p>This section allows you to configure the LAN board inside the network it is connected to.</p>	
		Connection parameters	<ul style="list-style-type: none"> • IP Address • Subnet mask • Gateway • DNS • Obtain IP address automatically - if enabled, the previously-mentioned data will not be required, DHCP will be used. • Communication port • Web server port • SSL port • Timeout (ms) • Enable UPnP - this option enables UPnP protocol which automatically activates "port-forwarding" through the network router of the communication, web and SSL ports (indicated above).
		Account	<ul style="list-style-type: none"> • User name • Password
		E-mail parameters	<ul style="list-style-type: none"> • Subject - this field is for the "Subject" of the e-mails. When the SmartLAN/G board sends an e-mail it will use the description of the event type as the subject. • Sender - this is the e-mail address of the sender. • Mail Server - this is the 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 • 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 - if the SMTP server requires authentication, enable this option and then set the following: <ul style="list-style-type: none"> • User name • Password
		Dynamic DNS	<p>If a dynamic public IP address is available, you may find it useful to use a domain name which will allow you to trace your SmartLAN device at all times.</p> <p>SmartLeague supports the service offered by:</p> <ul style="list-style-type: none"> • dyndns.org • freedns.afraid.org • no-ip.com • camsec.net • inimdns.biz <p>By registering at one of these addresses, you will obtain the access data required in this programming section:</p> <ul style="list-style-type: none"> • Domain • User name • Password • Update every - interval (expressed in seconds) applied by the SmartLAN when upgrading the association of the selected domain with the public IP address. • Test DDNS account - button to start DDNS account verification (for "inimdns.biz" service only).
NTP client configuration	<ul style="list-style-type: none"> • Enable NTP synchronization - if enabled, the SmartLiving control panel clock will be synchronized by NTP, therefore, it will be necessary to indicate: • Server • Update every - this is the time, expressed in seconds, that elapses between successive time updates. 		
Modbus	<ul style="list-style-type: none"> • Enable Modbus - if enabled, the Modbus/IP service on SmartLAN/G will be activated; in this case it is necessary to indicate: • Port • Access Codes 		
Contacts	<p>You can save up to 20 e-mail contacts.</p> <p>The contacts can be saved in this page but can also be changed in other parts of the application (instructions follow).</p>		

Email parameter configuration	This section allows you to configure the parameters for outgoing e-mails generated by the activation or restoral of events with the "Memory" option enabled (refer to <i>paragraph 9-14 Events - Actions - Memory</i>).	
	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.
	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.
	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: <ul style="list-style-type: none"> • 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.
	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 also two presets. The presets can be selected from those listed after updating the dedicated section (refer to <i>paragraph 9-17-1 ONVIF cameras</i>). 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 SmartLAN board.	
Graphic map	This section will allow you to configure the graphic maps which the user has access to through the web interface (refer to <i>Chapter 11 - Graphic map configuration</i>).	
ONVIF camera management	This section will allow you to configure the Onvif cameras connected to the SmartLiving system (refer to <i>paragraph 9-17-1 ONVIF cameras</i>).	

ONVIF cameras 9-17-1

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













The SmartLAN/G board provides support for JPEG and MJPEG streams for surveillance cameras and allows users to retrieve and view video recordings and snapshots. 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 an occurrence (activation or restoral) of an event through the **Email configuration parameters** (see above)
- activate the **Record on SD** option (see above) for the viewing of recorded frames through a web interface
- using the SmartLeague software, configure the ONVIF camera in the SmartLiving system by selecting **SmartLAN configuration** from the tree structure on the left and then going to **Programming - ONVIF camera management** 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:

Option	
 	Buttons for the addition of a new camera or for the deletion of a selected camera.
Description	This is the description of the selected 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 multimedial 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: <ul style="list-style-type: none"> •  - 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: <ul style="list-style-type: none"> •  - 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 presets 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 frame of the camera selected after pressing the  button. Clicking on the image opens window for the viewing of filming in real-time, control of the camera functions and visualization of the available presets.
Include Security Header in messages	This option, if enabled, includes the "Security Header" in the SOAP messages for the communication with Onvif devices.

Wireless transceiver 9-18

Parts of the system	Programming section		
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers Nexus ⊖ SmartLiving System <ul style="list-style-type: none"> ⊕ Partitions ⊕ Terminals ⊕ Arming scenarios ⊕ Timers ⊕ Users ⊕ Telephone ⊕ Events ⊕ Voice messages ⊕ Icons ⊕ Association Shortcut-Icon SmartLAN settings <li style="background-color: #e0f0ff;">Wireless transceiver 	<p>The Wireless transceiver option from the system tree allows you to read/write the Air2-BS20 transceivers connected to control panel.</p> <p>It provides two sections:</p> <ul style="list-style-type: none"> • Wireless transceivers, for display of the transceivers and their enrolled devices • Sounderflasher and keypad data test, for a configuration test on all the keypads and sounderflashers detected by the system 		
	Wireless transceivers		<p>The "Read" button accesses the Wireless window where you can select the transceiver (from those in the system configuration) you wish to read.</p> <p>Following, in the Programming section, a number of boards appear, equal to the number of transceivers read; each board shows:</p> <ul style="list-style-type: none"> • the icons of the configured devices and terminals • the serial numbers of all the enrolled devices • the firmware version of the transceiver board <p>Furthermore, it is possible both to read and change:</p> <ul style="list-style-type: none"> • the wireless channel in use • the enablement of the open/dislodgement tamper protection • the enablement of the rolling code <p>The data relating to the wireless transceiver can be saved in the SmartLeague solution. Any changes will become operative only after the "write" phase.</p>
			<p>The "Read" button accesses the Wireless window where you can select the transceivers (from those configured) that must be programmed.</p> <p>In this way it is possible to replace Air2-BS20 transceivers quickly and without the need to re-enroll all the wireless devices.</p> <p>This procedure can be used only when the transceiver data has been previously read and saved in the SmartLeague solution.</p>
			<p>Button to start the guided cloning process for the wireless keys enrolled by the transceiver of the selected board.</p> <p>The guide allows you to indicate which transceiver, from those selectable, the cloned keys will be assigned to.</p>
	Sounderflasher and keypad data test	<p>This section lists the keypads and sounderflashers found or in the configuration with their respective configurations and the results of the consistency check between configurations.</p> <p>Refer to <i>paragraph 9-18-1 Sounderflasher and keypad data test</i>.</p>	

Sounderflasher and keypad data test 9-18-1

Click on the **Check consistency** button to initiate a cross-check between the devices (sounderflashers and keypads) in the control panel configuration, those recognized as wireless and those present on the wireless transceiver.

The outcome of this check will be displayed with a list of devices and their respective configurations:




- **In configuration**, for a device in the control panel configuration.
- **Wireless**, for a device recognized as a wireless device.
- **On transceiver**, for a device in the Air2-BS200 wireless transceiver configuration.

If an inconsistency is highlighted, the process provides a **Fix** button which restores a coherent situation after a request for confirmation.

The following table lists the various configuration conditions of the devices the software detects and, in the case of inconsistent conditions, the correction proposed by the **Fix** button:

Device condition detected	Combination of configurations			Outcome	
	In configuration	Wireless	On transceiver	Test result	Correction
Device is not configured and not detected (potential configuration available)	No	No	No	Fix	Device unenrolled from each configuration
Device enrolled by the transceiver but not in the control panel configuration.	No	No	Yes	Fix	Wireless device both in the control panel and transceiver configurations
Wireless device detected but not in the control panel configuration	No	Yes	No	Fix	Device unenrolled from each configuration
Wireless device detected and enrolled by the wireless transceiver but not in the control panel configuration	No	Yes	Yes	Fix	Wireless device both in the control panel and transceiver configurations
Device wired and in configuration	Yes	No	No	Ok	/
Device in both the control panel and wireless transceiver configurations but not detected	Yes	No	Yes	Fix	Wireless device both in the control panel and transceiver configurations
Wireless device in the control panel configuration only	Yes	Yes	No	Fix	Device unenrolled from each configuration
Wireless device configured correctly	Yes	Yes	Yes	Ok	/

Events log 9-19

Parts of the system	Programming section			
<ul style="list-style-type: none"> ⊕ Keypads ⊕ Proximity readers ⊕ Expansions ⊕ Sounderflashers — Nexus ⊖ SmartLiving System <ul style="list-style-type: none"> ⊕ Partitions ⊕ Terminals ⊕ Arming scenarios ⊕ Timers ⊕ Users ⊕ Telephone ⊕ Events ⊕ Voice messages ⊕ Icons ⊕ Association Shortcut-Icon — SmartLAN settings — Wireless transceiver <li style="background-color: #e0e0e0;">Events log 	The Programming section of the Events log allows you to view all the events saved to the control panel log. The lines on the table show the individual events and the columns show the following categories.			
	Group	Option		Note
	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		
	Events log from database		Button to save the contents of the events log to the database.	These buttons are active only when you are working on a solution or a database. In particular, the "Save" button becomes active only after a reading from the control panel.
		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.		

Chapter 10

MONITORING THE SMARTLIVING CONTROL PANEL

The SmartLeague provides a section where, after direct connection to the SmartLiving control panel (refer to *Chapter 4 - Connecting to the control panel*), it is possible to carry out real-time monitoring on the entire system.

Select the **Check control panel, Monitoring** option from the menu bar:

A window will open with a header showing the control panel model and its firmware version. The window has several sections, selectable by means of the tabs at the top, each relating to different parts of the system.

Remote keypad 10-1

In this section the window 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:

This refreshes the connection with the control panel and thus renew the images in the window.

REFRESH

This accesses a section relating the "thermostat" function on the JOY/MAX keypad.

THERMOSTAT ON KEYPAD

You can program the thermostat and also adjust its temperature setting and operating times.

The manual temperature setting and operating times can be implemented by means of the adjustment bars.

The **Temperature** box indicate the ambient temperature sensed by the thermostat on the JOY/MAX keypad which appears in this section.

Button to open, at the bottom of the window, a section where you can view the real-time status of the control panel.

CONTROL PANEL STATUS

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.

Partitions 10-2

This section, on the left, shows a list of icons which represent all the partitions the control panel zones are assigned to.

If you click on one of these icons, the right side of the window provides a section where you can view the status of the partition, its arming status and any tamper events.

After entering a valid code, the lower part of the window allows you to change the arming status of the partition and carry out partition reset operations.

Zones 10-3

This section is divided into three parts:

- The part on the left provides a list of all the partitions and the control panel zone groups.
- The part in the centre allows you to view the status of the zones which belong to the selected partition, the arming status of the zones and any tamper events.
The lower part provides a sub-section where, after entering a valid code, you can unbyypass or bypass the selected zone.
- The section on the right allows you to view the status of the outputs.
The lower part provides a sub-section where, after entering a valid code, you can activate or deactivate the selected output.

Timers 10-4

This section shows the 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).

Peripherals 10-5

The SmartLeague provides several sections for peripheral monitoring purposes. selectable by means of the headers on the upper part of the section. In each of these sections the peripherals are represented by icons.

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

PERIPHERALS

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

PERIPHERAL DETAILS

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 the IB100 BUS and Nexus communicator requires further selections achieved by ticking the respective check boxes.

Sounderflashers on BUS 10-6

The monitoring phase on the sounderflashers connected to the BUS provides feedback information regarding the sounderflashers and their descriptions.

The information is provided alongside the respective icon: if the sounderflasher is configured, the icon will be clear and accompanied by a description and the fault and tamper status icons, as follows:

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
		Sounderflasher undergoing programming

Hedera wireless sounderflashers 10-7

The **Real-time** programming section of a wireless sounderflasher allows you to view its status.

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

Option	LED colour	Status
Tamper	Green	Sounderflasher not in tamper status
	Red	Sounderflasher 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
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

BUS isolators 10-8

This section monitors the functional status of the isolators on the IB100 BUS.

Select an isolator from the check box at the top of the section, by means of its address, then press the **Refresh** button, the **Monitor isolator** section will show the real-time value of the voltage and the course of any disturbance on the line.

The course of any disturbance during the time the two sections of the line were divided by the isolator (BUS-A and BUS-B) will be shown on two graphs. An assessment of the functional capacity of the isolator can be achieved by comparing the two graphs.

A **Reset** button is available to clear and restart the graphs.

Walk test 10-9

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

Make the list of zones and the **Start Walk test** button.

Once the test starts, the installer can walk through the protected partitions and verify the proper detection capacity of all the inputs, by means of the information on the keypad display, or by means of the red dots and the time of the violations indicated in this section.

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

Chapter 11

GRAPHIC MAP CONFIGURATION



The SmartLiving supervision functions are based on graphic maps which can be accessed by the end-user through an Alien keypad or web interface.

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 maps. Each map accepts a maximum of 20 objects/buttons represented by icons.







The operationality of the graphic maps depends on the use of a micro-SD card. The card must be 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 SmartLAN/G Ethernet interface board for the web accessible maps.

Note

Parts of the system	Programming section										
<ul style="list-style-type: none"> [-] Keypads (1) <ul style="list-style-type: none"> Keyp. 001 (1) [-] Proximity readers [-] Expansions [-] Sounderflashers [-] Nexus [-] SmartLiving System <ul style="list-style-type: none"> [-] Partitions [-] Terminals [-] Arming scenarios [-] Timers [-] Users [-] Telephone [-] Events [-] Voice messages [-] Icons [-] Association Shortcut-Icon SmartLAN settings 	<p>Access to the configuration of the maps is achieved through the sections:</p> <ul style="list-style-type: none"> Alien keypad graphic maps - select the keypad from the tree structure on the left then go to Programming - Alien Maps on the right. Web interface graphic maps - select SmartLAN settings from the tree structure on the left then go to Programming - Graphic Maps on the right. <p>A box, located in the centre of both sections, shows the images of the current map. Above this is a bar with the icons of the objects to be inserted and the buttons to edit the current map.</p> <p>To the left of this you will find the graphic-map tree with the objects inserted.</p>										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Group</th> <th style="width: 45%;">Alien</th> <th style="width: 40%;">Web Interface</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Object icons</td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td></td> <td colspan="2"> <p>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.</p> <p>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 will allow you to resize or reposition it.</p> <p>Right-clicking on any one of the icons positioned on the map or map tree on the left will allow you to delete the object concerned or change its settings; in this case a window will open showing all the editable settings (refer to <i>paragraph 11-1 Parameters of the icons and objects</i>).</p> </td> </tr> </tbody> </table>	Group	Alien	Web Interface	Object icons				<p>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.</p> <p>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 will allow you to resize or reposition it.</p> <p>Right-clicking on any one of the icons positioned on the map or map tree on the left will allow you to delete the object concerned or change its settings; in this case a window will open showing all the editable settings (refer to <i>paragraph 11-1 Parameters of the icons and objects</i>).</p>		
Group	Alien	Web Interface									
Object icons											
	<p>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.</p> <p>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 will allow you to resize or reposition it.</p> <p>Right-clicking on any one of the icons positioned on the map or map tree on the left will allow you to delete the object concerned or change its settings; in this case a window will open showing all the editable settings (refer to <i>paragraph 11-1 Parameters of the icons and objects</i>).</p>										
		Button to show or hide the map tree located to the left of the displayed map.									
		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 an alignment of them.									
		The selection of several icons, by means of these buttons, will allow you to modify their size and give them the dimensions of the first icon selected (width, height or both).									
		None 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.									

	<p>Button to start the procedure which converts the entire graphic map tree to Alien keypad format and web interface format.</p> <p>The conversion process does not delete the configuration of the keypad maps but it overwrites the configuration of the SmartLAN/G maps.</p>	<p>Button to start the procedure which converts the entire graphic map tree to Alien keypad format and web interface format.</p> <p>A window will open which requests the keypad from those configured, and the model.</p> <p>The conversion process does not delete the configuration of the SmartLAN/G maps but it overwrites the configuration of the Alien maps.</p>
	<p>Button to start the procedure which duplicates the configuration of the graphic maps of the current Alien keypad and transfers it to other Alien keypads.</p> <p>A window will open which will request the keypads, from those configured, which the configuration will be transferred to.</p>	<p>None available</p>

Parameters of the icons and objects 11-1

Group	Option		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.	(for Alien only)
	String	Field for the string that appears over the icon.	
		Button to define 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 for the selection of the image that will replace the default image.	
		Button for the cancellation 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: <ul style="list-style-type: none"> • 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 allows you to visualize the status change on the display by means of an icon change, as selected in the Image section.	
		Button to reset the factory default settings.	

Chapter 12

PROGRAMMING THE SMARTLINK ADVANCED COMMUNICATOR

SmartLink Advanced system 12-1

Parts of the system	Programming section	
<ul style="list-style-type: none"> SmartLinkAdvanced System <ul style="list-style-type: none"> GSM Commands Terminals Scenarios Codes Telephone Events Voice messages Events log 	<p>The SmartLink Advanced system option, from the system tree on the left, allows you to program (in the Programming section) all the basic parameters of the SmartLinkAdv and that concern the system.</p> <p>Clicking on the respective node provides a list of all the individual items relating to the SmartLinkAdv programming process. Select the required item and program the respective parameters (refer to the following paragraphs).</p>	
	Group	Option
Installer code	Enroll	Button for installer PIN entry; this code is necessary when communication with the control panel is required. After entry of the Installer PIN, entry of a valid user code will be requested.
	Change	Button to change the installer code PIN; this code must be entered in the New PIN field, after indicating the old code in the Old PIN code.
	Show	Button to show codes entered without "*" masking.
Compatibility with EN50136-2	When this option is enabled, it activates the presetting of all the programming parameters necessary to guarantee compliance with EN50136-2.	
Anti-intrusion functions	Enable intrusion control function	If enabled, this option activates the "anti-intrusion" functions of the SmartLinkAdv communicator, thus setting it up as an intrusion control panel.
	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 will generate alarms instantly if they are not in standby status when the system arms.
	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 will generate alarms instantly if violated when the SmartLinkAdv arms.
	Entry Time 2	This is the window for the second Entry time.
	Autoreset memory on arming	If enabled, the partition alarm and tamper memory will reset automatically when the partition arms.
	Clear call queue on disarm	If enabled, the call queue will clear when the partition disarms.
Date/Time Options	Editable field for the system date and time. You can set the time of the computer in use by means of the Set local time button, then write it on the SmartLinkAdv by means of the Write to control panel button.	
	Set local time	This button sets the local time of the PC in use.
	Automatic Daylight Saving Time	This option enables changeover to Daylight Saving Time and back.
	Write to/Read from control panel	Buttons to read the date on the SmartLinkAdv and write settings.





Periodic events	Text fields to set the date and time of the first occurrence of each one of the 3 "Periodic events" (see <i>paragraph 12-7 Events - Options</i>). You can transfer the setting to the control panel by means of the Write to control panel button.	
	Time of periodic event	This parameter allows you to set the interval between "Periodic events" (expressed in minutes or hours). To disable the "Periodic event", set "0".
GPRS parameters	Access point name (APN)	This is the field for the name of the GPRS provider.
	Advanced	This button opens a window for the user's name and password, sometimes required by the provider. If these details are not required, these fields can be left blank.
	Server address (URL)	This is the IP address of the server (standard IPv4) the SmartLinkAdv connects to. It is the same IP address where the SmartLeague application awaits the incoming GPRS connection for the SmartLinkAdv; you can indicate the address in octets or strings.
	Port	This field is for the server connection port, usually provided by the network administrator.
	Connection name	This is the descriptive string of the connection. This parameter is necessary for Teleservice requests via SMS text message and must have between 4 to 16 characters.
Landline volume	Outgoing voice volume	Volume adjustment field to higher/lower the volume of voice messages during playback over the phone.
	Outgoing tone volume	Volume adjustment field to higher/lower the volume of the outgoing DTMF tones.
GSM volume	Balancing	This option allows you to rectify the correlation between input volume/output volume.
	Input volume	The volume adjustment bar allows you to select the volume of the incoming signal to the SmartLinkAdv.
	Output volume	This option allows you to select the volume of the output signal from the SmartLinkAdv to recipient telephone devices.
Options	Low battery delay	This parameter allows you to program the delay, expressed in minutes, which will be applied before "LowBattery" events are signalled.
	Mains failure signal delay	This parameter allows you to program the delay, expressed in minutes, between mains failure and the "Mains failure" fault event signal.
	Enable jamming detector	If enabled, this option allows the "jamming detector" function to generate a "Jamming" event when a source of wireless interference is found to be disrupting wireless transmission and inhibiting the operating capacity of the GSM network device.
	Enable tamper protection	If enabled, this option allows tamper signalling on the SmartLinkAdv.

GSM Commands 12-2

Parts of the system	Programming section			
<ul style="list-style-type: none"> SmartLinkAdvanced System <ul style="list-style-type: none"> GSM Commands Terminals Scenarios Codes Telephone Events Voice messages Events log 	Group	Option		
	GSM Com- mands	This section allows you to configure up to 200 actions which can be activated by incoming telephone calls or SMS messages, or both. If a telephone call (voice) or SMS message is received from the telephone number, the action, selected from those programmed in the Actions list will be activated.		
		N°	Identifies the number of the action on the visualized table.	
		Telephone num- ber	When the SmartLinkAdv receives a call from this telephone number it will trigger the respective action.	
		Code	This field is for the association of a user code to the telephone number.	
		SMS text	This is the SMS command text (body) which activates the action.	
		Actions	This is the number that identifies the command to be carried out from the 50 actions programmed in the Actions list section.	
		Refuse call	Enabled - when the telephone number calls, the SmartLinkAdv will activate the associated command and, after doing so, will reject the call.	
			Disabled - when the telephone number calls, the SmartLinkAdv will not reject the call but will allow it to proceed normally in order to allow the answerphone (if duly programmed) to pick up the call after the programmed number of rings.	
	Receive diverted SMS	This option, when activated, enables the selected number to receive SMS messages diverted from the communicator which do not comply with the command-activation format. SMS "command" messages cannot be diverted.		
Actions list	This section allows you to view the 50 actions which can be activated, arranged in lines on a table. Double clicking on the line of each action opens a window where you can program the respective parameters.			
	Action	Identifies the number of the action on the visualized table.		
	Description	This is the description of the action.		
	Shortcut	This field will allow you to select one of the following shortcuts: <ul style="list-style-type: none"> • Arm/Disarm • Stop alarms • Clear call queue • Delete memory • Activate output • Deactivate output • Voice info • Status enquiry • Credit enquiry • GPRS client The "Arm/Disarm", "Stop alarms" and "Delete memory" shortcuts are available only when the "Enable intrusion control functions" option is enabled.		
		Selection menu for the parameter relating to the shortcut.		
	Shortcut param- eter	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 action feedback: <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • Buzzer - feedback is provided by an audible signal on the SmartLinkAdv buzzer. Positive outcome is indicated by a three short audible signals; negative outcome is indicated by five long audible signals. 			

Text for SMS messages	This section allows you to edit and program up to 100 SMS messages of up to 140 alphanumeric characters each. These messages can be associated with the events by means of the "SMS number" option described in <i>paragraph 12-7 Events</i> .	
	N°	Identifies the number of the SMS message.
	Text - Remaining characters	Editable field for the SMS text message. The number of characters available are available.
Residual credit	Enable residual credit check	If this option is enabled, you must also program the method the SmartLinkAdv will use to make residual-credit enquiries to the GSM provider. <ul style="list-style-type: none"> • Automatic - the SmartLinkAdv will make residual credit request to the GSM provider (regarding its own SIM) without need of programming. • Manual - the interrogation parameters to the provider and reply must be set up manually.
	Low credit threshold	If credit (expressed in local currency) drops below this limit, the SmartLinkAdv communicator will generate a "Low credit" event.
	Credit request interval	The interval, expressed in hours, which must pass between one automatic credit-request and another.
	Manual parameters - Request	<ul style="list-style-type: none"> • SMS - residual credit request will be made via an SMS text sent by the SmartLinkAdv to the provider. • Call - residual credit request will be made via a call which will be diverted by the SmartLinkAdv to the provider. • Network command - residual credit request 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 residual credit request. 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	<ul style="list-style-type: none"> • SMS - the provider will reply via SMS message. • Call - the provider will reply via call. • Answer number - this is the telephone number (made available by the GSM provider) the residual credit information will come from. This field must be programmed regardless of the selected manual mode (SMS, call or Network command). • Answer message - 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.
Supervision	Enable	Check box to enable the supervisory function. If this option is enabled, the SmartLinkAdv will test automatically the connection status of a remote device to the GSM network by means of a telephone call.
	Interval time	This is the length of time, expressed in hours or minutes, which must pass between two successive tests.
	Number of attempts	This is the number of failed calls that will be allowed before the SmartLinkAdv generates a "Failed supervision" event (from 1 to 15).
	Telephone number	This is the telephone number of the SmartLinkAdv the test is addressed to.

Terminals 12-3

Parts of the system	Programming section
<ul style="list-style-type: none"> SmartLinkAdvanced System <ul style="list-style-type: none"> GSM Commands Terminals Scenarios Codes Telephone Events Voice messages Events log 	<p>The Terminals option, from the installation tree on the left, accesses the graphic layout in the Programming section, of the PCB, its terminals and their use.</p> <p>Right clicking on the PCB allows you to assign a common setting to all the terminals on the board. Right clicking on a single terminal allows you to configure it separately.</p> <p>Once a terminal has been assigned a configuration, the "connected" icon will represent the resulting configuration:</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  Zone or Input </div> <div style="text-align: center;">  Output </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;">  Double zone </div> <div style="text-align: center;">  I/O or Input/Output </div> </div> <p>Double clicking the icon of a terminal with a configuration opens a window where you can program all the parameters of the selected terminal (refer to <i>paragraph 12-3-1 Zone / Input</i>, <i>paragraph 12-3-1 Zone / Input</i>).</p> <p>Click on the node of the Terminals option to view the sub-options provided by the two sections the terminals can be associated with: Zones and Outputs. Select either of these sections to access the respective table in which each line corresponds to a terminal and each column to a parameter of each terminal.</p>

Zone / Input 12-3-1

Group	Option	
Description	This is the editable label which identifies the zone. At default, each zone has the terminal description.	
Contact ID	Check box to indicate the Contact-ID code associated with the zone for the occurrence or restoral of events such as: <ul style="list-style-type: none"> • Zone alarm • Zone tamper • Zone real-time 	
Type	Dropdown box for the selection of the zone type: Instant, Delayed, 24hour, Technological, Arm, Disarm, Switch, Follow	
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).	
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.	
Configuration diagram	Button for to open a window showing the zone connection mode.	
"Generic" device 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.
	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 will allow before generating an alarm. Expressed in multiples of 15 milliseconds or minutes.
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: <ul style="list-style-type: none"> • yellow - tamper/short • green - standby • red - alarm • orange - double zone with one zone in alarm status and the other in standby status 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.	
Options	Interior	A zone that monitors the inside of the protected building. If the SmartLinkAdv is armed in Stay or Instant operating mode, the zone will not generate alarms when violated.
	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.
	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.
	Last exit zone	If this option is enabled, and the zone passes from standby 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.
	Silent call	If this option is enabled, zone activation will trigger the programmed telephone calls but will not generate visual signals on the yellow LED.
	Alternative channel for interface channel	If this option is enabled, zone activation will switch the programmed telephone calls to the alternative channel for 3 minutes. This option is valid only when both channels are active (PSTN and GSM network).

Output 12-3-2

Group	Option	
Description	This is the editable output label (device description). At default, each output has the terminal description.	
Output options	Normally closed	This is the condition of the output during standby status.
	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. If this option is enabled, it is possible to set the monostable time in the field below.
	Buzzer - beep 1KHz	When the output is activated, it will generate a 1Khz signal. This can be used to drive a buzzer.
	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.
	Do not deactivate on reset	The output will not restore when the activating event ends. This option is useful in situations which require a trigger event for output activation and a reset event for its deactivation. This option applies to bistable outputs only.
	Switch	Each time you perform an "activate output" command, the output will switch status. Therefore, if it is deactivated it will activate and vice versa.
Events	The Events option, from the table available under the Terminal, Outputs option opens a window containing a list of events which can activate the output. You can delete each individual event by clicking on Delete .	

Arming scenarios 12-4

Parts of the system	Programming section		Note
	The Scenarios option, from the installation tree on the left, accesses a table in the Programming section, in which each line corresponds to a scenario and each column to a parameter of each scenario. Instead, clicking on the node of the Scenarios option accesses a list of all the scenarios. Select the required scenario to view and program its parameters.		This option is available only when the Enable intrusion control functions option of the SmartLinkAdv is activated (refer to <i>paragraph 12-1 SmartLink Advanced system</i>).
	Description	Editable field for the description of the scenario.	
	Arming type	Check box for the selection of the operating mode of the scenario (armed or disarmed): <ul style="list-style-type: none"> • "-" the status of the SmartLinkAdv will not be changed. • Away - the SmartLinkAdv will be fully armed. • Stay - the SmartLinkAdv will be partially armed. • Instant - the SmartLinkAdv will be armed in instant mode. • Disarm - the SmartLinkAdv will be switched off. 	
	Output	Check box for the selection of an output that will activate when the scenario is applied.	

Codes 12-5

Parts of the system	Programming section			
	The Codes option accesses a table, in the Programming section, where each line corresponds to a code and each column corresponds to a parameter for each code.			
	Group	Option		
	Description	This is an editable field for the code user's name.		
	Enable arming management	If this option is enabled, the code will be allowed to manage arming/disarming operations.		
	Click on the node of the Codes option to access a list of all the codes. Select the required code to view and program its parameters.			
	Shortcut activation	Shortcut	This section allows you to associate a shortcut with each of the number keys on the telephone keypad (0 to 9), which will activate when the key is pressed.	
		Shortcut parameter	Selection menu for the parameter relating to the shortcut.	
	Change user PIN	Change	Button to change the user code PIN; this code must be entered in the New PIN field, after entering the old code in the Old PIN field.	
		Show	Button to show codes entered without "*" masking.	

Telephone 12-6

Parts of the system	Programming section																									
<ul style="list-style-type: none"> SmartLinkAdvanced System <ul style="list-style-type: none"> GSM Commands Terminals Scenarios Codes <li style="background-color: #e0f0ff;">Telephone Events Voice messages Events log 	Selection of the Telephone option from the installation tree on the left, accesses two sections in Programming section: <ul style="list-style-type: none"> The Telephone section: a table where each line corresponds to a telephone number and each column corresponds to a parameter for each number. The Events option, from the table available opens a window containing a list of events which can activate the phone call. You can delete each individual event by clicking on Delete. Telephone parameters section: allows you to program the parameters of the telephone line, telephone diallers and teleservice, as follows. 																									
	Telephone line parameters	<table border="1"> <thead> <tr> <th data-bbox="523 436 730 481">Group</th> <th colspan="2" data-bbox="730 436 1540 481">Option</th> </tr> </thead> <tbody> <tr> <td data-bbox="523 481 730 542">Dial-tone check</td> <td data-bbox="730 481 893 542"></td> <td data-bbox="893 481 1540 542">The control panel will engage the telephone line and check for the "dial tone"; if present, the control panel will start dialing.</td> </tr> <tr> <td data-bbox="523 542 730 602">Telephone line fault alert</td> <td data-bbox="730 542 893 602"></td> <td data-bbox="893 542 1540 602">If a "Telephone line fault" occurs, the SmartLinkAdv will activate the red LED.</td> </tr> <tr> <td data-bbox="523 602 730 674">Double call</td> <td data-bbox="730 602 893 674"></td> <td data-bbox="893 602 1540 674">The SmartLinkAdv will override the answerphone function. Option available only for PSTN calls.</td> </tr> <tr> <td data-bbox="523 674 730 757">Generates 50 Hz rings instead of 25 Hz</td> <td data-bbox="730 674 893 757"></td> <td data-bbox="893 674 1540 757">Option which enables telephone devices connected to the SmartLinkAdv to generate 50Hz rings (differently to other telephones).</td> </tr> <tr> <td data-bbox="523 757 730 842">Number of rings for answerphone</td> <td data-bbox="730 757 893 842"></td> <td data-bbox="893 757 1540 842">This value determines the number of rings the system allows before picking up an incoming call (from 1 to 15).</td> </tr> <tr> <td data-bbox="523 842 730 938">Incoming tone sensitivity</td> <td data-bbox="730 842 893 938"></td> <td data-bbox="893 842 1540 938">This number value determines the sensitivity of ring recognition of telephone calls to the SmartLinkAdv. At default this value is set at 60. Accepted values: 1 to 120.</td> </tr> <tr> <td data-bbox="523 938 730 1025">Landline line-down signal delay</td> <td data-bbox="730 938 893 1025"></td> <td data-bbox="893 938 1540 1025">This parameter allows you to program the delay, expressed in seconds, between the onset of a PSTN linedown fault and the actual activation "PSTN Linedown fault" event signal.</td> </tr> </tbody> </table>	Group	Option		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 line fault alert		If a "Telephone line fault" occurs, the SmartLinkAdv will activate the red LED.	Double call		The SmartLinkAdv will override the answerphone function. Option available only for PSTN calls.	Generates 50 Hz rings instead of 25 Hz		Option which enables telephone devices connected to the SmartLinkAdv to generate 50Hz rings (differently to other telephones).	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).	Incoming tone sensitivity		This number value determines the sensitivity of ring recognition of telephone calls to the SmartLinkAdv. At default this value is set at 60. Accepted values: 1 to 120.	Landline line-down signal delay		This parameter allows you to program the delay, expressed in seconds, between the onset of a PSTN linedown fault and the actual activation "PSTN Linedown fault" event signal.
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Telephone communicator parameters		<table border="1"> <tbody> <tr> <td data-bbox="730 1025 893 1111">Call all voice numbers</td> <td data-bbox="893 1025 1540 1111">If several voice calls - generated by the same event - are waiting in the outgoing call queue, the SmartLinkAdv will try to call all the voice telephone numbers.</td> </tr> <tr> <td data-bbox="730 1111 893 1173">Call all digital numbers</td> <td data-bbox="893 1111 1540 1173">The same as "Call all voice numbers", but related to alarm receiving centres.</td> </tr> <tr> <td data-bbox="730 1173 893 1258">Access DTMF menu without code</td> <td data-bbox="893 1173 1540 1258">When the SmartLinkAdv sends voice calls, this option allows users access to the shortcuts over-the-phone using the parameters and enablements assigned to the last user code (code 10).</td> </tr> <tr> <td data-bbox="730 1258 893 1321">Enable landline answerphone</td> <td data-bbox="893 1258 1540 1321">This option activates the "Answerphone" function on the PSTN line.</td> </tr> <tr> <td data-bbox="730 1321 893 1384">Enable GSM answerphone</td> <td data-bbox="893 1321 1540 1384">This option activates the "Answerphone" function on the GSM line.</td> </tr> <tr> <td data-bbox="730 1384 893 1447">Start message after dialling</td> <td data-bbox="893 1384 1540 1447">The control panel will start the voice message 5 seconds after dialling the respective contact number.</td> </tr> <tr> <td data-bbox="730 1447 893 1509">Confirm call with *</td> <td data-bbox="893 1447 1540 1509">The control panel will consider the voice call successful when the recipient presses "*" on the telephone keypad.</td> </tr> <tr> <td data-bbox="730 1509 893 1550">No SIA strings</td> <td data-bbox="893 1509 1540 1550">The descriptive strings will not be sent in SIA reporting format.</td> </tr> <tr> <td data-bbox="730 1550 893 1635">Arm/Disarm inverted on Contact-OD</td> <td data-bbox="893 1550 1540 1635">Arm/Disarm events with CONTACT-ID protocol will send the "New event/Event activation" code when armed, and the "Event ended/Event restored" when disarmed.</td> </tr> <tr> <td data-bbox="730 1635 893 1720">Number of voice mess. repetitions</td> <td data-bbox="893 1635 1540 1720">This value determines the number of times the voice message will be played during the call (from 1 to 15).</td> </tr> <tr> <td data-bbox="730 1720 893 1803">Number of attempts</td> <td data-bbox="893 1720 1540 1803">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).</td> </tr> </tbody> </table>		Call all voice numbers	If several voice calls - generated by the same event - are waiting in the outgoing call queue, the SmartLinkAdv will try to call all the voice telephone numbers.	Call all digital numbers	The same as "Call all voice numbers", but related to alarm receiving centres.	Access DTMF menu without code	When the SmartLinkAdv sends voice calls, this option allows users access to the shortcuts over-the-phone using the parameters and enablements assigned to the last user code (code 10).	Enable landline answerphone	This option activates the "Answerphone" function on the PSTN line.	Enable GSM answerphone	This option activates the "Answerphone" function on the GSM line.	Start message after dialling	The control panel will start the voice message 5 seconds after dialling the respective contact number.	Confirm call with *	The control panel will consider the voice call successful when the recipient presses "*" on the telephone keypad.	No SIA strings	The descriptive strings will not be sent in SIA reporting format.	Arm/Disarm inverted on Contact-OD	Arm/Disarm events with CONTACT-ID protocol will send the "New event/Event activation" code when armed, and the "Event ended/Event restored" when disarmed.	Number of voice mess. repetitions	This value determines the number of times the voice message will be played during the call (from 1 to 15).	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).	
Call all voice numbers	If several voice calls - generated by the same event - are waiting in the outgoing call queue, the SmartLinkAdv will try to call all the voice telephone numbers.																									
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Other parameters	GSM priority for local calls	If selected, all calls from local devices will be switched to the GSM network.	
	Enable Zone 2 to control the local telephone channel	If terminal 02 is set up as a "zone" the communication channel will depend on the status of this input: <ul style="list-style-type: none"> • zone in alarm - GSM channel • zone in standby - PSTN channel If the GSM priority over local telephone calls option is enabled, the communication channel will be as follows: <ul style="list-style-type: none"> • zone in alarm - PSTN channel • zone in standby - GSM channel 	
	Signal GSM network fault	If a "GSM network fault" occurs, the SmartLinkAdv will activate the red LED.	
	Remove digits	Number of digits to be removed from the prefix of each telephone number sent over the GSM network.	This option is valid only for calls generated by the telephone interface.
	Add prefix	Prefix comprising numbers, "*" and "#" to be added to each telephone number sent over the GSM network.	

A list of all the contact numbers can be accessed via the **Telephones** section or by clicking on the node relating to the **Telephone** option. Select the required number to view and program the respective parameters.

Node	Group	Option
SmartLinkAdvanced System <ul style="list-style-type: none"> GSM Commands Terminals Scenarios Codes Telephone <ul style="list-style-type: none"> Number 001 Number 002 Number 003 Number 004 Number 005 	Description	This is an editable field for the code user's telephone number, to be customized by the installer.
	Type	Telephone number type: <ul style="list-style-type: none"> • 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): <ul style="list-style-type: none"> • Ademco 10bps, Ademco 14bps, Franklin 20bps, Radionics 40bps, Scantronic 10bps, CONTACT-ID, SIA-IP
	Account code	This is the 4-character alphanumeric code which identifies the caller in reports to the Alarm Receiving Centre.
	Telephone number	Editable field for the contact number (maximum 20 digits). Accepts also ", " (= 2 second pause), "*" and "#".
	Channel	This section allows you to select the channel for the priority routing of a call in the event of incoherent programming or in the event of the failed accessibility of the communication device: <ul style="list-style-type: none"> • PSTN • GSM
	Receive SMS	This option allows the telephone number to receive an SMS message from the SmartLinkAdv, as well as all other programmed event-related communications.
	Encryption	This field allows you to select the SIA-IP protocol encryption type: <ul style="list-style-type: none"> • None • AES 128 bit • AES 192 bit • AES 256 bit After selecting the type is is necessary to indicate the encryption key.
	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.

Events 12-7

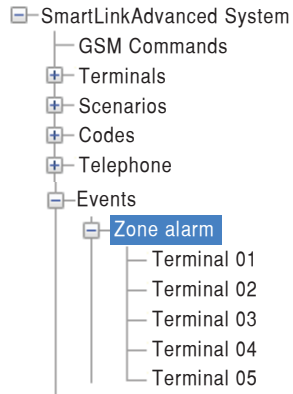
Parts of the system	Programming section	
SmartLinkAdvanced System <ul style="list-style-type: none"> GSM Commands Terminals Scenarios Codes Telephone Events Voice messages Events log 	The Events option, from the system tree, allows you to access the Programming section where you will find buttons for the management of the actions associated with event activations and restorals.	
	Group	Option
	Reset default	Button to reset the default values of the digital communicator for all the events.
	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.
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.	


Click on the node of the **Events** option, from the system tree on the left, to access the list of all the event types. The Event Type option accesses a table, in the **Programming** section, in which each line corresponds to an event and each column corresponds to a parameter for each event.

A right click in this section allows you to carry out the following operations on the boxes of the selected column:

- Activate the selection of all boxes
- Deactivate the selection of all boxes
- Invert the selection of all boxes

Click on the node of the Event Type to access a list of all the events. Select the required event to view and program the respective parameters.







Node	Group	Option	
SmartLinkAdvanced System	Telephone actions	The actions are arranged on lines in a table, each line has 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 restores.	
	Notification via GSM	Enable SMS mess.	When the event occurs, the control panel will send an SMS message to all the duly enabled telephone numbers (refer to <i>paragraph 12-6 Telephone, "Receive SMS"</i> parameter).
		Automatic SMS	If enabled, the dispatched SMS message will consist of the event description contained in the Events log.
		SMS number	If the "Automatic SMS mess." option is not activated, an SMS message from the 100 available will be sent (refer to <i>paragraph 12-2 GSM Commands, "Text for SMS messages"</i> parameter).
	Output actions	The actions are arranged on lines in a table, each line has a check box for the activation of the output when the event occurs and a check box for the activation of the output when the event restores.	
	Voice communicator		This section allows you to program the voice message associated with the activation/restoral of the event. This message is a combination (to be selected by the installer) of the messages that, when necessary, will be played back in the following order: <ol style="list-style-type: none"> 1. "Restoral" - plays when the event restores 2. Type - indicates the event type 3. Message A 4. Message B 5. Send address - plays the message associated with the registered address You can view the sequence of messages in the table on the right of the section, and listen to them by pressing the respective button  . You can select individual messages by means of the check boxes on the left.
		Automatic dialer	If this option is enabled, the system will configure an optimal sequence of the messages for the activation/restoral of the event. You can select different messages from those proposed, but the option enabled in this way imposes a limited selection in accordance with the event type.
		Digital communicator	
	Digital communicator	Class code	This is the CONTACT-ID reporting format Class-Code which corresponds to the event.
		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).
		SIA protocol	If the event is associated with calls using SIA protocol or SIA-IP, this parameter will allow you to program the event code in accordance with SIA standard by selecting it from the list.
	Options	Clear call queue	When the event occurs, the system will cancel the outgoing call queue.
		Memory	If this option is enabled, activation/restoral of the event will be saved to the events log.
		Force on 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 <i>paragraph 12-6 Telephone</i>).
		Silent event	If the event occurs, the system will generate silent calls which will not be signalled on the yellow LED.
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.	

Voice messages 12-8

Parts of the system	Programming section	
<ul style="list-style-type: none"> [-] SmartLinkAdvanced System <ul style="list-style-type: none"> [-] GSM Commands <ul style="list-style-type: none"> [+] Terminals [+] Scenarios [+] Codes [+] Telephone [+] Events [+] Voice messages [-] Events log 	The Voice messages option, from the system tree, allows you to access the Programming section where you will find buttons for the read/write phases of all the voice messages.	
	Group	Option
	Read all messages from the control panel	Button to read from the SmartLinkAdv all the messages on the voice board.
	Write all messages on the control panel	Button to write all the programmed voice messages on the SmartLinkAdv.




Click on the node of the **Voice messages** option, from the system tree on the left, to access the list of all the message types. The Message type option accesses a table, in the **Programming** section, in which each line corresponds to an individual message and each column corresponds to a parameter of each message.

Node	Group	Option		
<ul style="list-style-type: none"> [-] Voice messages <ul style="list-style-type: none"> [+] Pre-recorded messages [+] Arming scenario messages [+] Zone messages [+] Shortcut messages [+] Event Type messages [-] Free messages 	Buttons		Button to start the text-to speech process of the messages selected in the table. The texts entered in the Text to speech section will be converted into audio files and associated with the selected messages.	
			Button to open a window for text-to-speech setting changes.	
			Button to reset to default programming the audio files of the messages selected in the table.	
			Button to playback the audio file associated with the message.	
	Options	Nr.	Message index inside the voice board memory.	
		Description	This is an editable field for the message description.	
		Time	This is the duration of the associated audio file (expressed in seconds).	
		Text to speech	Text of the associated audio file.	

Click on the node of the Message Type option to access a list of all the messages. Select the required message to view and program the respective parameters.

Node	Group	Option
<ul style="list-style-type: none"> [-] Voice messages <ul style="list-style-type: none"> [+] Pre-recorded messages [+] Arming scenario messages [+] Zone messages [+] Shortcut messages [+] Event Type messages [-] Free messages <ul style="list-style-type: none"> [+] Free 1 [-] Free 2 [-] Free 3 [-] Free 4 [-] Free 5 	Message category	This is the message type the selected message belongs to.
	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: <ul style="list-style-type: none"> • Load an audio file (.wav) • Play the loaded audio file • Record a new audio file • Reset the selected file to default
	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 actual conversion and association with the message will not occur until the Text to speech operation has been carried out (in this section is can be done by means of the record button).

Events log 12-9

Parts of the system	Programming section		
	The Programming section of the Events log allows you to view all the events saved to the SmartLinkAdv log. The lines on the table show the individual events and the columns show the following categories.		
	Group	Option	Note
	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		
	Category	Logic grouping of events	These buttons are active only when you are working on a solution or a database. In particular, the "Save" button becomes active only after a reading from the control panel.
SmartLinkAdvanced System <ul style="list-style-type: none"> GSM Commands Terminals Scenarios Codes Telephone Events Voice messages <li style="background-color: #e0e0e0;">Events log 	Events log from database	 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.	

MONITORING THE SMARTLINKADV COMMUNICATOR

The SmartLeague provides a section where, after direct connection to the SmartLinkAdv communicator (refer to *Chapter 4 - Connecting to the control panel*), it is possible to carry out real-time monitoring on the entire system.

Access to this section can be achieved through the **Monitoring** section, at the side of **Programming** section, or by selecting **Control panel, Monitoring** from the option bar menu.

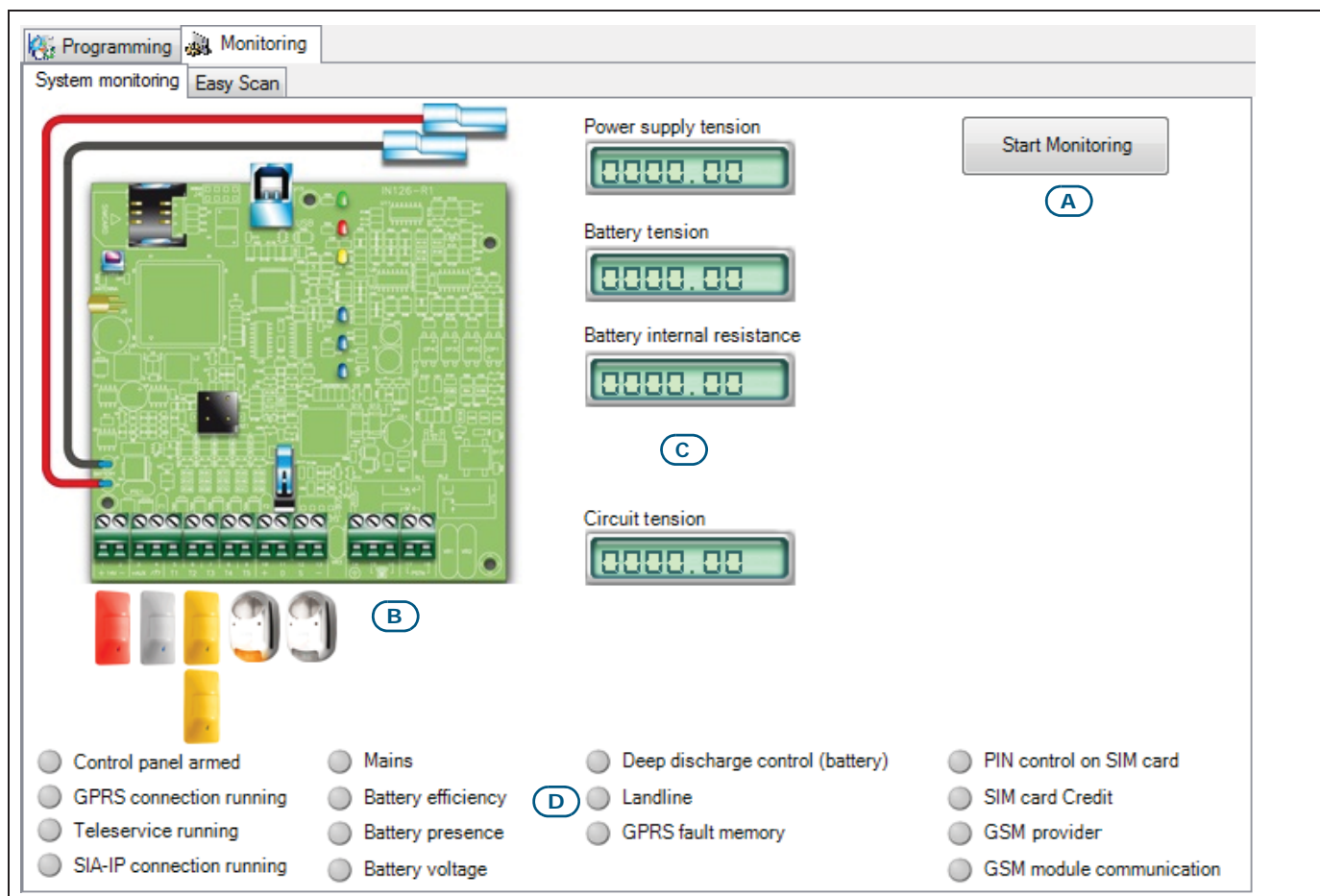
the section provides two sub-sections, which can be accessed by selecting the respective label:

- **System monitoring** - for real-time monitoring of the system
- **Easyscan** - automatic search for the best GSM service provider in the area

System monitoring 13-1

This section provides the **Start Monitoring** button which, when connected to the SmartLinkAdv, allows you to view the system parameters and values in real-time.

The visualization is arranged in the following way:



A	Start/Stop monitoring button to start/interrupt real-time monitoring operations
B	Graphic images of the SmartLinkAdv board with the icons which represent the status of the terminals. The terminal status buttons are shown only when the respective terminals are configured. In which case, the icons will be arranged from left to right starting from terminal "1" to "5"; double zones will be indicated by two icons, one above the other.
C	System power-supply voltage readings as detected in different points on the circuit: <ul style="list-style-type: none"> • Power supply voltage to terminals "+ 14V -", measured in Volt • Voltage of the battery connected to the battery wires, measured in Volt • Internal resistance of the battery connected to the battery wires, measured in Ohm • Internal voltage of the SmartLinkAdv board, in Volts
D	Table with icon/LED which represent the status of the respective operating parameters of the SmartLinkAdv and active connections

Terminal	Icon	Status
Input/zone		Alarm signalling active.
		Zone tamper is active.
		Standby status
Output		Standby status
		The output has been activated.

Icon	Status
	An alarm has been signalled.
	Zone tamper has been detected.

Option	LED colour	Status
Control panel armed	Green	System armed.
	Grey	System not armed.
GPRS connection running	Green	Connection with SmartLinkAdv via GPRS active
	Grey	Connection via GPRS not active.

Option	LED colour	Status
Teleservice running	Green	Teleservice via GPRS active and running.
	Grey	Teleservice via GPRS not active.
SIA-IP connection running	Green	Ongoing transmission of data in SIA-IP protocol via GPRS.
	Grey	No ongoing transmission of data in SIA-IP protocol.

Mains voltage	Green	Voltage normal, operative status normal
	Red	Ongoing mains failure
Battery efficiency	Green	Battery operating normally, operational status normal.
	Red	Battery fault present.

Battery presence	Green	Battery connected
	Red	Battery not found or disconnected.
Battery voltage	Green	Battery voltage normal.
	Red	Low battery voltage

Deep discharge test	Green	Battery operating normally, operational status normal.
	Red	Deep discharge shutdown
GPRS fault memory	Green	Successful GPRS connection.
	Red	Failed GPRS connection. The cause of this error is indicated in the space below the message by means of the error code as shown in the table in <i>paragraph 4-1 Connection via GPRS</i> .

Land line	Green	PSTN line operating normally, operating status normal
	Red	PSTN line fault

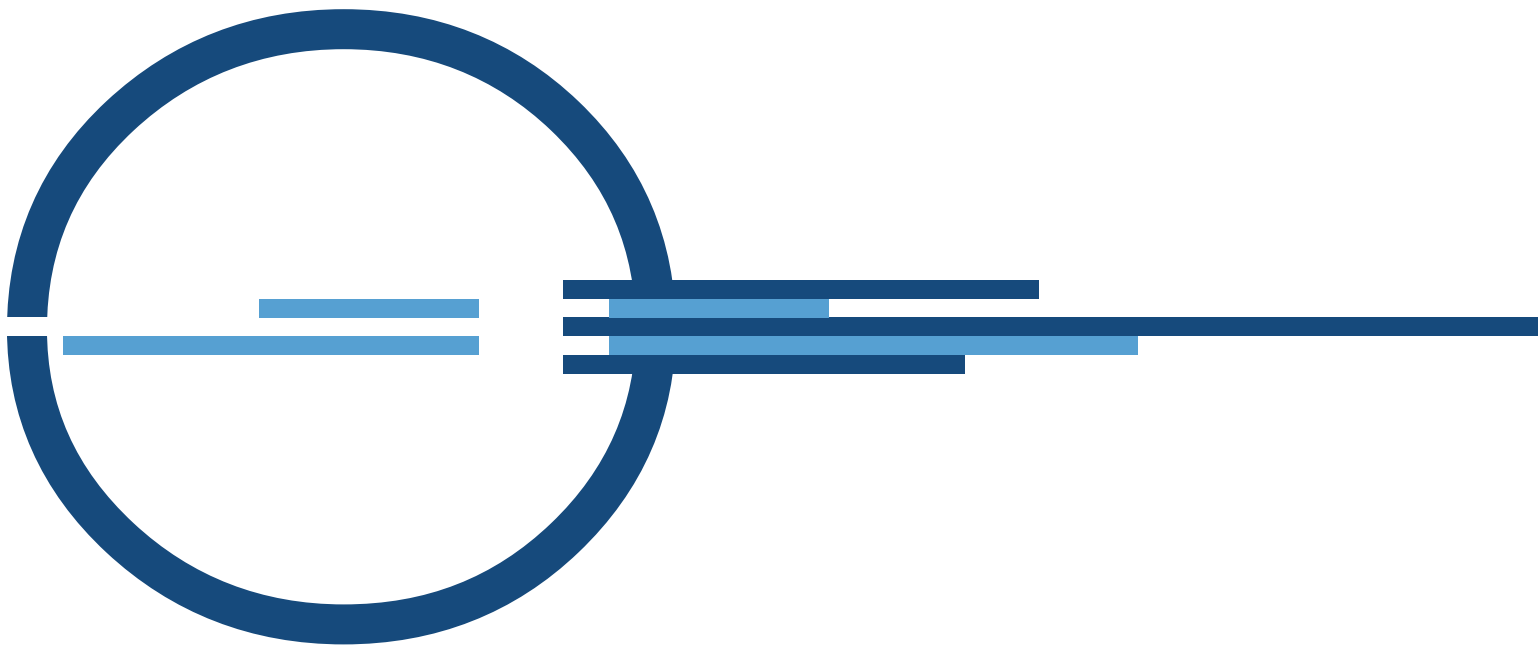
SIM card PIN check	Green	SIM card PIN check deactivated.
	Red	SIM card PIN check active, card unable to function.
SIM card credit	Green	Sufficient credit on SIM card.
	Red	Low credit on SIM card.

GSM operator	Green	GSM network provider present.
	Red	GSM network provider not found.
GSM module communication	Green	GSM module communication active and functional.
	Red	GSM module communication fault present.

Easyscan 13-2

Group	Option		Note
Buttons	Connect/Disconnect SmartLink	Button to start/close the SmartLeague communication with the SmartLinkAdv GSM module.	
	Start Easyscan	Button to start the GSM signal reception scan.	Active only when the connection is active.
GSM service provider section	Most suitable cell	Section which, once the scan is complete, provides a list of the GSM service providers found in the area.	GSM signal providers with best signals
	Other suitable cells	This list provides indications of the signal reception strength starting with the best signal to the worst.	GSM signal providers with weak signals
Provider parameters	Operator	Identifier of the GSM provider.	
	Level	GSM signal strength available for the provider.	1 - 100
	Cell	Identifier of the GSM cell the signal of the provider is coming from	
	MCC, MNC, ARFCN	GSM signal parameters supplied by the service provider	

Notes



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