





**FlexIO** 



# **GameOver**

# E L E C T R O N I C S



INSTALLATION

AND

PROGRAMMING

MANUAL



INIM Electronics s.r.l. (Seller, Our, Us, ) warrants the original purchaser that this product shall be free from defects in materials and workmanship under normal use for a period of 24 months. As INIM Electronics s.r.l. does not install this product directly, and due to the possibility that it may be used with other equipment not approved by Us; INIM Electronics s.r.l. does not warrant against loss of quality, degradation of performance of this product or actual damage that results from the use of products, parts or other replaceable items (such as consumables) that are neither made nor recommended by INIM Electronics. Seller obligation and liability under this warranty is expressly limited to repairing or replacing, at Seller's option, any product not meeting the specifications. In no event shall INIM Electronics s.r.l. be liable to the purchaser or any other person for any loss or damage whether direct ot indirect or consequential or incidental, including without limitation, any damages for lost profits, stolen goods, or claims by any other party caused by defective products or otherwise arising from the incorrect or otherwise improper installation or use of this product.

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage arising from improper maintenance or negligence
- damage caused by fire, flood, wind or lightning
- vandalism
- fair wear and tear

INIM Electronics s.r.l. shall, at its option, repair or replace any defective products. Improper use, that is, use for purposes other than those mentioned in this manual will void the warranty. Contact Our authorized dealer, or visit our website for further information regarding this warranty.

INIM Electronics s.r.l. shall not be liable to the purchaser or any other person for damage arising from improper storage, handling or use of this product.

Installation of this Product must be carried out by qualified persons appointed by INIM Electronics. Installation of this Product must be carried out in accordance with Our instructions in the product manual.

The information contained in this document is the sole property of INIM Electronics s.r.l. No part may be copied without written authorization from INIM Electronics s.r.l.

All rights reserved.

Hereby INIM Electronics s.r.l. declares that the SmartLiving series of intrusioncontrol panels, the Air2 series of devices and the SmartLink product are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/CE.

Moreover, INIM Electronics s.r.l. also declares that all other devices mentioned in this manual are in compliance with the essential requirements and other relevant provisions of Directive 2004/108/CE.

The full declarations of conformity can be found at URL: <u>www.inim.biz/dc.html</u>.

The devices described in this manual, in accordance with the settings selected during the installation phase and the following illustrated guidelines are, alternatively, in compliance with the the Italian Normative CEI 79-2:1998+Ab:2000 performance level 2 or European Normative CEI EN 50131-3:2009 (in reference to Control and indicating equipment - intrusion control panels) and CEI EN 50131-6:2008 (in reference to Power supplies) security grade 2.

In support of research, development, installation, testing, commissioning and maintenance of intrusion alarm systems installed in buildings please refer to the following normative documents:

CEI 79-3 e CEI CLC/TS 50131-7.

When installing INIM systems, it is up to the installer company to install systems equipped with Normative CEI 79-2 compliant devices rather than devices compliant with European Normatives series EN50131 within and not over the DOWs summarized in amendment CEI 79-2;V1:2010.

Installation and Programming Manual

#### Warranty

#### Limited Warranty

#### Copyright

European Directive compliance

State-of-the-art Installations (DM 37/08)

# Table of contents

	Warranty2Limited Warranty2Copyright2European Directive compliance.2State-of-the-art Installations (DM 37/08)2Table of contents3
0-1 0-2	About this manual
Chapter 1 1-1 1-2 1-3 1-4 1-5 1-6	General information6Manufacturer's details6Description of the product and various models6Patents Pending6Manuals7Operator Qualifications7Conventions – Glossary7
Chapter 2 2-1 2-2 2-3	Private The Control panel and peripherals 8   Environmental Conditions 8   SmartLiving intrusion control panels 8   Peripherals 12
Chapter 3 3-1 3-2 3-3 3-4 3-5 3-6 3-7 3-8 3-9 3-10 Chapter 4	BInstallation16Installing the control panel16Connecting peripherals21Addressing the peripherals24Auto-enrolling peripherals26Wiring and balancing alarm detectors26Wiring and balancing rollerblind/shock sensors28Connecting wireless detectors29Learn Zone Balancing29Connecting the outputs29Attachment boards30
Chapter 4	
Chapter 5 5-1 5-2 5-3	Installation project via SmartLeague software
Chapter 6 6-1 6-2 6-3 6-4	Options and programming methods37Introduction37Programming from a keypad (Accessing the installer menu)37Programming via the SmartLeague software38Panel options38

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6-5	Term	ninals	
6-6	Zone	es 42	
6-7	Outp	buts	
6-8	Tele	phone	
6-9	Ever	nts	
6-10	Time	er	
6-11	Parti	tions	
6-12	User	Codes	
6-13	Insta	aller codes	
6-14	Keys	57	
6-15	Armi	ing scenarios	
6-16	Shor	tcuts	
6-17	Expa	ansions	
6-18	Keyp	oads	
6-19	Read	lers	
6-20	Sour	nderflashers	
6-21	Lang	juage	
6-22	Mess	sages	
6-23	Defa	ult settings	
6-24	User	functions	
6-25	Othe	er parameters	
Chapter 7		Errors and faults	
7-1	Com	munication BUS (I-BUS)	
7-2	LED	activity	
7-3	Ring	Sensitivity	
•			
Appendix	A	Technical terminology and Glossary	
Appendix	В	Shortcuts at default	
Appendix	С	Available Icons	
Appendix	D	Voice messages	
Appendix	Е	Screw Terminals	
Appendix	F	Combination of outputs triggered by events	
Appendix	G	Compliancy	
Annondix	ц	Order Codes	
треник	11 NI -	Oruci Coues	
	Note	es	

## ABOUT THIS MANUAL

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MANUAL CODE

0-1

**ABOVE, BELOW** 

LEFT, RIGHT, BEHIND,

**QUALIFIED PERSONNEL** 

3.00 VERSION

## Terminology

The main supervisory unit and any constituent parts of the SmartLiving intrusion **CONTROL PANEL, SYSTEM, APPARATUS** 

Directions as seen by the operator when directly in front of the mounted device:

A communicator device which sends voice calls or digital reports to programmed **DIALER** contact numbers in the event of an alarm:

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

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

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

## Graphic conventions 0-2

Following are the graphic conventions used in this manual.

Conventions	Example	Description
Text in italics	Refer to paragraph 4.3 Unpacking the device	Indicates the title of a chapter, section, paragraph, table or figure in this manual or other published reference.
<text></text>	# <accountcode></accountcode>	Editable field
[Uppercase letter] or [number]	[A] or [1]	Reference relating to a part of the system or video object.
BUTTON	0 _, F1 Fn, OK	Keypads keys

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

The "Attention" prompts indicate that total or partial disregard of the procedure could damage the device or its peripherals.

The "DANGER" warnings indicate that total or partial disregard of the procedure could injure the operator or persons in the vicinity.

Similarly marked dialogue boxes contain recommendations and/or guidelines which the manufacturer wishes to call attention to.

#### Note

PRESS

#### ATTENTION!



# Chapter 1

## GENERAL INFORMATION

Manufacturer's details **1-1** 

Manufacturer:	INIM Electronics s.r.l.
Production plant:	Via Fosso Antico - Centobuchi
	63033 Monteprandone (AP) - Italy
Tel:	+39 0735 705007
Fax:	+39 0735 704912
e-mail:	info@inim.biz
Web:	www.inim.biz
Any persons authorize	ed by the manufacturer to repair or r

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

## Description of the product 1-2 and various models

Description:

Models:

Intrusion control panel SmartLiving 505 SmartLiving 515 SmartLiving 1050 SmartLiving 1050L SmartLiving 10100L

Year of manufacture: 2010

## Patents Pending 1-3

The SmartLiving series of control panels employs the following INIM-patented technologies.

- Input/Output Terminals: each terminal on-board the control panel, JOY and nCode keypads and FLEX5 expansion boards can be configured as either an input or output zone (Split terminal technology).
- **nBy/X proximity reader**: this reader has been especially designed to flushmount to all models of electrical light-switch backboxes.
- Learn zone balancing: this option allows the control panel to save the balancing values of all the system zones automatically, thus eliminating the tedious task of typing them in.

#### 1-4 Manuals

#### 1 - 4 - 1Installation and **Programming Manual** (this manual)

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This Manual can be obtained directly from the product manufacturer. You (the installer) should read carefully through it and should be familiar with all the components and operating procedures of the SmartLiving system. In order to provide adequate protection, the installer must adhere to all the manufacturer's quidelines relating to the active and passive security devices of this system. It is the installer's responsibility to inform the system users that, regardless of its capabilities, an intrusion alarm system is not a substitute for the necessary precautions building occupants must take to prevent intrusion.

#### 1-4-2 User's Manual

The installer should read carefully through the User's Manual (supplied with each control panel). Once the system has been installed, you must ensure that the User's Manual is available to the users for consultation, and that they fully understand how the system works and are aware of all the functions, settings and procedures.

#### 1-5 **Operator Qualifications**

## Installer

User

The installer is the person (or group of persons) who sets up and programs the entire security system in accordance with the purchaser's requirements and in respect of the safety laws in force. As the only individual in contact with system users, it is the installer's responsibility to instruct them on how to use the security system properly.

Under normal circumstances, the installer is not allowed to arm/disarm the system without previous authorization from the user. All the system partitions must be disarmed before accessing the parameter programming phase.

The users are the occupants of the building where this intrusion control panel is installed. Only authorized users can operate the system.

The most common operations can be carried out without code/key verification. This method must be expressly requested by the main user, as it considerably lowers the security level of the system and may cause false alarms, accidental arm/disarm operations, etc.

## **Conventions – Glossary**

In order to help users understand the terminology utilized in this manual and improve your knowledge of this system and its operating procedures, read carefully through the Technical Terminology - Glossary (refer to Appendix A, Technical terminology and Glossary).

The appendix contains the definitions of technical terms commonly used in the field of security, therefore, relevant to the SmartLiving system.

General information

1-5-2

## 1-6

7

1-5-1

# Chapter 2

## THE CONTROL PANEL AND PERIPHERALS

## Environmental Conditions 2-1

All control panels from the SmartLiving series are for indoor installation only, and operate best under the following conditions:

- Temperature: from -10° to +40°C
- Maximum humidity: 75% (without condensation)

The JOY/GR, JOY/MAX, FLEX5 and nBy/X keypads are for indoor installation only, and operate best under the following conditions:

• **Temperature**: from -10° to +40°C

• Maximum humidity: 75% (without condensation)

The nBy/S reader is suitable for indoor or outdoor installation, and operates best under the following conditions:

- Temperature: from -10° to +40°C
- Maximum humidity: 75% (without condensation)
- Protection grade: IP34

# SmartLiving intrusion control 2-2 panels

#### Package contents 2-2-1

Inside the package you will find:

- Metal enclosure containing the motherboard and power supply (adapter or switching power supply)
- User's Manual
- Quick Installation Guide
- Plastic bag containing the following:

Table 1: Package contents					
	505	515	1050	1050L	10100L
3k9 $\Omega$ 1/4W Resistors	1	0		20	
6k8 $\Omega$ 1/4W Resistors	10 20				
Backup-battery wire	1				
Screws to secure the frontplate of the metal enclosure			4		
"INIM Electronics security-protected area" sticker			1		



Items not included in the package:

Thermal probe (battery-charge optimizer which operates in accordance with the battery temperature), backup battery, SmartLeague program CD, Installation Manual. These devices are accessory items which must be purchased separately.

Table 2: Control r

rical enocification

## Control panel descriptions 2-2-2

Table 2. Control panels - electrical specifications and mechanical reactives					
	SmartLiving 505	SmartLiving 515	SmartLiving 1050	SmartLiving 1050L	SmartLiving 10100L
Power supply voltage		230	IV ~ -15% +10% 50/6	0Hz	
Max. current draw	0.	2A	0.	3A	0.6A
Max current. @ 12V	1.	2A	3	A	5A
Max. battery-charge current	1	A	2A		
Backup battery	12V 7Ah		12V 17Ah		
Max. current across +AUX terminals	900	ImA	4.05A (1.35A per +AUX1, 1.35A per +AUX2, 1.35A per +AUX3		35A per +AUX3)
Enclosure Dimensions (W x H x D) cm	21.5 x 30.5 x 8.5		37.5 x 51 x 8.5		
Weight (without battery) Kg	2	.5	2.2	5	.3

The metal enclosures of SmartLiving 505, 515 and 1050 control panels provide housing for backup batteries:  $1 \times 7Ah$ , max. dimensions  $21.5 \times 30.5 \times 8.5$  cm. The metal enclosures of SmartLiving 1050L and 10100L control panels provide

housing for backup batteries:  $1 \times 17$ Åh, max. dimensions  $37.5 \times 51 \times 8.5$  cm. The control panel label (see figure opposite) is located inside the enclosure.

The following table shows the maximum number of devices supported by the various control panel models.

Table 3: Control panel - Main Features

	SmartLiving intrusion control panels				
	505	515	1050	1050L	10100L
Total terminals	5	15	5	0	100
Terminals on panel		5		10	
Terminals on panel		5		10	
configurable as inputs		5		10	
Terminals on panel			2		
Configurable as Rollerblind/ Shock			2		
Terminals on panel					
configurable as outputs		0		5	
Total zones	10	30	10	00	200
Outputs on panel motherboard			3		
Relay outputs on panel motherboard	1				
Open-collector outputs	2 2				
	(150	)mA)		(500mA)	1
Partitions		5	1	0	15
Keypads (JOY, nCode/G, Concept/GN)		5	1	0	15
Voice memo slots		5	1	0	15
FLEX5 Expansions	5	10	2	0	40
nBy Readers	1	.0	2	0	30
Transceivers Air2-BS100	1	.0	2	0	30
Digital keys and keyfobs	50 100		150		
IB100 isolators	15				_
Codes	30 50		100		
Scenarios			30		
Timer		1	.0		20
Recordable Events		5	00		1000



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SMARTI	IVING 51	5 04/20	10
inim	Alimentazione / Power Tension / Alimentacion	230V~ -15% + 10% 50/60 Hz	15
	Consumo / Consumption Consommation / Consumo	0.2 A	I4ASLIV
	Classe di Isolamento / Insulation class Insulation class / Clase aislante	I	LBDTIN
			_

SMARTI	LIVING 10	<b>50</b> 04/20	10
inim	Alimentazione / Power Tension / Alimentacion	230V~ -15% + 10% 50/60 Hz	/50
ELECTRONICS	Consumo / Consumption Consommation / Consumo	0.3 A	14ASLIV
	Classe di Isolamento / Insulation class Insulation class / Clase aislante	I	LBDTIN



SMARTLIVING10100L 04/2010					
inim	Alimentazione / Power Tension / Alimentacion	230V~ -15% + 10% 50/60 Hz	/100L		
	Consumo / Consumption Consommation / Consumo	0.6 A	14ASLIV		
	Classe di Isolamento / Insulation class Insulation class / Clase aislante	I	LBDTIN		

The SmartLiving control panels are not equipped with built-in dislodgement-tamper microswitches. For the order code of this accessory item, refer to *Appendix H, Order Codes*.

#### Note

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#### Table 4: Control panels - description of parts

	Model					
	505	515	1050	1050L	10100L	
Α	Power Adaptor	(Transformer)	3A switching power supply 5A switching power supply			
В		Mains connection	terminal-board (23	80 Vac) - 50/60 Hz		
С	Power cable - "adaptor to control panel" Power cable - "switching-power-supply to panel"				upply to panel"	
D			Power cable - "	'switching-power-s	upply to panel"	
E			Mains cable entry			
F			Metal enclosure			
G		Anchor-screw	locations for the r	netal backbox		
Н		Dislodgeme	nt-tamper microsw	itch location		
I			Backup battery			
J		E	Backup-battery wir	e		
K		Bac	kup-battery conne	ctor		
L		Therm	al probe (accessory	y item)		
M	<b>.</b>	The	ermal probe connec	ctor		
N	Thermal probe (enabled/disabled) jumper					
0		Connectors for t	he SmartLAN powe	er-supply jumper		
P		Lo	ocal I-BUS connect	or		
Q		Serv	vice jumper connec	tors		
R		SmartLog	os30M voice-board	connector		
<u></u> т	Dia					
	Dis	lougement-tamper	microswitch conne		ern)	
v	0		nanel tamper micro	switch	11)	
w		Open	Terminal board	JSWITCH		
x		Blue	and vellow activity	I FDs		
Y		Fi	rmware version lab	pel		
Z		AUXRE	L32 board screw lo	cations		
A1		Gro	und connection scr	ews		
B1		FLEX5/U	J expansion board	locations		
C1		Smartl	ink board screw lo	cations		
D1		SmartLink antenna cable entries				
E1		SmartL	ink board battery l	housing		

#### Table 5: Control panel - terminal board

	Icon/		Model			
	Identifier	505	515	1050	1050L	10100L
1	ŧ		E	arth connectio	n	
2-3			Internal te	elephone-line o	connection	
4-5	PSTN		Land-li	ne connection	(PSTN)	
6-7-8-9	+ D S -		I-BUS	connection ter	minals	
10-11-12	NO NC COM		Voltage-free t	erminals of th	e relay output	
13	+AUX		12V ancilla	ry power sour	ce terminal	
14-15	OC1 OC2		Open-colle	ctor output ter	minals (x2)	
16	+AUX		12V ancilla	ry power sour	ce terminal	
17-19- 21-23-25	ф	Negative power terminals (Negative or GND)				
18-20- 22-24-26	T1-T2-T3- T4-T5	Screw terminals for control panel input terminals: T1, T2, T3, T4 and T5				
27	+AUX		12V ancilla	ry power sour	ce terminal	
28-29	AC	Transformer-power input terminals				
28-30- 32-34-36	T6-T7-T8- T9-T10	Screw terminals: T6, T7, T8, T9 and T10 of the control panel			8, T9 and T10 nel	
29-31- 33-35	ф	Negative power terminals (Negative or GND)				
37	+AUX		12V ancillary power source terminal			

#### SmartLiving 505/515 control-panel



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SmartLiving 505/515

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SmartLiving 1050

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SmartLiving 10100L

#### Installation and Programming Manual

Peripherals

The control panel I-BUS accommodates the following peripherals:

- Keypads (JOY/GR, JOY/MAX, nCode/G, Concept/GN)
- Readers (nBy/S and nBy/X)
- Expansions (Flex5)
- Transceiver (Air2-BS100)
- Sounder/Flasher (Ivy)
- IB100 isolators

## Joy/GR and Joy/MAX Keypads 2-3-1

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Table 6: Device Specifications				
	JOY/GR JOY/MAX			
Maximum Voltage [V]	16V			
Typical current draw [mA]	70 90			
Terminals configurable as OC outputs	2			
Maximum current draw per terminal [mA]	150			
Dimensions (W x H x D) [mm]	142 x 116 x 20			
Weight [g]	160 180			

#### Table 7: Joy - Description of parts

Α	Terminal board
В	Buzzer
С	Microphone (Joy/MAX only)
D	Temperature sensor (Joy/MAX only)
E	Open-tamper microswitch
F	Backlit graphic display
G	Signaling LEDs
Н	Antenna (Joy/MAX only)
I	Speaker-wire connector (Joy/MAX only)
J	Wire entry
К	Wall-mount screw locations
L	Speaker housing
М	Board supports
Ν	Dislodgement-tamper microswitch screw location
0	Dislodgement-tamper microswitch spring

Keypad terminals:

#### Table 8: Joy - Terminal board

n.	Icon/ Identifier	Description	
1	+	Terminal "+" for the I-BUS connection	
2	D	Terminal <b>"D"</b> for the I-BUS connection	
3	S	Terminal "S" for the I-BUS connection	
4	-	Terminal "-" for the I-BUS connection	
5	T1	T1 Screw terminal of keypad terminal T1	
6	ф	Negative power terminal (Negative or GND)	
7	T2	Screw terminal of keypad terminal T2	
8	ф	Negative power terminal (Negative or GND)	

Terminals T1 and T2 can be configured as:

- Input (also as Rollerblind or Shock)
- Output
- Double zone
- Supervised Output

The keypad package contains a sticker (to be located under the keypad flip) which can be used to note down the keypad address or label, its location, the partitions it controls and phone-contact numbers.

JOY keypad motherboard (I)

2-3



#### **JOY keypad backplate**





107		n
O A01	O A09	
O A02	O A10	
O A03	O A11	
O A04	O A12	
O A05	O A13	
O A06	O A14	
O A07	O A15	
O A08	<b>函 丫</b>	

## nCode/G and Concept/G Keypads

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Table 9: Device Specifications

	nCode/G	Concept/G
Maximum Voltage [V]	16V	
Typical current draw [mA]	70 80	
Terminals configurable as OC outputs	1	
Maximum current draw per terminal [mA]	150	
Dimensions (W x H x D) [mm]	87 x 129 x 18	
Weight [g]	135 155	

#### Table 10: nCode/G and Concept/G -**Description of parts**

Α	Backlit graphic display		
В	Signaling LEDs		
С	Cable connector		
D	Tamper microswitch		
E	Screw location		
F	Screw location		
G	Terminal board guide		
Н	Buzzer		

Code/G and Concept/G keypads are equipped with a buzzer and a T1 terminal which can be configured as:

- Input (also as Rollerblind or Shock) •
- Output
- Double zone •

You can connect Code/G and Concept/G keypads using the connector on the back of the device, via either the 6 wire cable (included), or the KB100 terminal board included in the deep-bracket kit (accessory kit).

#### Table 11: Brackets - Description of parts

I	Wire entry			
L	L Wall-mount screw locations			
м	Flush-mount screw locations			
N	Backlocking grips			

6 wire cable

	Mour	nting br	acket	
N	M			

#### KB100 - terminal board



	Table 12: Connection cables - KB100 terminal board			
n.	Wire colour	KB100 terminal board	Description	
1	Red	+	Wire/Terminal "+" for the I-BUS connection	
2	Yellow	D	Wire/Terminal "D" for the I-BUS connection	
3	Green	S	Wire/Terminal "S" for the I-BUS connection	
4	Black	-	Wire/Terminal "-" for the I-BUS connection	
5	Blue	T1	Wire/terminal of keypad terminal T1	
6	Black	ф	Negative power wire/terminal (Negative or GND)	

## 2-3-2

nCode/G keypad frontplate





#### KB100 - deep mounting bracket





**Retro keypads** 



#### Readers - nBy/S and nBy/X

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#### Table 13: Device specifications

	nBy/S	nBy/X
Maximum Voltage [V]	16	
Typical current draw [mA]	40	35
Dimensions (W x H x D) [mm]	64 x 80 x 17	19 x 50 x 51
Weight [g]	45	25

#### Table 14: **nBy - Description of parts**

Α	Terminal board
В	Buzzer (nBy/S only)
С	LED
D	Antenna
E	Optical sensors for open-enclosure and dislodgement tamper

#### Reader terminals

Table 15: nBy - Terminal board							
n. Icon/ Description							
1	+	Terminal "+" for the I-BUS connection					
2	D	Terminal "D" for the I-BUS connection					
3	S	Terminal "S" for the I-BUS connection					
4	-	Terminal "-" for the I-BUS connection					



## Flex5 expansion boards



The Flex5 expansion board enclosure is available in two versions.

- Flex5/P comes in the enclosure shown above. This version can be set up to monitor dislodgement and open-enclosure tamper by inserting a jumper into connector [D], as shown.
- Flex5/U comes in an enclosure with on-view terminals and address DIP-Switch, as shown opposite. It is evident that this version offers little protection to the terminals. The jumper of connector [D] enables/disables protection against open and dislodgement tamper of the plastic enclosure only.

Table 16: Device Specifications						
	FLEX5/P FLEX5/					
Maximum Voltage [V]	16					
Typical current draw [mA]	30					
Max. current across +AUX terminals [mA @13.8V]	300					
Dimensions with enclosure (W x H x D) [mm]	125 x 79 x 26 105 x 58					
Weight with enclosure [g]	103	66				



2-3-4

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The packages of both versions of the Flex5 expansion board contain:

- Flex5 expansion board in a plastic enclosure
- Dislodgement/Open tamper jumper
- 10 resistors @3K9Ω 1/4W
- 10 resistors @6K8Ω 1/4W

#### Table 17: Flex5 - Description of parts

Α	Terminal board
В	Buzzer
С	DIP-Switch strip for peripheral device addressing
D	Connector to enable peripheral tamper detection
E	Dislodgement tamper microswitch
F	Open-tamper microswitch
G	Peripheral activity LED (where present)

Peripheral activity LED signals are as follows:

- fast blinking peripheral operative and enrolled (in configuration)
- slow blinking peripheral operative but not enrolled (not in configuration)

The Flex5 expansion board terminals are as follows:

#### Table 18: Expansion terminal board

n.	Icon/ Identifier	Description
1-2-3-4	+ D S -	I-BUS connection terminals
5-6	+AUX	12V ancillary power source terminals
7-9-11- 13-15	T1-T2-T3- T4-T5	Screw terminals for expansion terminals: T1, T2, T3, T4 and T5
8-10-12- 14-16	ф	Negative power terminals (Negative or GND)

Terminals T1, T2, T3, T4 and T5 can be configured as:

- Input (Rollerblind or Shock for terminals T1, T2, T3 and T4 only)
- Output
- Double zone
- Supervised Output

#### Transceiver for Air2-BS100 2-3-5

The Air2-BS100 two-way wireless system integrates directly with all models of the INIM intrusion control panel range.

Description of the Air2 system devices:

- Air2-BS100 wireless transceiver module
- Air2–IR100 passive infrared detector
- Air2–MC100 magnetic contact/rollerblind/exit
- Air2–KF100 4 button remote-control keyfob

For a complete description of all these devices refer to the Air2-BS100 Installation Guide.

#### IVY Sounder/Flasher 2-3-6

The self-powered sounders from the IVY outdoor series are controlled continuously by a microprocessor which monitors all the device parameters to ensure performance and reliability at all times.

For a complete description of all these devices refer to the Sounder installation manual.

#### IB100 isolators 2-3-7

Isolators from the IB100 series peripherals can be connected directly to the I-BUS, in order to increase both its length and performance.

Each isolator has 4 input terminals and 4 output terminals for the BUS connection with the following functions:

- Galvanic Isolation, up to 2500V, for the entire BUS between input and output.
- Regeneration of the communication signals.
- Detection of anomalies towards the output section and its consequent isolation.

For a complete description of all these devices refer to the respective installation manual.



#### Installation and Programming Manual

## In

# Chapter 3

## INSTALLATION

## Installing the control panel

## Wall-mounting

The control panel should be located in a hidden place that can be accessed by authorized building occupants only.

- 1. Using the backbox (*Table 4: Control panels description of parts, G*), mark the anchor screw locations on the wall. Be sure not to drill in the vicinity of electrical wiring or plumbing/gas pipes, etc.
- 2. Insert the screw anchors (recommended size 6mm).
- 3. Pull the wires through the wire sleeving.
- 4. Using the screws, attach the backbox to the wall.
- 5. Fit the dislodgement-tamper microswitch (provided with SmartLiving 1050L and 10100L, optional for SmartLiving 505, 515 and 1050, refer to *Appendix H, Order Codes, TamperNO*).
  - 5.1. Insert the dislodgement-tamper bracket [A] into its location on the backbox of the control panel (*Table 4: Control panels description of parts, H*).
  - 5.2. Using screw location [B], screw the bracket to the wall.
  - 5.3. Connect the wire coming from the dislodgement-tamper microswitch [C] to the connector [D] on the board (*Table 4: Control panels description of parts, T*).

The sleeving must be flame class rating V-1 or higher.





#### Note

3-1-2

#### Connecting the Mains power supply

The control panel must be powered through a separate line coming from the Mains box. The line must be protected by a safety standards compliant circuit breaker (trip switch).

The circuit breaker (trip switch) must be located externally to the apparatus and should be easily accessible. The distance between contacts must be at least 3mm. The manufacturer strongly advises the use of a magnetothermic switch with C intervention curve and nominal (maximum) current - 16A.

The protective earthing system must be compliant with all safety standards and laws in force.

Ensure that the Mains is switched Off during the mains connection phase. Danger of electric shock.

#### The 505 and 515 models

Pull the mains (primary power-supply) cable through the cable entry [B], then complete the (Mains) connections on the mains terminal board [A]. When connecting the earth wire, follow the indications on the label [C] located near the mains terminal board. The transformer (located above the PCB) and switching power supply (housed inside the control panel enclosure) provide the power source to the entire system and supply the charge voltage to the backup battery.

#### The 1050, 1050L and 10100L models

Pull the cable through the cable entry [E], then connect the mains power to the power-supply terminal board [D], located on the backplate above the motherboard. When connecting the earth wire, follow the indications on the power-supply label [F]. The power-supply provides power to the system and supplies the charge voltage.

DANGER!



Α

Installation and Programming Manual

SmartLiving 1050

**(E)** 

(D) (F)

#### Connecting the backup battery

SmartLiving1050L

The backup battery [A] connection must be completed during the phase described in Chapter 4 - First power up.

The SmartLiving 505, 515 and 1050 control panels house one lead battery @12V 7Ah.

The SmartLiving 1050L and 10100L house two lead batteries, one @12V 17Ah and the other @12V 1.2Ah.

The battery casing must have HB flame rating or higher.

Using the battery wire [B] (included), connect the battery directly to the control panel motherboard.

Ensure that battery polarity is correct: - black wire = negative - red wire = positive

The backup battery is the secondary power source which powers the system during mains failure (230Vac, 50Hz).

Once powered up, the panel will charge and monitor the batteries automatically. The panel tests the efficiency of the batteries by simulating load current demand at regular 4 minute intervals.

If the battery fails to meet the demand, the system will generate a "Low Battery" fault.

This fault will be signaled on the yellow LED on the keypads. To view the event details, work through the following steps:

**A** 

Type-in Code (User) (ок), View (ок), Faults (ок).

E

/06t IN-125200-01

#### SmartLiving 505/515

#### SmartLiving 1050

D C

**E** 

Note

Faults

Low battery

#### **ATTENTION!**











D



0 2

1)

3-1-4

## Thermal probe

The battery charge process can be optimized by means of a thermal probe [C] (accessory item). This device regulates the charging process in accordance with the battery temperature. The thermal probe protects against battery overheating and consequent permanent damage to the battery.

To connect a thermal probe, work through the following steps.

- 1. Disconnect the battery (if necessary).
- Connect the thermal probe to the connector on the board [D]. If you are installing a model which is equipped with a switching power supply (Smart-Living 1050, 1050L and 10100L), you can connect the thermal probe directly to the power supply connector.
- 3. If you are installing a SmartLiving505 or 515 model, remove the jumper on the motherboard to enable the thermal probe (refer to *Table 4: Control panels description of parts, N*).
- 4. Using adhesive-insulating tape, attach the thermal probe to the battery [E], in such way as to provide optimized heat-transfer measurements.
- 5. Hold a thermometer against the probe, and measure the probe temperature.
- 6. Using the following graph, find the value the measurement will be based on.





5A switching power supply



 Using a tester, measure the voltage on the +AUX terminals and adjust the trimmer [F] to the previously measured value.

#### Opening and closing the control panel

If you wish to remove the metal frontplate, work carefully through the following steps.

- 1. Type-in the installer code and press **ok**. Access to the installer menu inhibits the alarm outputs and dialer automatically, therefore, the system will be unable to generate alarms or event calls.
- 2. Remove the four screws and the metal-frontplate.
- 3. Insert the Service jumper (refer to paragraph *3-1-9 Maintenance status*) and carry out the necessary work.

Once your task is complete, work carefully through the following steps.

- 1. Remove the Service jumper.
- 2. Using the 4 screws, secure the frontplate to the backbox.
- 3. Exit the installer menu.

If you exit the Installer menu before replacing the panel frontplate, the system panel will not generate an "Open-panel" event. However, the system will generate an "OpenPanel" event, if the frontplate is not replaced

within 15 seconds of closing the open-tamper microswitch.

#### Land-line connection (PSTN)

Terminals 4 and 5 on the control panel motherboard (*Table 5: Control panel - terminal board, 4-5*) are for the land-line telephone connection.

If you are installing the system in a place where the land line (PSTN) service is not available, or if you wish to increase the level of security of the system, these

#### Note

3-1-5

3-1-6

3A switching power supply



terminals also accept a GSM interface (such as Inim's SMARTLINK) which simulates the analogue land-line.

Inim manufactures two versions of the SMARTLINK GSM Interface: SMARTLINKG and SMARTLINKGP. Both these devices simulate the analogue land line during line-down conditions (line trouble or wire-cutting) and allow the control panel to switch incoming/outgoing calls to the GSM network.

You can also use the terminals on the SmartLink board to extend the functions provided by the SmartLiving system. The following section describes several methods which will allow you to provide users with advanced functions.

## Arming/Disarming the system over-the-phone using a cost-free call or SMS text

If you connect one of the SmartLiving board terminals, which is configured as a "follow zone", to an output on the SmartLink board, users will be able to arm or disarm ("ARM ON" or "DISARM OFF") the SmartLiving system by sending an SMS text (refer to paragraph 3.12 in the SmartLink programming manual).

In a similar way, using a "switch zone", users will be able to arm or disarm the system by calling the control panel (refer to "Caller ID" in paragraph 3.9 in the SmartLink programming manual).

#### Alarm warning to users via SMS text

If you connect one of the control-panel alarm outputs to an input on the SmartLink board, the system will be able to send users alarm warnings via SMS text (refer to paragraph 3.10 in the SmartLink programming manual). The system can be set up to send an editable SMS text to 10 different contact numbers.

All the functions of the SmartLiving system which use the land line (voice dialer, answerphone, report communications and teleservice) can be managed completely over the GSM network by the SmartLink. The SmartLink will also allow you to carry out teleservice maintenance over the GSM network.

If there are ADSL filters on the line, it will be necessary to connect the control panel downstream of the filters, to the line dedicated to telephone equipment (this line is clearly indicated on the filters).

#### Connecting to a PC

The control panel can be programmed from a PC by means of the SmartLeague software application (refer to paragraph 6-3 *Programming via the SmartLeague software*) and an RS232 serial cable.

Insert the RS232 serial link (accessory item) into the connector [A], as shown in the figure opposite.

If you wish to purchase an RS232 serial link, refer to the codes in *Appendix H, Order Codes*. If your PC is not equipped with an RS232 port, but has a USB instead, you can use INIM's Approved RS232-USB adaptor (accessory item).



Control panel

Note

3-1-7





3-1-8

#### Connecting the SmartLogos30M voice board (accessory item)

The SmartLogos30M voice board provides the SmartLiving system with an array of useful voice functions.

For proper installation of the board, work carefully through the following steps.

- 1. Disconnect all power sources to the control panel (mains and lead batteries).
- 2. Connect the board to the respective connector [B].
- 3. Power up the system from the mains and reconnect the lead batteries.



#### Maintenance status 3-1-9

There are two distinct positions for the Service jumper (*Table 4: Control panels - description of parts, Q*):

- 1. "RUN" (control panel operating normally)
- 2. "SERV" (control panel ready for maintenance work)

The keypads indicate maintenance status (jumper in "SERV" position) by showing the "Maintenance" message on the first line on the display next to the keypad address. The address of the built-in reader (if enabled) of JOY/MAX keypads will also be shown.

Under these circumstances, the control panel:

- Forces the relay output on the motherboard (*Table 5: Control panel terminal board, 10-11-12*) to standby status.
- Does not activate the outputs (and will force to standby any active outputs) triggered by:
  - •• alarm or zone/partition tamper
  - •• peripheral tamper
  - •• open/dislodged panel tamper
- It allows initialization of the keypad address programming phase.
- It allows initialization of the reader address programming phase.
- It initializes automatically the auto-enrolment of the peripherals connected to the BUS at 10 seconds intervals. It allows assignment of the addresses to the peripherals connected to the BUS and, at 10 second intervals, enrolls the peripherals it finds.
- The control panel will not reset the BUS in an attempt to retrieve peripherals in the event of peripheral loss.
- It will continue to operate as normal, except under the aforesaid circumstances.





Cable AF CEI 20-22 II

4 wire cable + shield

6 wire cable +

shield

6 wire cable +

shield

## Connecting peripherals

#### The I-BUS line wiring

I-BUS

terminal

+ -

D S + -

DS

available

+ -

DS

available

The SmartLiving peripherals (keypads, readers, expansions, sounder/flashers, transceivers and isolators) must be connected to the control panel via the I-BUS. The wiring diagram opposite provides an example of a 4-wire connection (using shielded cable) between a control panel and its peripherals.

The cable specifications depend on the length of the BUS (from the panel terminals to the most distant point), Baud rate and the load current draw.

Table 19: Recommended cable

n. wires

2

2

2

2

2

2

2

2

Section

(mm<sup>2</sup>)

0.22

0.5

0.22

0.22

0.75

0.22

0.22

The maximum wire length of the I-BUS depends on the deployment of the
peripherals connected to the line and their specific current draw (in particular the
keypads and expansion boards). The power to peripherals and detectors can be
supplied by external power stations or by the line itself.

Furthermore, the speed of the communication BUS (Baud rate) can be modified by means of the SmartLeague programming software. If the BUS is not used to power the peripherals and their loads, the maximum wire length is 300 meters @ 250kbs, regardless of the number of peripherals involved.

An intermediate speed (125kbs) can support a single section of 700 meters.

# The shield must be connected to one of the r/r/r terminals (Negative or GND) at the control panel end only, and must run along the BUS without being connected to negative or GND at any other point.

If you wish to increase the length and performance of the BUS, you can connect  $\ensuremath{\mathsf{IB100}}$  isolators .

If the speed of the communication BUS (Baud rate) is low (38.4 or 125 kbps), you can apply a maximum of 5 isolators in a cascade connection.

If the speed of the communication BUS (Baud rate) is high (250 or 2 kbps), you can apply a maximum of 2 isolators in a cascade connection.

You can connect up to 15 isolators in all.

## It is extremely important to evaluate correctly the number of isolators connected in cascade to the BUS.

The following example will help you achieve a correct evaluation:



## 3-2-1

3-2



#### **ATTENTION!**

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## Installing JOY keypads

inim

- 1. Remove the keypad from its package.
- 2. Detach the down-flip and cover from the backplate.
- 3. Remove the board from the backplate. Be careful not to damage the dislodgement-tamper spring ([A]) during this operation.
- 4. Mark the chosen anchor-screw locations [B] on the wall. Use at least 2 of the 7 locations available. Drill the anchor-screw holes (ensure that you do not drill in the vicinity of electrical wiring or plumbing). Pull the BUS and terminal connection wires through the wire entry [C] and attach the back-plate securely to the wall.
- 5. Using the screw, fasten the dislodgement-tamper bracket into its screw location [D].
- 6. For JOY/MAX only: Plug the speaker connector [E] into the keypad circuit, ensure that polarity is correct (black wire to the right [F] and red wire to the left [G]). Be careful not to damage the connector during this operation. If it becomes necessary to separate the connector from the speaker, use a small screwdriver or similar tool to disengage it. DO NOT pull the connector out by the wires.



- 7. Place the circuit on the two lower supports [H] and, after aligning it with the other supports [I], push the back-locking grip [J] slightly outwards until it clicks closed. Be careful not to damage the dislodgement-tamper spring [A].
- 8. Replace the cover and down-flip. If necessary, secure the two screws into their screw locations on the bottom part of the cover.

#### Installing nCode/G and Concept/G keypads

- 1. Connecting the device to the system
- 2. Pull the connection wires through the wire entry [A].
- 3. Connect the cables to the connector on the keypad backplate [B]. If you are using the connector provided with the KB100 kit [C], connect the wires to the terminals, in accordance with the instructions described in paragraph 2-3-2 nCode/G and Concept/G Keypads, then insert the connector into the guide [D] until it locks into place.
- 4. Using at least 2 screws, mount the bracket to the wall.
- 5. Using the back-locking grips, attach the keypad to the bracket (as shown in figure [E].
- 6. Fasten the screw [F] (included) into the screw location [G], to secure the keypad properly to the bracket.





Installation and Programming Manual

3-2-2



3-2-3



#### Installing nBy/S Readers

The wall-mount nBy/S reader is suitable for indoor and outdoor installation. Insert the two anchor screws [A] (included) into the two screw locations [B] on the plastic backplate.



In order to avoid the risk of piercing the silicone seal [C], and thus jeopardizing the waterproofing of the enclosure, insert the screws before fitting the seal.

#### Installing nBy/S readers

The Universal flush-mount nBy/X (Patent Pending) has been especially designed to integrate with all brands of cover plates [A]. Drill two holes [B] for the light guide [C].

Use the adhesive drill-pattern (see opposite) to mark the drilling locations accurately.

- 1. Ensure that the centre of the cover plate coincides with the crossing of the axes x and y on the drill-pattern. In this way, the two drilling locations (1 x 7mm diameter and 1 x 8mm diameter) will be positioned precisely.
- 2. Using the screw [D], secure the reader components inside the cover plate.
- 3. Insert the cover plate (with the reader already assembled) into the light switch box.



3-2-5

ATTENTION!

3-2-4



#### **Dislodgement tamper**

The nBy/X reader is not equipped with built-in dislodgement-tamper protection. However, the following section describes how you can protect nBy/X reader against this kind of tamper.

In order to comply with Italian certification (Level 2 - IMQ Security Systems), all the system peripherals must be protected against tamper. Installation of a microswitch will allow the reader to signal tamper events. To obtain this type of protection, work carefully through the following steps.

- 1. Use a microswitch with at least two normally-open contacts [A]. The one shown in figure 3 has 3 contacts: COM-NO-NC.
- 2. Configure one of the terminals as follows: Input; 24H; Description = "Tamper reader x"; single balancing with  $6K8\Omega$  [resistance [B]; unlimited alarm cycles. Assign the duly programmed terminal to at least one keypad partition.
- 3. Using 2 wires, connect the microswitch to the 24H input terminal.
- 4. On the microswitch:
  - 4.1. using one of the two wires, connect the common contact (COM) to the GND terminal of the 24H terminal [C].
  - 4.2. Connect the normally-open contact (NO) to one end of the  $6k8\Omega$ resistance [D] (the normally-open contact generates a short-circuit between itself and the COM contact when the microswitch-lever is







compressed). Connect the other end of the resistance to the wire which is connected to the 24h input terminal.

5. Install the microswitch as shown in the previous figure, so that the switch lever is compressed. If an unauthorized attempt to dismantle the nBy/X reader occurs, the lever will expand in order to open the contact which triggers instant alarms on the 24H terminal.

This wiring method can be applied in most situations, however, it is only a point of reference. In order to ensure proper protection, you must always take in to account the specific mechanical and electrical conditions of the device you are working on.

Note

3-3

## Addressing the peripherals

In order to allow the control panel to identify the peripherals distinctly, you must assign a different address to each device. However, you can assign the same address to two devices which belong to different categories (e.g. a Flex5 expansion and a JOY keypad) as, in this case, the control panels will see them as two distinct devices.

SmartLiving 1050 and 1050L

SmartLiving10100L

37

38 39

40

	Expansion - Transceiver address	DIP-switch	a		Reader address	Red	Blue	Green	Yellow	nBy/S	nBy/X	Keypad address
	1	00000000			1	0	0	0	1	0000	$\mathbf{igodol}$	
	2	00000001			2	0	0	1	0	0000	$\oplus$	1 1
	3	00000010		5	3	0	0	1	1	0000		
	4	00000011		15	4	0	1	0	0	0000	$\bigcirc$	<sup>2</sup>
	5	00000100		and	5	0	1	0	1	000		-
I	6	00000101		30	6	0	1	1	0	$0 \bullet \bullet 0$	$\mathbf{\Theta}$	
	7	00000110		j Bu	7	0	1	1	1	$\bigcirc \bullet \bullet \bullet$		
	8	00000111		Ē	8	1	0	0	0	• 0 0 0	$\bullet$	4
	9	00001000		art	9	1	0	0	1	$\bullet \circ \circ \bullet$	$\mathbf{\Theta}$	E
	10	00001001		S-	10	1	0	1	0	$\bullet \circ \bullet \circ$		3
1	11	00001010			11	1	0	1	1	$\bullet \circ \bullet \bullet$		6
	12	00001011		Ы	12	1	1	0	0	$\bullet \bullet \circ \circ$	Ð	0
	13	00001100		05	13	1	1	0	1	$\bullet \bullet \circ \bullet$		_
	14	00001101		P	14	1	1	1	0	$\bullet \bullet \bullet \circ$		1
	15	00001110		0 ai	15	1	1	1	1	$\bullet \bullet \bullet \bullet$		
	16	00001111		105	16	0	0	0	L	0000		°
	17	00010000		lgn	17	0	0	L	0	0000	$\oplus$	
	18	00010001		Li V	18	0	0	L	L	0000		9
	19	00010010		art	19	0	L	0	0	0000	$\oplus$	10
	20	00010011		Sn	20	0	L	0	L	0000		10
1	21	00010100			21	0	L	L	0	$0 \otimes \otimes 0$	$\oplus$	11
	22	00010101			22	0	L	L	L	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$		11
	23	00010110			23	L	0	0	0	0000	$\oplus$	12
	24	00010111			24	L	0	0	L	0000		12
	25	00011000		5	25	L	0	L	0	0000		12
	26	00011001		010	26	L	0	L	L	$\odot \circ \odot \odot$	•	13
	27	00011010		191	27	L	L	0	0	0000		14
	28	00011011		İ	28	L	L	0	L	$\odot \odot \odot \odot$		14
	29	00011100		art	29	L	L	L	0	$\odot$ $\odot$ $\odot$ $\odot$	•	1.5
	30	00011101		Sm	30	L	L	L	L	$\odot$ $\odot$ $\odot$ $\odot$	•	15
	31	00011110						_			· · · · · ·	
	32	00011111		0	0	LED O	FF					
	33	00100000		1		LED O	N					
	34	00100001		L	0	LED b	inkin	g				
	35	00100010										
1	36	00100011										

You must not exceed the maximum number of addresses allowed for each type of peripheral. The following table shows the available peripheral addresses and the maximum number of addresses accepted.

00100100

00100101

00100110

00100111

The top left section of the Table shows the maximum number of addresses (5 for the SmartLiving505 model, 10 for the515 model, 20 for the 1050 model and 40 for the 10100 model) and the DIP-switch configuration of the Flex5 expansion board and Air2-BS100 transceiver (refer to paragraph *3-3-2 Addressing FLEX5 expansions and the Air2-BS100 transceiver*).

The second section shows the nBy/S and nBy/X reader addresses with the corresponding combination of the reader LEDs (refer to paragraph 3-3-3 Addressing nBy readers).

The section on the far right shows the addresses available for the keypads (refer to paragraph 3-3-1 Addressing the keypads).

For the Ivy sounderflasher and IB100 isolator addressing procedure, refer to the respective Installation Guides.

#### Addressing the keypads

Work carefully through the following steps.

- 1. Put the control panel in "Maintenance" mode by inserting the respective jumper (Table 4: Control panels - description of parts, Q).
- 2. Using the keypad you wish to address, press and release keys 1 and **3** def simultaneously; set the address then press **ok** (if the keypad firmware version is 1.02 or higher, go to point 5).
- 3. For JOY/MAX only: enable or disable the reader press keys **1**, or **2**<sub>abc</sub>.
- 4. For JOY/MAX only: if the reader is enabled, assign the address and press (ок).
- 5. If the keypad firmware version is 1.02 or higher, enable or disable the dislodgement tamper protection by pressing 1 ., or 2 abc.
- 6. If the keypad firmware version is 1.08 or higher, enable or disable the dislodgement tamper protection by pressing 1 , or 2 abc.

For security reasons, if the address is not assigned within 30 minutes of accessing "Maintenance" mode (SERV jumper inserted), the keypad will exit the programming phase automatically.

If this occurs and you wish to restart the programming phase, remove and re-insert the jumper.

The same procedure is necessary when you re-address the keypad.

#### Addressing FLEX5 expansions and the Air2-BS100 transceiver

Using a small screwdriver or similar tool, set the expansion board address on the 8-segment DIP-Switch strip (Table 17: Flex5 - Description of parts, C). Each segment can be set at "1" (On) or "0" (Off).

The figure shows some examples.



#### Addressing nBy readers

To assign addresses to the system readers, work carefully through the following steps.

- 1. Put the control panel in "Maintenance" mode by inserting the respective jumper (*Table 4: Control panels - description of parts, Q*).
- 2. Start the "Address Programming" phase using the software or from a keypad:

Type-in Code (Installer PIN) or, PROGRAMMING Readers or, Prog. address or.

- 3. Each reader indicates its own address on its LEDs (refer to the Table in paragraph 3-3 Addressing the peripherals).
- 4. Hold a valid key in the vicinity of the reader. The reader will run through a series of available reader-addresses (an address every 2 seconds). Remove the key when the LEDs indicate the desired address.

## 3-3-1



3-3-2

Note







- 5. The reader will hold the addressing phase for a further 10 seconds, in order to allow you to change the address if necessary.
- 6. The reader will assign the selected address when the 10 second period expires.
- 7. If you wish to assign an address to another reader, hold a valid key in the vicinity of the reader and work through points 4 to 6.
- 8. End the reader-address programming phase (exit "Prog. address" via keypad, or click on "Stop reader address setup", if you are using the Smart-League software).

#### Auto-enrolling peripherals 3-4

The peripherals connected to the BUS are enrolled automatically in the following situations:

- on first startup (refer to Chapter 4 First power up)
- if the SERV jumper is inserted (refer to paragraph 3-1-9 Maintenance status)
- via the Installer menu (refer to paragraph 6-23 Default settings) >

Type in Code (Installer) or, PROGRAMMING Default settings or, Auto Periph or.

#### Wiring and balancing alarm detectors

The wiring and respective balancing method depend on the type of detector you are installing, and the level of protection you wish to achieve. The detectors can be powered through:

- terminals [+AUX/12V] and [-/GND] on the control panel ٠
- terminals [+AUX/12V] and [-/GND] on FLEX5 expansions
- terminal [+/12V] and terminals [-/GND] on keypads
- from any 12V ancillary source on condition that its GND reference is in common with that of the control panel.

The resistors used for balancing are:

3K9Ω 1/4W

**SMARTLIVING** 

•• 6K8Ω 1/4W

The following Table indicates the protection level of each detector type and the balancing options provided by the control panel:

Table 20: Protection level

BALANCING	N.O.	N.C.	Single	Double	Double zone	Double zone with EOL
Infrared or Double technology	very low	low	medium (*)	high	medium	high
Magnetic contact	very low	low	medium		medium	high

For N.C. (normally closed) and N.O. balancing (normally open), it is possible to detect two distinct zone conditions:

- standby
- alarm

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ω	N.C.	N.O.
> 2 x 3900 + 6800	alarm	standby
> 2 x 3900 + 6800	alarm	standby
3900 + 6800	alarm	alarm
2 x 3900	alarm	alarm
3900	standby	alarm
0	standby	alarm

If you wish the detector to signal tamper events, connect the detector "Tamper" terminal to a "24h" zone on the control panel.





(\*) Single balancing provides the same level of protection as Double balancing, when the tamper contact of the detector

is connected to a





3-5

Single zones can discriminate 3 conditions on the entire terminal:

- standby
- alarm
- tamper (short-circuit)

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ω	Zone
> 6800	alarm
6800	standby
0	tamper

If you wish the detector to signal tamper events, connect the detector "Tamper" terminal to a "24h" zone on the control panel.



3-5-2

## Double balancing 3-5-3

Double balancing discriminates 4 distinct conditions on the zone terminal:

- standby
- alarm
- tamper (short-circuit)
- tamper (wire cutting)

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ω	Zone
> 6800	tamper (wire cutting)
6800	alarm
6800 / 2	standby
0	tamper (short-circuit)



#### Double-Zone Balancing 3-5-4

Double zones without EOL resistor can discriminate 5 conditions on the entire terminal:

- standby on both zones
- alarm on zone 1 and standby on zone 2
- alarm on zone 2 and standby on zone 1
- alarm on both zones
- tamper (wire cutting)

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ω	Zone 1	Zone 2 (double)
> 3900 + 6800	tam	iper
3900 + 6800	alarm	alarm
6800	standby	alarm
3900	alarm	standby
0	standby	standby



## SMARTLIVING

#### SMARTLIVING

## Double Zone Balancing with EOL 3-5-5

Double zones with EOL resistors can discriminate 6 conditions on the entire terminal:

- standby on both zones
- alarm on zone 1 and standby on zone 2
- alarm on zone 2 and standby on zone 1
- alarm on both zones
- tamper (wire cutting)
- tamper (short-circuit)

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ω	Zone 1	Zone 2 (double)		
> 2 x 3900 + 6800	tamper (w	ire cutting)		
> 2 x 3900 + 6800	alarm	alarm		
3900 + 6800	standby	alarm		
2 x 3900	alarm	standby		
3900	standby	standby		
0	tamper (short-circuit)			



#### Wiring and balancing 3-6 rollerblind/shock sensors

It is possible to choose between two types of balancing for Rollerblind and Shock sensors:

- Normally Closed (N.C.)
- Single balancing (NC with EOL)

The following table compares the protection level of rollerblind/shock sensors using the two balancing options provided by the control panel.

#### Table 21: Protection level

BALANCING	N.C.	Single balancing (N.C. with EOL)
Rollerblind or Shock	very low	high

If the rollerblind or shock sensor is connected to a terminal of a wireless device, the connection cable must be less than 2 meters long.

The rollerblind sensor must generate pulses with a length of between  $500 \mu \text{sec}$  and 10msec.

## Normally Closed (N.C.)

3-6-1

In this case, the alarm condition is revealed exclusively by the number of pulses (pulse count) the control panel detects on the terminal.

If this balancing method is applied, the control panel will be unable to detect tamper, wire-cutting or short-circuit.

The discriminated conditions are:

- standby
- alarm

The alarm condition is triggered by the number of pulses and sensitivity, in accordance with the programmed parameters (refer to paragraph 6-6 Zones - Detector type).

## inim\_

#### Single balancing (N.C. with EOL)

In this case, the discriminated conditions are:

- standby
- alarm
- tamper (wire cutting)
- tamper (short-circuit)

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ω	Zone
> 3900 / 2	tamper (wire cutting)
3900 / 2	standby
0	tamper (short-circuit)

The alarm condition is triggered by the number of pulses and sensitivity, in accordance with the programmed parameters (refer to paragraph 6-6 Zones - *Rollerblind/Shock*).

# Connecting wireless detectors

For the connection and deployment of wireless detectors (Air2-IR100 and Air2-MC100), refer to the Air2-BS100 Installation Guide.

For the connection and balancing of detectors connected to terminals "T1" and "T2" of the Air2-MC100 device, refer to paragraphs 3-5-1, 3-5-2, 3-5-3, 3-6-1 and 3-6-2.

It is necessary for the "GND" terminal of the Air2-MC100 device to be connected to GND (Negative) of the power source of the detector connected to terminals "T1" or "T2".

## Learn Zone Balancing

Once you have completed the wiring and configured the balancing of all the zones, you can instruct the control panel to save all the related parameters automatically, by activating the Learn zone bal. option (refer to paragraph 6-23 Default settings, Learn zone bal.).

## **Connecting the outputs**

It is possible to set up the outputs to activate in response to the events the control panel manages.

For the connection of the outputs to terminals "T1" and "T2" of the Air2-MC100 device, refer to the Air2-BS100 Installation Guide.

#### Connecting the sounders

In the event of intrusion alarm, the control panel activates the output/s which are connected to the audible/visual signaling devices. The relay output on the control panel motherboard is the alarm output which is most commonly used to drive a self-powered sounder.

The following wiring diagram shows the connection of a self-powered sounder (IVY manufactured by INIM) and an indoor sounder.



## 3-7







3-8

3-9-1



inim

#### Connecting open- 3-9-2 collector outputs

All the system outputs, except for the relay output on the control panel motherboard, are open-collector outputs. as follows:

**SMARTLIVING** 

- OC1 and OC2 are open-collector outputs that sink maximum currents in accordance with the *Table 3: Control panel Main Features*.
- All the terminals configurable as outputs are open-collector outputs that sink a maximum current of 150 mA.

The wiring diagram below illustrates a series of typical connections which activate the load of a Normally Open output when it closes to GND (---).



## Attachment boards **3-10**

## AUXREL32 3-10-1

The AUXREL32 power distribution board (accessory item) can be used with SmartLiving 1050L and 10100L models. It provides two relays and allows the system to take full advantage of the current supplied by the control-panel power-supply. It comprises 3 pairs of terminals protected by resettable fuses (GND/AUX1 – GND/AUX2 – GND/AUX3), each able to provide 12V@1A.

Each relay, has a voltage-free contact identified by terminals C1-NO1-NC1 and C2-NO2-NC2. The relays are activated by the control panel outputs OC1 and OC2.

	Table 22: AUXREL32 - Description of parts					
Α	Terminal board					
В	12V connector					
С	OC1/OC2 connector					
D	Relay LED 1					
Е	Relay LED 2					
F	12V present LED					
G	Screw locations					
н	OC1/OC2 connection wire					
Ι	12V power wire					



## inim

#### SMARTLIVING

The activation of each relay is signaled by the on-board LED ([D] for relay 1 and [E] for relay 2).

If you intend installing this board, work carefully through the following steps.

- 1. Disconnect all sources of power to the control panel (Mains 230V a.c and battery power).
- 2. Insert the plastic supports into their respective locations (*Table 4: Control panels description of parts, Z*) on the back of the metal enclosure.
- 3. Position the board holes [G] on the supports and push the board towards the back of the enclosure until it locks into position.
- 4. Insert the cable [H] into the connector [C].
- Connect the two free wires of the cable [H] to terminals 14 (OC1) and 15 (OC2) on the control panel motherboard. Ensure that OC1 and OC2 on the control panel are appropriately connected to the connector [C].
- 6. Connect the cable [I] to the connector [B] and to the 2 free pins [J] of the connector on the switching power-supply, as shown in the figure.



#### SmartLink/GWB

The metal enclosures of SmartLiving 1050L and 10100L control panels provide housing for SmartLink/GWB accessory boards and the respective 12V@1.2Ah backup batteries.

For the technical features and functions provided by these boards, refer to paragraph *3-1-6 Land-line connection (PSTN)*.

The SmartLink/GWB kit includes:

- SmartLink/G board
- GSM antenna with 3 meter cable
- Screws and star washers
- Plastic supports for box mounting
- 10 resistors @ 15KΩ 1/4W

The picture opposite shows the SmartLink mounted inside its enclosure. If you intend installing this board, work carefully through the following steps.

- 1. Disconnect all sources of power to the control panel (Mains 230V a.c and battery power).
- 2. Insert the plastic supports into their respective locations (*Table 4: Control panels description of parts, C1*) on the back of the metal enclosure.
- 3. Position the board holes [A] on the supports and push the board towards the back of the enclosure until it locks into position.
- 4. Secure the screw and star washer in place [B].
- 5. Connect terminal "1" ([C] "PWR+") to a "+AUX" terminal on the control panel motherboard, and terminal "2" ([C] "PWR-") to a "
- 6. Power up the control panel (reconnect Mains 230V a.c and battery power).





3-10-2

3-10-3

7. Locate the battery properly into its housing (Table 4: Control panels description of parts, E1) and connect the wires [D] (red-positive, blacknegative).

SMARTLIVING

Flex5/U

The metal enclosures of SmartLiving 1050L and 10100L control panels provide housing for two Flex5/U expansion boards (accessory items).

If you intend installing this type of board, work carefully through the following steps.

- 1. Disconnect all sources of power to the control panel (Mains 230V a.c and battery power).
- 2. Secure the plastic enclosure of the Flex5/U to the backplate of the control panel (Table 4: Control panels - description of parts, B1).
- 3. Connect it to BUS line as described in paragraph 3-2-1 The I-BUS line wirina.
- 4. Address it as described in paragraph 3-3-2 Addressing FLEX5 expansions and the Air2-BS100 transceiver.
- 5. Power up the control panel (reconnect Mains 230V a.c and battery power).



#### 3-10-4 SmartLAN

The SmartLAN board, available with SmartLAN/G and SmartLAN/SI versions, allows SmartLiving control panels to extend their connectivity to ethernet and internet networks.

The operating capacity of the SmartLAN board depends on the proper configuration of the networks it is connected to. Therefore, if you are installing a SmartLAN board, it is necessary to contact the network administrator in order to configure it correctly.

For a full description of the features and method of configuration of the SmartLAN board (IP address, gateway, e-mail, etc.), read carefully through the respective Guide.

The figure opposite shows the SmartLAN/SI board mounted inside the box. If you intend installing this board, work carefully through the following steps.

- 1. Disconnect all sources of power to the control panel (Mains 230V a.c and battery power).
- 2. Remove the earth connection screw [A] (Table 4: Control panels description of parts, A1) from its location and replace it with the metal support (included).
- 3. Align the screw location on the board with the support and serial connector on the backplate [B], with the connector on the SmartLiving board (Table 4: Control panels - description of parts, S).
- 4. Fasten the screw [A] on the support.
- 5. Insert the board power jumper between pins 1 and 2 of the connector (Table 4: Control panels - description of parts, O).For SmartLiving 515 model without this connector, use the cable jack and connect it to the connector [C], then connect the free red [D] and black [E] wires respectively to terminals "+" and "-" of the control panel BUS.
- 6. Power up the control panel (reconnect Mains 230V a.c and battery power).

It is important to note that the e-mail service does not guarantee delivery time of e-mails and their attachments nor even their final delivery.





# **Chapter 4**

## **FIRST POWER UP**

On first power up, the control panel initializes the parameters at default (factory settings).

The control panel also enrolls all the peripherals it finds on the I-BUS automatically (automatic addressing phase). The default address of all expansions, keypads and readers is address 1, therefore, if the system is equipped with more than one of each type of device, the automatic enrolling operation will be erroneous. In order to allow the system to perform an accurate auto-enrolling operation on "First power-up", work carefully through the following steps.

The default address of all peripherals (keypads, readers and expansions) is set at address 1.

#### \_\_\_\_\_

## When wiring the system, be careful not to allow any form of power (mains 230V or battery) to reach the control panel or its peripherals.

- 1. Attach the control panel to the wall.
- 2. Complete the wiring of the peripherals to the BUS.
- 3. Connect the BUS wires to the control panel.
- 4. Complete the wiring and balancing of the system detectors.
- 5. Connect the detectors to the terminals.
- 6. Connect the outputs to the control panel and peripheral terminals.
- 7. Connect the control panel to the telephone line.
- 8. Connect the SmartLogos30M board to the appropriate connector on the control panel motherboard.
- 9. Insert the Service jumper in the "SERV" position.
- 10. Connect the primary power source (230V a.c.).
- 11. Connect the backup battery. The first line of the display of each keypad in the system will show the 'Maintenance' message and the keypad address at default. On first power up (first startup), all the keypads will show "K01" (refer to paragraph *3-1-9 Maintenance status*).

If several keypads are connected to the I-BUS, their displays may be blank. If this occurs, disregard this aspect and go directly to the next step.

- 12. Address the peripherals (refer to paragraph *3-3 Addressing the peripher-als*). At least one keypad must be assigned to address 1. Using keypad 1, initialize the addressing phase for nBy/S and nBy/X readers (refer to paragraph *3-3-3 Addressing nBy readers*).
- 13. If you wish to instruct the system to learn the "balancing values" of all the zones, initialize the procedure via the installer menu (refer to paragraph 6-23 Default settings, Learn zone bal.).
- 14. Remove the jumper from the "SERV" position and place it in the "RUN" position.
- 15. If necessary, specify the expansion terminals simulated by the Air2-BS100 transceiver (refer to paragraph *6-5 Terminals*) as "Wireless" terminals.
- 16. If you decide to set up the voice and digital dialer functions and edit the contact numbers (refer to paragraph *6-8 Telephone*).

Note

Note

**ATTENTION!** 

# **Chapter 5**

## INSTALLATION PROJECT VIA SMARTLEAGUE SOFTWARE

The especially designed SmartLiving system can be programmed from a keypad or via PC. All programming functions can be accessed through the software application. You will need:

- A computer (to be connected to the control panel)
- The SmartLeague software application

# The SmartLeague software application

5-1

The SmartLeague software application allows the installer to prepare the majority of the programming parameters without actually being connected to the control panel.

The connection is required during the upload and download operations. The type of connections depends on the device used for upload/download operation to and from the control panel:

- RS232 serial port of the PC
- LAN (combined with the use of a SmartLAN/SI or SmartLAN/G board)
- Modem

The programming parameters of an installation constitute the "solution". The solution can be saved to the memory of the SmartLeague software application, either for future use or as a "model" for other installations.

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

application - homepage				
Α	The menu bar, application icons and programming accessories.			
В	List of recent solutions - which will allow you create new solutions or open existing solutions			
С	Documentation installed on the computer.			
D	Area dedicated to help and service via Internet. It is possible to consult FAQ page, make enquiries and suggestions via e-mail.			
E	Access to the area reserved for registered users of the INIM website.			
	After typing in a Username and Password, you can access the updated versions of the software applications, firmware, technical documentation and service.			

Table 23: SmartLeague software



5-2

## Using the software application

Each project, from the most uncomplicated to the most complex of systems, is represented by a solution, which contains the programming parameters and installation structure.

A solution is dedicated to a specific type of apparatus and has its own programming interface. You can work on several solutions simultaneously, even if the involve different types of apparatus. Each solution has a template, located next to the "Homepage", which can be viewed at all times. In this way it is possible to 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 application presents the following interface::

## Table 24: SmartLeague software application - solutions

	application solutions							
A	The freshly opened template remains in the forefront whilst the other open template and the Homepage remain in the background.	🜍 Start	ain profile	(A) Living 10-100 2.1x	C SmartLi	ving 10-50 2.0x ter se <b>D</b> s	]	
В	Installation tree structure.		pads (U)	i 🚍 🚍 🥪 🦷 Keynada	2			
С	Project Template where you can select the system peripherals (keypads, readers, expansions, sounderflashers) and drag and drop them to the tree structure.	—I/O —Sou ⊞—Sma	expansions (0) nder (0) artLiving system con	Keypad 001	Keypad 002	Keypad 003	Keypad 004	Keypad 005
D	Programming template of the component to be programmed (selected from the tree structure).		C	Proximity key-read	ers			
E	Keys for data transfer							
				Reader 001	Reader 002	Reader 003	Reader 004	Reader 005
				I/O expansions				

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.

In this case, you must:

- Enter the Installer PIN select "SmartLiving System" from the tree menu on the left and type in the code in the "Parameters settings Installer code" section on the right.
- Select the Type of connection either from the "Settings Application data" section, when using the serial port or a LAN connection, or by pressing the key, when using the SmartModem100.

For the full instructions regarding these connections, refer to the SmartLAN board or SmartModem100 Installation Manual.

## **Creating a Project layout**

The Project layout section, in the SmartLeague software application, allows you to select the number of peripheral devices you wish to install and thus plan and configure the system.

You can either create a new solution or change an existing one. The existing solution can be either a project layout created through the SmartLeague application or a solution imported directly from a real system.

1. If you wish to create a new system, go to the "Recent Solutions" section and select "New solution", then select the type of control panel and firmware version.

If you wish to modify an existing system, go to the "Recent solutions" section and select "Open solution".

or

import the data from a real control panel by clicking on the 🔜 key, which will upload the control panel data.

 Select the type of peripheral you wish to configure from the "Project" template, and drag and drop it to the part of the tree menu concerned. or

## 5-3



Double-click on the peripheral to add it to the configuration. To remove a component from the structure, select it and press CANC on the computer keyboard.

- 3. To download the data to the control panel, click-on the 🔜 key. Downloading will:
- Block all system keypads.
- Broadcast the "PROGRAMMING" message to all the keypads.
- Force all the system keypads to standby status.
- Bring the call queue and events log to a temporary standstill, thus there will be no events saved to the log, no outputs activated and no outgoing calls. When the download phase terminates, the control panel will restore the system to normal operations, as described in paragraph 6-2 Programming from a keypad (Accessing the installer menu).

During uploading and downloading phases, ensure that the control panel partitions are disarmed. This condition is not necessary when you are viewing the events log.

4. The SmartLeague software application also provides a key 🗱 which will allow you to create WinMag interface file (contact your dealer for further details).

PROGRAMMING FROM COMPUTER

Note
## OPTIONS AND PROGRAMMING METHODS

## Introduction

The options, functions and values of the SmartLiving control panel must be programmed by qualified persons only. The SmartLiving control panel is programmed at the factory with almost ready-to-go settings ("default settings") which require only minor changes during the system customization phase.

For example, all the zones, keypads and readers are assigned to (belong to) partition 1, alarm and tamper events related to partition 1 activate the relay output which is monostable set at 3 minutes (Monostable time = 3 minutes), etc.

The parameters and programming data can be input via keypad or computer (equipped with the SmartLeague software application) with the following exceptions.

- From the keypad you cannot program:
  - •• Timer slot exceptions
  - •• Input calibration
  - •• The second partition entry time
  - •• Sounderflasher tone
  - •• BUS speed
  - •• Description of the "Emergency key duos"
  - •• Parameters relating to the SmartLAN board
  - Via the SmartLeague software application you cannot program:
  - •• DTMF sensibility
  - •• The second Installer code
  - •• The Installer code PINs
  - •• The shortcut descriptions

The following chapter describes the programming flow of the system data as it appears in the Installer menu on the keypad. The description of both programming methods (from Keypad; Via PC) are provided.

## Programming from a keypad (Accessing the installer menu)

If you wish to program the system via the installer menu from a keypad, you must:

- 1. Disarm all the control panel partitions.
- 2. Type-in a valid PIN (installer code) on the keypad then press **ok**. The PIN is "9999" at default.

If you satisfy these conditions, the system will allow access to installer menu.

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

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

6-1

6-2

To exit the installer menu, press  $\mathbb{Esc}$  or  $\mathbb{Cell}$ , and when the system asks: "EXIT?" Press  $\mathbb{OK}$  (OK = YES).

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

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



Certain parameters (for example, relating to zones and outputs) can be programmed only after the project layout of the system has been completed (refer to paragraph *5-3 Creating a Project layout*).

- 1. Go to the "Recent solutions" section and either create a new solution or open an existing solution, or import the programming data of a real control needed by elicities are the section of the sectio
  - trol panel by clicking on the 🔜 key to upload the control panel data.
- Select the device you wish to configure from the tree menu on the left.
   Program the parameters in the "Parameters softings" tomplate on the second seco
- 3. Program the parameters in the "Parameters settings" template on the right.
- To download the data to the control panel, click-on the <a>[</a>

The limitations described in paragraph 5-3 Creating a Project layout apply during the uploading and downloading phases.

## Panel options 6-4

The following options are provided by the control panel.

Option	If enabled	If disabled
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.	The control panel will engage the telephone line, wait two seconds then will start dialing (whether the dial tone is present or not).
Pulse dialling	The control panel will dial using pulse tone.	The control panel will dial using touch tone (DTMF).
DTMF withoutCode	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 who operated on the control panel (code 30, 50 or 100).	Allows access to the User Menu over-the-phone during voice calls from the control panel, only after entry of a valid user-code PIN by the recipient.
Line down signal	If a "Tel.Line down" event occurs, the control panel will flash the respective icon $\blacksquare$ on the keypad displays.	The control panel will detect the "Tel.Line down" event, but it will not be revealed on the keypad displays.
Double call	The control panel will override the answerphone function.	
Call allVoxNums	If several event-generated voice calls are waiting in the outgoing Call Queue, the control panel will attempt to send voice calls to all the numbers.	If several event-generated voice calls are waiting in the outgoing Call Queue, the control panel will send voice calls until it receives feedback from one successful call, after which it will clear the call queue.
Call all TLVNums	The same as <b>Call all VoxNums</b> , but related to Alarm Receiving Centres.	
RefreshMnstblOut	Each event that triggers an already-activated monostable output will refresh (take back to zero) the programmed Monostable time.	Each event that triggers an already-activated monostable output will not refresh (take back to zero) the programmed Monostable time.
Num10 ForTeleserv	Telephone number 10 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 the number in position 10. <b>Note</b> If you wish the control panel to call an installer company number which uses an INIM modem, you must set "None" in the Telephone Number Type field.	Telephone number 10 in the phonebook can be dedicated to either voice or Teleservice.

Table 25: Panel options

EXIT? OK = YES



Note

38

## able 25: Panel ontio

Table 25: Panel options			
Option	If enabled	If disabled	
Install.callback	<ul> <li>The control panel will enable the Teleservice function if:</li> <li>the installer calls the control panel</li> <li>the control panel detects the ring, picks up, recognizes the installer code and hangs up immediately</li> <li>the control panel calls the Teleservice number and allows access to the system</li> </ul>		
ReaderBuzzer OFF	No reader buzzers will emit audible signals during running entry time, exit time, output time or pre-arm time.		
Keypads lockout	If a wrong code is typed-in at a keypad more than 5 times in succession, the keypad will lock for 10 minutes and show the icon:		
	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.		
OpenZonesArmLock	The control panel will not arm the partition if it detects any open zones (zones which are not in standby status). If there are zones with the "Autobypassable" or "No Unbypassable" attribute amongst the open-zones (refer to paragraph 6-6 Zones), they will be shown on the keypad as "Not ready". If the user goes ahead with the arming operation, these zones will be bypassed automatically and the partition will arm.		
DTMF sensitivity	The sensitivity of incoming DTMF tones is increased.		
BypassAlsoTamper	If a zone is bypassed (disabled), it will also be unable to generate terminal tamper.	If a zone is bypassed (disabled), it will be able to generate terminal tamper.	
BypassVoiceCheck	The control panel will start the voice message 5 seconds after dialing the respective contact number.	The control panel will not start the voice message until it recognizes a voice at the other end of the line.	
Confirm with *	The control panel will consider the voice call successful when the recipient presses $\square \ast$ or $\square \ast$ on the telephone keypad.	The control panel will consider the voice call successful as soon as it starts the voice message.	
NoUserTamp.reset	No user will be allowed to delete of the following events: • terminal tamper • control panel open-tamper • control panel dislodgement-tamper • peripheral tamper • peripheral loss • false key		
Encrypt data	The control panel will encrypt data via LAN (for SmartLAN/SI only).		
Instant restoral	The restoral of the magnetic reed sensor in Air2-MC100 wireless detectors will be signaled instantly.	The restoral of the magnetic reed sensor in Air2- MC100 wireless detectors will be signaled with a 10 second delay (maximum).	
Teleserv. hidden	The 👥 symbol will not be shown on the keypad display.	If Teleservice is enabled, the <b>symbol</b> will be shown on the keypad display.	
LockInstall.Code	After hard reset (refer to paragraph 6-23 Default settings), all the control panel parameters with the exception of the installer PIN will reset to the factory default settings.	After hard reset (refer to ), all the control panel parameters including the installer PIN will reset to the factory default settings (installer PIN default is 9999).	
50131ReaderLedOFF	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.	The reader LEDs indicate the related status.	
50131StatHidden	If partitions are armed, the LEDs will be as follows: Red Keypad LED On solid Yellow Keypad LED Off Green Keypad LED On Partition status hidden Status icons not present Alarm and Tamper memory hidden If partitions are armed, the real-time status of the system will be hidden from non-authorized users. If a valid code is entered at a keypad, it will show the real-time status of the system for 30 seconds. The keypad will show the real-time status of the system when all the keypad partitions are disarmed.	The keypad will show the real-time status of the system at all times, regardless of the status of its partitions.	

## **SMARTLIVING**

### Table 25: Panel options

Option	If enabled	If disabled
50131IconsHidden	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.	The keypad will show the real-time status of the icons at all times, regardless of the status of its partitions.
50131AlarDelayed	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.	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 be activated instantly.
50131WarnLedMem	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.	If the control panel detects a fault, the yellow LED on the keypads will go On and will go Off automatically when the fault clears.
DayLightSav.time	The control panel clock will go back automatically one hour at 03:00 last Sunday in October, and it will go forwards automatically one hour at 02:00 last Sunday in March.	No automatic clock forward/back operations.
NoStringsSiaProt	The descriptive strings will not be sent in SIA reporting format.	The descriptive strings will be sent in SIA reporting format.

### Via Keypad

1. Access the "Programming Panel options" section.

Type-in Code (Installer PIN) (or, PROGRAMMING Panel options (or).

- 2. Use keys and to select the option you wish to enable/disable.
- 3. Press  $\blacksquare_{*}$  to enable the selected option, or  $\square_{*}$  to disable it.
- 4. Press or to exit and save the configuration.

## Via PC

### Table 26: Options - via SmartLeague software application

Option	Part of the system	Template - section
Dial tone check		Parameters settings - Telephone line
Pulse dialling		parameters
DTMF withoutCode		Parameters settings - Telephone dialer parameters
Line down signal	Smartl iving System - Telephone	Parameters settings - Telephone line parameters
Double call		Parameters settings - Telephone line parameters
Call allVoxNums		Parameters settings - Telephone dialer parameters
Call all TLVNums		Parameters settings - Telephone dialer parameters
RefreshMnstblOut	SmartLiving System	Parameters settings - Control panel parameters
Num10 ForTeleserv	Smartl iving System - Telephone	Parameters settings - Teleservice
Install.callback	Sind cliving System relephone	parameters
ReaderBuzzer OFF	Proximity readers	Parameters settings - Reader parameters
Keypads lockout	Keypads	Parameters settings - Keypad
View open zones	Reypaus	parameters
OpenZonesArmLock	SmartLiving System	Parameters settings - Control panel
BypassAlsoTamper	ShartEiving System	parameters
BypassVoiceCheck	Smartl iving System - Telephone	Parameters settings - Telephone dialer
Confirm with *	Sharewing System Telephone	parameters
NoUserTamp.reset	SmartLiving System	Parameters settings - Control panel parameters
Encrypt data	/	Menu bar - Settings - Application settings - Serial ports - SmartLAN/SI



### Table 26: Options - via SmartLeague software application

Option	Part of the system	Template - section
Instant restoral		
Teleserv. hidden		Parameters settings - Control panel parameters
LockInstall.Code		parametero
50131ReaderLedOFF		
50131StatHidden	SmartLiving System	
50131IconsHidden		Parameters settings - 50131
50131AlarDelayed		Parameters
50131WarnLedMem		
DayLightSav.time		
NoStringsSiaProt	SmartLiving System - Telephone	Parameters settings - Telephone dialer parameters

This section describes the configuration flexibility of the system terminals. The profile of each terminal can be configured as follows.

- program the type of terminal:
  - •• Input (I)
  - •• Output (O)
  - •• Two way supervised output (T)
  - •• Double Zone (D)
  - •• Unused (-)
- program the parameters related to the selected configuration
- 1. Access the "Programming Terminals" section.

Type-in Code (Installer PIN) or, PROGRAMMING Terminals or.

The display will show the:

- line 1: the number of terminals
  - line 2: the type of terminals and the selected terminal
  - line 3: the description of the selected terminal
- *line 4:* the description of the second zone of the selected terminal if it configured as a DOUBLE ZONE.
- Use and to select the device whose terminals you wish to configure. The terminals are arranged as follows:
- terminals from 1 to 5 on the control panel
- terminals from 6 to 10 on the control panel (SmartLiving 1050 and 10100)
- terminals on expansion boards
- terminals on keypads
  - 3. Use  $\bigcirc$  and  $\bigtriangledown$  to scroll across the terminals. The selected terminal will blink. Configure the terminal by pressing:
- 1 ., to configure the terminal as an INPUT ("I")
- 2 abc to configure the terminal as an OUTPUT ("O")
- $3_{def}$  to configure the terminal as a TWO WAY SUPERVISED OUTPUT ("T")
- 4 ghi to configure the terminal as a DOUBLE ZONE ("D")
- **5** K to configure the terminal as UNUSED ("-")
- 6 mmo to enable/disable the terminal as "Wireless"
  - 4. Once you have configured the terminal, press  $\mathbf{OK}$ ,  $\mathbf{O}$ ,  $\mathbf{O}$ ,  $\mathbf{O}$ ,  $\mathbf{O}$  and  $\mathbf{OK}$  to

### program its type.

If an UNUSED terminal is configured as I, O, T or D and the keypad emits an error "beep", it means that you have exceeded the maximum number of terminals available on the control panel. If you wish to employ the terminal concerned, you must first configure another terminal as UNUSED.

If you are working on a Flex5 expansion terminal, press key  $6_{\rm mnc}$  to configure it, and consequently the entire expansion, as wireless. The "Wireless" string will be

6-5





41

## inim

Terminals

Via Keypad

6-6

shown on the bottom line of the display. If you press key 6 mo again, the operation will undo.

- To configure a terminal as a wireless output, proceed as follows:
  - 1. Position the cursor on the terminal concerned.
  - 2. Press 6 most to configure the terminal, and consequently the entire expansion, as wireless.
  - 3. Configure the terminal as an "input" (1...).
  - 4. Press or to access the zone parameters programming section.
  - 5. Go to the "Wireless" section.

SMARTLIVING

- 6. Enroll the terminal as "Input 1 C.M." or "Input 2 C.M."
- 7. Press the "ENROLL" button on the Air2-MC100 device.
- 8. Enable the "Broadcast RF" option as follows:

Type in Code (Installer) OK, PROGRAMMING Zones OK, select the zone, Options OK, Broadcast RF. OK

The "Broadcast RF" option must be enabled for each terminal of the Air2-MC100 device concerned.

- 9. Go back to step 1 and configure the terminal as an output (2 abc).
- 10. Press **ok** to access the output parameters programming section (description, options, etc.).

Press **ok** in correspondence with any terminal, provided that it is not an UNUSED terminal, to access the parameter programming section of the type of terminal selected, whether it is a zone or an output (refer to paragraph 6-6 Zones or paragraph 6-7 Outputs).

Select "SmartLiving System - Terminals" from the tree menu on the left, then go to the "Parameters settings" template on the right:

All the terminals will be shown on the respective page. You must configure the terminal graphically using the mouse, as follows:

- 1. Point to the terminal you require.
- 2. Right click on the mouse and select the required type.
- 3. Double click to set the options for the terminal.
- 4. Position the mouse on the programming field instead of on the specific terminal to program all the terminals in the same way.

If the terminal is configured as "Zone" (=INPUT) or "Double" (=DOUBLE ZONE), it will appear in the Zone programming section (paragraph 6-6 Zones). If the terminal is configured as an "Outputs" (=OUTPUT) or "I/O" (= TWO WAY), it will appear in the Outputs programming section (refer to paragraph 6-7 Zones).

This programming section deals with all the zone parameters.

### Via Keypad

Zones

1. Access the "Programming Zones" section.

Type-in Code (Installer PIN) or, PROGRAMMING Zones or.

2. Use keys and and to select the zone then press or .

### 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.

line 1: default description

line 2: current description

*line 3:* description being edited

line 4: letter/number selection

For example, the default description "Expansion 04 T03 corresponds to the zone located on terminal T3 of Expansion n. 4. The default descriptions "Panel T05"



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Via PC

inim



and "Panel T05D" correspond to the two zones located on terminal T5 of the control panel, configured as "Double Zone".

### Partitions

These are the partitions the zone belongs to. A zone configured as "Automation" cannot be assigned to any partition.

Use  $\blacksquare \ast$  and  $\square \ast$  to enable or disable the selected partition.

### Туре

Use *m* and *m* to select the type of zone, then press *m*. The available Types are (refer to *Appendix A, Technical terminology and Glossary*):

- Instant
- Delayed
- Delayed unhidden
- Route
- 24 hour
- Automation
- Armed in Away mode
- Disarm
- Switch
- OnArm/OffDisarm
- Patrol

For "Arm", "Disarm", "Switch", "OnArm/OffDisarm" "Follow" and "Patrol" zones, refer to Appendix A, Technical terminology and Glossary, Command Zones.

"Delayed" and "Delayed unhidden" zones are delayed during entry and exit phases, in accordance with the respective "Entry Time" and "Exit Time" settings (refer to paragraph 6-11 Partitions). A "Delayed unhidden" zone behave as follows:

- •• if violated when the system is disarmed, it will switch Off the blue LED on the keypad
- •• if the "View open zones" option is enabled, it will be shown on the keypad
- •• it will not generate "Partition not ready" events
- •• On arming from a keypad, the zone will appear as a violated zone but, when the arming operation is confirmed, will behave as a delayed zone and will not generate an alarm.
- •• if the "OpenZonesArmLock" option is enabled and the zone is violated, it will appear as a violated zone but, when the arming operation is confirmed, will behave as a delayed zone and will not generate an alarm.
- •• if the "OpenZonesArmLock" option is enabled, the zone is violated and instant arming is required, the zone will appear as a violated zone and when the partition arming operation is confirmed, the partitions the zone belongs to will not be armed.

### Options

The available options (refer to *Appendix A, Technical terminology and Glossary*) must be enabled/disabled by keys  $\blacksquare \ast$  and  $\square \ast$ :

- Interior
- Auto-bypassable
- Unbypassable
- Chime
- Test
- TampReed/FollPir
- Broadcast RF
- Use sensor LED

The last three options apply to "Wireless" zones only, a full description of which follows.



<b>O</b> utlou		
Option	It enabled	If disabled
TampReed/FollPir	<ul> <li>Air2-IR100 - in order to increase battery life, the infrared sensor will deactivate when the partitions it belongs to are disarmed and will only activate when the partitions it belongs to arm.</li> <li>Deactivated detectors do not generate alarms. There may be up to a 3 minute delay between the partition arming command and when the detector actually arms.</li> </ul>	<ul> <li>Air2-IR100 - the PIR detector will be active at all times.</li> <li>Air2-MC100 - magnetic-contact tamper will not be detected under any circumstances.</li> </ul>
	• <b>Air2-MC100</b> - detects magnetic-contact tamper when both reeds are in standby status.	
Broadcast RF	This option must be enabled when the zone and one of the terminals of the Air2-MC100 device ("T1" or "T2") is configured as an "output". Assures the activation/deactivation of the output within 2 seconds of the control panel command.	The activation/deactivation of the "wireless" output occurs within 2 minutes of the command from the control panel.
Use sensor LED	The red LED of Air2-IR100 and Air2-MC100 devices provides visual signaling of alarm and device tamper conditions.	
	Note	The red LED of Air2-IR100 and Air2-MC100 will be "Off" at all times.
	This option must be enabled on all the terminals of the Air2- MC100.	

- **No Unbypassable**. If this option is enabled, the zone will operate as an "Autobypassable" zone, with the difference that it will be re-arm automatically (unbypass) when the partition next disarms.
- **NoArmIfNotReady**. 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. This option, for 24H or automation zones, can be used together with the control panel option "NoArmOpenZones", for management of the "antimask" function of detectors which have this feature.
- **Delay time 2**. If this option is enabled, delayed zones 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.
- **UnbypassOnDisarm**. If this option is enabled, a zone which has been bypassed by a user, will be automatically unbypassed when the partition next rearms.

### Wireless

Please note that this section will be operative only when the zone you are working on is configured as a wireless zone (refer to paragraph 6-5 Terminals).

This section allows you to carry out all the operations relating to the programming of Air2 wireless series devices. The wireless-device programming section is arranged as follows.

• **Enroll sensor** - allows you to enroll a wireless detector which has not yet been enrolled on the terminal concerned.

Press **ox** to initialize the enrollment process. Select the type of detector you wish to enroll:

- •• PIR sensor allows you to enroll an Air2-IR100 detector
- •• Magnetic contact allows you to enroll Air2-MC100 magnetic reed contact
- Terminal T1 M.C. allows you to enroll the "T1" terminal of an Air2-MC100
- Terminal T2 M.C. allows you to enroll the "T2" terminal of an Air2-MC100

After selecting the desired type, press **or**. The first line of the keypad will show the "Programming" string.

To enroll the wireless device, press and release its on-board "ENROLL" button. As soon as the enrolling process is complete, the keypad will emit an audible signal (beep) to confirm the operation, and will show (in accordance with the type of device) the following:

- **Delete sensor** allows you to delete (unenroll) an enrolled wireless detector from the terminal concerned.
- **PIR sensor** allows you to change the parameters of an already enrolled Air2-IR100 detector. Press **ok** to program the detector sensitivity and enter a value of between 1 (low sensitivity) and 4 (high sensitivity).

### Note



1. Use keys and to select the field you wish to change, then use the number keys (1., etc.) to edit the number.

or

- Use and to increase or decrease the number.
- 2. Press or to confirm and exit.
- **Magnetic contact** allows you to change the parameters of an already enrolled Air2-MC100 magnetic contact. Press **ok**, to access the following options:
  - •• LongSide contact detection using the long side of the magnetic contact.
  - •• **ShortSideContact** detection using the short side of the magnetic contact.
  - •• **Both contacts** detection using both sides of the magnetic contact.

If you select the "Both contacts" option, standby status will be detected when either (or both) of the 2 reeds close. If you select either "LongSide contact" or "ShortSideContact", standby status will be detected when the selected reed closes and the other opens. If both reeds close, the system will generate a terminal-tamper event. In fact, the most common method of jamming this type of device is to hold a magnet in the vicinity of the magnetic contact, should this ever occur, both reed relays will close to trigger a tamper event.

- Terminal T1 M.C. and Terminal T2 M.C. to change the parameters of
  - terminal "T1" of an enrolled Air2-MC100. If you press **or** at this point, the keypad will step back to the Zones menu and you can set up the parameters of the terminal: Balancing, Rollerblind, Times, etc.

Terminals "T1" and/or "T2" of the Air2-MC100 device can be set up in the same way as wired terminals, with the exception that wireless terminals cannot be configured as "double zones".

#### Balancing

Balancing can be (refer to Appendix A, Technical terminology and Glossary and paragraph 3-5 Wiring and balancing alarm detectors):

- Norm. open (NO)
- Norm.closed (NC)
- Single balancing
- Double balancing
- Double Zone (without EOL)
- Double Zone EOL (with EOL)

#### Alarm cycles

This programmable parameter accepts values between 1 and 15. If you set the value at 15, the zone will operate as a "repetitive zone" (refer to Appendix A, Technical terminology and Glossary, Alarm cycles).

#### Detector type

It is possible to program a zone as:

- Generic zone
- Rollerblind
- Shock

The following Table shows the terminals which accept Generic, Rollerblind and Shock zones, and the respective zone-parameter fields for each type.

	Generic zone	Rollerblind	Shock
Control panel terminals	any	T1, T2	T1, T2
Expansion terminals	any	T1, T2, T3 or T4	T1, T2, T3 or T4
Keypad terminals	any	any	any
Extra Parameters	Al. pulse Duration Multipulse time Alarm pulses	Rollerblind time Rollerbl. pulses	Shock sensit. Shock time Shock pulses

#### Al. pulse Duration (generic zone)

This is the length of time (after detection of alarm conditions) the zone allows before generating an alarm. Expressed in multiples of 15 milliseconds or minutes (see "info" box).

#### Multipulse time (generic zone)

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 window can be expressed in seconds or minutes (see Note).

### Alarm pulse num. (generic zone)

This is the number of pulses (each lasting as long as the programmed "Al.pulse Duration") necessary to generate a zone alarm event. If this value is more than 1, you must also program the "Multipulse time" parameter.

### Rollerblind time (rollerblind zone)

This parameter applies only when the value of the "Rollerbl. pulses" (see below) is more than 1.

This is the time window during which the system must detect a number of pulses equal to or higher than the value programmed for "Rollerblind pulses" before generating a zone alarm. This window can be expressed in seconds or minutes (see Note).

### Rollerbl. pulses (rollerblind zone)

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".

### Shock sensib. (shock zone)

This is an empirical parameter which regulates the sensitivity of the sensor. Increasing this value decreases detection sensitivity.

#### Shock time (shock zone)

This parameter applies only when the "Shock pulses" value is more than 1.

This is the window during which a number of pulses must be detected the number of alarm pulses must equal or exceed the value programmed for "Shock pulses", before the system generates an alarm. This window can be expressed in seconds or minutes (see Note).

#### Shock pulses (shock zone)

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 zone alarm is generated by the "Shock sensib." parameter.

All the above-mentioned values can be programmed as follows:

- 1. Use and to select whether to indicate the time in multiples of 15 milliseconds, seconds or minutes (see "info" box).
- 2. Use keys and to select the field you wish to change, then use the number keys (1, , etc.) to edit the number.

or

- Use and to increase or decrease the number.
- 3. Press or to confirm and exit.

## Via PC

Programming zones via the SmartLeague application is accomplished by the selection and programming of the terminal configured as zone, described in paragraph 6-5 Terminals.

If this value is expressed in minutes, there is an error margin of 1 minute (for example, if you set 5 minutes, the period can vary between 4 and 5 minutes).

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6-7

Outputs

This programming section deals with all the output parameters.

SmartLiving control panels provide 3 outputs:

- Relay Output
- 0.C. Output 1
- O.C. Output 2

### Via Keypad

1. Access the "Outputs" section.

Type-in Code (Installer PIN) (or, PROGRAMMING Outputs (or).

2. Use and to select the output then press  $(\mathbf{o}\mathbf{k})$ .

### 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.

Follow the instructions in paragraph 6-6 Zones - Descriptions.

### **Output options**

Use  $\blacksquare \ast$  and  $\square \ast$  to enable or disable the selected option.

- Norm. closed: this will be the output status during standby.
- Monostable
- **Buzzer (beeper)**: generates a 1Khz signal when the output activates can be used to drive a buzzer.
- **Blinker**: generates an intermittent signal (0.5 sec ON and 0.5 sec OFF) when the output activates can be employed in direct control of a visual signaling device (e.g. flasher).
- **ON afterRestoral**: the output does not restore-to-standby (reset) when the trigger-event clears. This option is useful in situations that require a trigger event for output activation and a reset event for its deactivation.

This option applies to "Bistable" outputs only. If it is enabled for a bistable output with reset-event configuration, it will deactivate the output instead of activating it (refer to paragraph 6-9 *Events*).

This option is useful in situations that require the output to reveal event "memory" (event signaling which continues even after the event clears). In this case, the output is deactivated by a different event which restores it directly to standby (resets the output).

For example:

- •• O.C. Output 1 is configured as "ON afterRestoral"
- •• the activation of "Mains failure" event is programmed to trigger O.C. Output 1
- •• the restoral (reset) of "Valid code"event is programmed to trigger O.C. Output. 1

In the event of Mains failure, O.C. Output 1 will activate but will not restore to standby (reset) when the Mains failure condition clears. It will restore to standby (reset) only when "CODE 1" is entered a keypad and generates a "Valid code" for the "CODE 1" event.

### Monostable time

This parameter applies to "Monostable" outputs only. This interval can be expressed in seconds or minutes (see "info" box).

When a "Monostable" output receives an activation signal, it will remain active (On) for the programmed time, regardless of the status of the trigger-event. In some cases, "Monostable" outputs can be forced to standby before the programmed monostable time runs out.

Use keys  $\bigcirc$  and  $\bigcirc$  and the number keys to set the times.

Programming zones via the SmartLeague application is accomplished by the selection and programming of the terminal configured as output, described in paragraph 6-5 Terminals.



If this value is expressed in minutes, there is an error margin of 1 minute (for example, if you set 5 minutes, the period can vary between 4 and 5 minutes).

Via PC



6-8

## Telephone

This programming section deals with all the telephone parameters.

### Via Keypad

Type-in Code (Installer PIN) or, PROGRAMMING Tel ephone or.

### Select number

Use keys for and to access the Phonebook which provides 10 number positions with the following programming fields.

- **Number**: edit field for the contact number (maximum 20 digits). Accepts also "," (= 2 second pause), "\*" and "#".
- **Description**: edit field for the name of the contact person. Follow the instructions in paragraph 6-6 Zones.
- Type: programming field for the telephone typology.
  - •• None: for unused telephone number
  - •• Voice call: assigns the contact number to the voice dialer

If the number refers to the Alarm Receiving Centre, assigns the **ARC** protocol (reporting format):

- •• Ademco 10bps
- •• Ademco 14bps
- •• Franklin 20bps
- •• Radionics 40bps
- •• Scantronic 10bps
- •• CONTACT-ID
- •• **SIA** Level 1 SIA is applied This reporting format (protocol) is capable of sending descriptions of the objects in ASCII characters. if you do not wish to send the descriptions in ASCII characters, select "No SIA strings" (refer to paragraph 6-4 Panel options). You can set a 4, 5 or 6 digit customer code for this protocol.

Use and to select the Type of number, then press  $(\mathbf{ok})$ .

- Account code: a 4-character alphanumeric code which identifies the caller in reports to the Alarm Receiving Centre. Some protocols (reporting formats) accept digits only, whilst others accept also "A", "B", "C", "D", "E" and "F", available using keys 2 abc 3 def.
- Partitions: you can associate each telephone number with specific partitions. By selecting the partitions, using Keys ■ \* and ■ \*, you enable/disable the users (who have at least one of these partitions in common with the telephone number) to modify the number concerned.

#### Number of rings

This value determines the number of rings the system allows before picking up an incoming call.

#### Max.num.attempts

This value determines the number of calls attempts the system will make before deleting the contact number from the call queue.

#### Message repeats

This value determines the number of times the voice message will be played during the call.

All the above-mentioned values can be programmed as follows:

1. Use keys and b to select the field you wish to change, then use the number keys (1, , etc.) to edit the number.

or

Use and to increase or decrease the number.

2. Press or to confirm and exit.



### Via PC Table 27: Telephone - via SmartLeague software application

	solution application	
Option	Part of the system	Template/section
Select number		Programming
Number of rings	SmartLiving System - Telephone	Parameters settings - Telephone line parameters
Max.num.attempts		Parameters settings - Telephone
Message repeats		dialer parameters

## **Events**

6-9

This programming section deals with all the event-generated output-actions (activations/deactivation) and voice/digital calls.

Event notification via e-mail requires the use of a SmartLAN/G board (refer to paragraph 3-10-4 SmartLAN).

The following table shows the events the control panel recognizes, the number of events for each type, the trigger and restoral method of each event and the event category (Pulse).

Table 28: Event type				
	Occurs when	Restores when	Number of events	Pulse events (Spot Events)
Zone alarm	A zone generates an alarm	A zone restores	One event for each zone	no
Terminal tamper	A terminal detects tamper (short- circuit or wire cutting)	A terminal restores	One event for each terminal	no
Partition alarm	A 24h zone which belongs to the partition generates an alarm, or a zone which belongs to the partition generates an alarm during Away mode.	All the zones belonging to the partition restore (reset).	One event for each partition	no
StayPartit.alarm	A zone which belongs to a partition armed in Stay or Instant mode, generates an alarm.	All the zones belonging to the partition restore (reset).	One event for each partition	no
Partition tamper	A zone which belongs to the partition detects tamper (short-circuit or wire cutting).	All the zones belonging to the partition restore (reset).	One event for each partition	no
Zone bypass	A zone is disabled (switched Off)	A zone is enabled (switched On)	One event for each zone	no
Real-time zone	The electrical status of a zone switches from standby to alarm	The electrical status of a zone switches from alarm to standby	One event for each zone	no
	The event is independent of the zone ty of the par	pe and the armed/disarmed status titions.		
Partit.not ready	A zone which belongs to the partition is not in standby status.	All the zones belonging to the partition are in standby status.	One event for each partition	no
Away arm request	A request is made to arm the interior and perimeter zones of the partition	A request is made to disarm the partition	One event for each partition	Yes
Overtime request	A request is made to arm the partition in Stay mode (perimeter zones only) or in Instant mode	A request is made to disarm the partition	One event for each partition	Yes
Partit.AwayArmed	The partition interior and perimeter zones have been armed effectively	The partition has been disarmed effectively	One event for each partition	no
Partit.StayArmed armed	The partition has been armed effectively in Stay or Instant mode	The partition has been disarmed effectively	One event for each partition	no
Partition reset	A request is made to reset the partition		One event for each partition	Yes
Exit time	The partition exit time is running	The partition exit time expires	One event for each partition	no
Entry time	The partition entry time is running	The partition entry time expires	One event for each partition	no
Pre-arm time	The partition Pre-arm time is running	The partition Pre-arm time expires	One event for each partition	no
Overtime request	A request for overtime relating to the partition is made		One event for each partition	Yes
Chime	A chime zone belonging to the partition is violated		One event for each partition	Yes
Forced arming	At the time of an arming command, relating to one or more partitions, there are open zones on the partition/ partitions involved, or there are other conditions present which lower system security, nonetheless, the user arms the system.		One event for each partition	Yes
Valid code	A user-code PIN entered at a keypad is recognized as valid		One event for each code	Yes
Valid key	A key used at a reader is recognized as valid on the reader		One event for each key	Yes



## SMARTLIVING



Valid Code AttKeypAuscreption bin entropy of a recognized in swappedRestores whenNumber of event, for each keypedVestValid Code AttKeypA key valid on the readerOne event for each readerVestPartition codeA user code in swapped at a reader is recognized as valid on the readerOne event for each partitionVestPartition codeA user code in swapped at a reader is recognizedOne event for each partitionVestPartition codeA call is not answeredOne event for each partitionVestThere activatedThe timer is eabled (AD)The timer is disabled (AD)One event for each contractNoThere activatedThe timer is eabled (AD)The timer is disabled (AD)One event for each contractNoScenarioActivatedThe statu of all bip anthonsThe statu of all bip anthonsOne event for each contractNoScenarioActivatedOne of the entropy contract on statu of all bip anthonsThe control-panel endosure coverNoNoScenarioActivatedThe control-panel endosure cover is contractThe control-panel endosure coverNoNoNoScenarioActivatedThe control-panel endosure cover is contractThe control-panel endosure coverNoNoNoScenarioActivatedThe control-panel endosure cover is contractThe control-panel endosure coverNoNoNoScenarioActivateThe control-panel endosure cover is contractThe control-panel endosure coverNoNoNoScenarioActivateThe control-panel endosure cover is co					
Valid Code Atkeyp.         User-code PN entred at a keyped is recognized as valid on the keyped is recognized as valid on the partition         One event for each neator         Yes           Partition code is recognized as valid on the partition as valid on the partition as valid on the partition         One event for each partition         Yes           Partition code is valid on the partition as valid on the partition as valid on the partition         One event for each contract is typicon number is recognized as valid on the partition         One event for each contract is typicon number is replaced as valid on the partition         Yes           Times activated is recognized is replaced as valid on the partition is replaced in continue continue real times activated is replaced in the valid time partition is replaced in the valid time partition is replaced in control partition is an interval is replaced in control partition is an interval is replaced in the control-partition is an interval is replaced in the control partition is an interval is replaced in the control parthe is an is replaced in the control partition is an i		Occurs when	Restores when	Number of events	Pulse events (Spot Events)
Valid/eq.AtReader         A key used at a reader is recognized         One event for each neader         Yes           Partition code         A user-code PIN entered at a keyped is recognized at reader in partition         One event for each partition         Yes           Partition key         A key as valid on the reader and is not answerd         One event for each partition         Yes           Failed call         A call is not answerd         One event for each contact blephone number         Yes           ScenarioActivated         The activated contactions set for the descrivation conditions set for the descrivation conditions set for the descrivation conditions set for the scenario-activated         One event for each keyped         no           ScenarioActivated         The schust of all heact or of the pressed         One event for each keyped         no           Dislogged panel         The control-panel endosure cover is pressed         The control-panel endosure cover         1         no           Dislogged panel         The zone protection fuse on the control panel is not gorne source to the pressed presserve to the presserve to the pressed pressed presserve to the presserve	Valid Code AtKeyp.	A user-code PIN entered at a keypad is recognized as valid on the keypad		One event for each keypad	Yes
Partition code         A user-code PIM entered at a keyrad and explored as valid on the partition and a standard as valid on the partition and an analysis of the partition and an analysis of the partition and an analysis of the partition and the partition and an analysis of the partition and the partition and the partition and the partition and the partition and the partition and the partition and the partis the partition and the partition and the partition and	ValidKeyAtReader	A key used at a reader is recognized as valid on the reader		One event for each reader	Yes
Partition key         A key used at a require is recognized         One event for each partition         Yes           Failed call         A call is no answered         One event for each contract the keybad thermostat occur.         Yes           Therr activated         The timer is enabled (0)         The deactivation conditions set for the keybad thermostat occur.         One event for each contract the keybad thermostat occur.         Yes           ScenarioActivated         The state of at its particular of all loss of the keybad thermostat occur.         One event for each scenario         no           Breegency key         One of the emergency-key duos is persase         One event for each scenario         no           Disidged panel         The control-panel enclosure cover opened         The control panel enclosure cover is replaced         1         no           IBUS fuse fault         The lots protection fuse on the control panel enclosure cover opened         The lots protection fuse on the control panel enclosure cover         1         no           IBUS fuse fault         The lots protection fuse state of absert (lockcout)         The lots protection fuse on the control panel enclosure cover         1         no           Keypad tamper         A expads signals tamper conditions         The lots protection fuse on the system expansion loss?         1         no           Siren tamper         A sounder(flashe communicate with the loss         The l	Partition code	A user-code PIN entered at a keypad is recognized as valid on the partition		One event for each partition	Yes
Failed call         A call is not answered         One event for each contact thephone number         Yes           Timer activated         The timer is anabled (0n)         The timer is disabled (0f)         One event for each keypad         no           ScenarioActivated         The study of the timer is anabled (0n)         The doculvation conditions store the keypad thermostat occur.         One event for each keypad         no           ScenarioActivated         The study of all hepsthings corresponds science of the participad panel enclosure cover is replaced         One event for each scenario         no           Panel opend         The control-panel enclosure cover is replaced         The control-panel enclosure cover is replaced         0         no           JBUS fuse fault         The law protection fuse is not operational (low protection fuse is not perational (low per source is a test of all lease on all the control panel enclosure cover is replaced         1         no           JBUS fuse fault         The law protection fuse is not operational (low per source is a test of all lease on all the system expansion board sing sharper conditions         The law protection fuse is not operational (low per source is a description at more source restores         1         no           Keypad tamper         A reader signals tamper conditions         The law per source is a description board sing sharper conditions         The law per conditions face on all the system responsion board on the system responsen         1         no <th>Partition key</th> <th>A key used at a reader is recognized as valid on the partition</th> <th></th> <th>One event for each partition</th> <th>Yes</th>	Partition key	A key used at a reader is recognized as valid on the partition		One event for each partition	Yes
Timer activated         The timer is enabled (07)         The timer is disabled (07)         One event for each timer         no           ScenarioActivated         The status of all the partitions contromage the the keypad thermostat occur.         One event for each keypad         no           ScenarioActivated         The status of all the partitions contromage the partitions does not correspond to scenario.         One event for each term ach partitions contromage the partitions does not correspond to scenario.         One event for each term ach partitions contromage the partitions does not correspond to the present control-part end control-par	Failed call	A call is not answered		One event for each contact telephone number	Yes
Thermostat ON         The activation conditions set for the program of the status of all the partitions composition of the preset scenario.         The detactivation conditions set for the heregated termostate occur.         One event for each keypad         no           ScenarioActivated         The status of all the partitions or proposition description for the preset scenario.         The status of all least one of the partitions description for the preset scenario.         The status of all least one of the partitions description for the partitions description for the partitions description for the partition description for the control partition description for the control partition for the partition description for the control partition for the partition description for the control partition for the status of the partition for the partition description for the control partition for the partition description for the control partition for the status of the control partition description for the control partition description for the control partition for the partition description for the control partition description for the control partition description for the control partition description for the partition description description for the control partition description description for the control partition description description for the control partition description de	Timer activated	The timer is enabled (On)	The timer is disabled (Off)	One event for each timer	no
ScenarioActivated         The status of all the partitions coresponds exactly to the pre-set scenario.         The status of all test on of the partitions data nation correspond to the pre-set scenario.         One event for each scenario the event for each scenario the pre-set scenario.           Emergency key         One of the emergency-key duos is pressed         The control-panel endosure cover is replaced         One event for each emergency-key duo         Ves           Panel opened         The control-panel endosure cover is replaced         1         no           IBUS fuse fault         The control-panel endosure cover operational (bown)         The control-panel endosure cover is replaced         1         no           IBUS fuse fault         The isote protection fuse on the control panel restores         1         no         1           IBUS fuse fault         The protection fuse is not control panel restores         1         no         1           IBUS fuse fault         The primery 230V ac. power source is operational (bown)         The primery 230V ac. power source restores         1         no           Expansion tamper         A scunder/faster connected to the BUS signals tamper         The square restores         1         no           Reader tamper         A scunder/faster connected to the BUS signals tamper         The last or emprotection bards         1         no           Siren tampers         A scunder/faster communicate with	Thermostat ON	The activation conditions set for the keypad thermostat occur.	The deactivation conditions set for the keypad thermostat occur.	One event for each keypad	no
Emergency key         One of the emergency-lexy due is pressed         One control-panel enclosure cover is replaced         One control panel enclosure cover is replaced         Yes           Dislodged panel         The control-panel enclosure cover is replaced         1         no           Zone fuse fault         The zone protection fuse on the control panel is not operational (blown)         The zone protection fuse is not operational (blown)         The zone protection fuse restores         1         no           IBUS fuse fault         The isote protection fuse is not operational (blown)         The isote protection fuse restores         1         no           IBUS fuse fault         The isote protection fuse is not operational (blown)         The backup battery is how pressed         The isote protection fuse restores         1         no           Keypad tamper         A reader signals tamper conditions         Tamper conditions (cler on all the system respansion board signals tamper conditions (cler on all the system respansion board signals tamper conditions         1         no           Siren tamper         A reader signals tamper conditions         Tamper conditions (cler on all the communication with all the system respansion board system respansion board signals tamper conditions (cler on all the system respansion board fails to communicate with the i-BUS         1         no           Keypad loss         A keypad fails to communicate with the i-BUS         1         no         1         no	ScenarioActivated	The status of all the partitions corresponds exactly to the pre-set scenario.	The status of all least one of the partitions does not correspond to the pre-set scenario.	One event for each scenario	no
Panel opened         The control-panel enclosure cover is repeated         1         no           Disidoged panel         Intervention opened         1         no           Zone fuse fault         The zone protection fuse on the control panel is not operational (blown)         The zone protection fuse is not operational (blown)         1         no           IBUS fuse fault         The 1-BUS protection fuse is not operational (blown)         The 1-BUS protection fuse is not operational (blown)         The 1-BUS protection fuse is not control panel restores         1         no           Low battery         The backup battery is low         The tackup battery is charged         1         no           Keypad tamper         An expansion basing signals tamper conditions         The primary 230V a.c. power         1         no           Reader tamper         A sequer signals tamper conditions         Tamper conditions clear on all the signals tamper conditions         1         no           Siren tamper         A sounder/fasher connected to the BUS restores communication with all the system readers         1         no           Reader loss         A nexpansion basing tamper conditions         The 1-BUS restores communication with all the system expansion basing         1         no           Siren tamper         A sounder/fasher conditions         The 1-BUS restores communication with all the system expansion basing         1	Emergency key	One of the emergency-key duos is pressed		One event for each emergency-key duo	Yes
Dislodged panel         no           Zone fuse fault         The zone protection fuse on the control panel is not operational (blown)         The zone protection fuse on the control panel restores         1         no           IBUS fuse fault         The 1-BUS protection fuse is not operational (blown)         The 1-BUS protection fuse is not control panel restores         1         no           Low battery         The backup battery is low         The backup battery is charged         1         no           Mains failure         The printy 2010 a.c. power source is absent (blackout)         The printy 2010 a.c. power         1         no           Expansion tamper         An expansion baging stamper conditions         Tamper conditions clear on all the super state sta	Panel opened	The control-panel enclosure cover is opened	The control-panel enclosure cover is replaced	1	no
Zone Tuse fault         The zone protection fuse on the control panel is not operational (blown)         The zone protection fuse is on the control panel restores         1         no           IBUS fuse fault         The 1-BUS protection fuse is not operational (blown)         The 1-BUS protection fuse restores         1         no           Low battery         The backup battery is low         The backup battery is low         The backup battery is low         no           Expansion tamper         An expansion bard signals tamper conditions         Tamper conditions (dear on all the system lexpans)         1         no           Keypad tamper         A reader signals tamper conditions         Tamper conditions (dear on all the system lexpans)         1         no           Siren tamper         A sounder/fisher connected to the asset (backup)         Tamper conditions (dear on all the system lexpans)         1         no           Keypad loss         A keypad fails to communicate with the 1-BUS         Tamper conditions (dear on all the system lexpans)         1         no           Reader loss         A reader fails to communicate with the 1-BUS         The BUS restores         1         no           Witelds the operational disco communicate with the 1-BUS         The BUS restores communication with all the sounderfishers         1         no           Sounderfisher fails to communicate with the BUS         The BUS restores communication w	Dislodged panel			1	no
IBUS fuse fault         The I-BUS protection fuse is not operational (blown)         The I-BUS protection fuse restores         1         no           Low battery         The backup battery is low         The backup battery is low         The backup battery is charged         1         no           Mains failure         The primary 230V a.c. gover source is abset (blackout)         The primary 230V a.c. gover source is abset (blackout)         The primary 230V a.c. gover source is abset (blackout)         The primary 230V a.c. gover source is abset (blackout)         no           Expansion tamper         An expansion board signals tamper conditions         Tamper conditions clear on all the system readens's         1         no           Reader tamper         A reader signals tamper conditions         Tamper conditions clear on all the system readens's         1         no           Siren tamper         A sounder/flasher connected to the BUS signals tamper conditions with all the system readens's         1         no           Expansion loss         An expansion board fails to communicate with the I-BUS         The I-BUS restores communication with all the system readens's         1         no           Sounderflasher loss         A sounderflasher fails to communicate with the I-BUS extores communication with all the system readens's         1         no           Jamming         Wireless interference detected         Mireless interference cleared         1         n	Zone fuse fault	The zone protection fuse on the control panel is not operational (blown)	The zone protection fuse on the control panel restores	1	no
Low battery         The backup battery is low         The backup battery is low         The backup battery is low         Inc         no           Mains failure         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent spatial primary 230V a.c. power source is absent spatial primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source is absent spatial primary 230V a.c. power source is absent spatial primary 230V a.c. power source is absent spatial primary 230V a.c. power source is absent primary 230V a.c. power source is absent preadel primary 230V a.c. power source is absent primary	IBUS fuse fault	The I-BUS protection fuse is not operational (blown)	The I-BUS protection fuse restores	1	no
Mains failure         The primary 230V a.c. power source is absent (blackout)         The primary 230V a.c. power source restores         1         no           Expansion tamper         An expansion board signals tamper conditions         Tamper conditions dear on all the system expansion boards         1         no           Reader tamper         A keypad signals tamper conditions         Tamper conditions dear on all the system expansion boards         1         no           Siren tamper         A sounder/flasher connected to the BUS signals tamper conditions dear on all the system readers         1         no           Expansion loss         An expansion board fails to communicate with the I-BUS communication with all the system readers         1         no           Reader loss         A keypad fails to communicate with the I-BUS communication with all the system keypads         1         no           Reader loss         A keypad fails to communicate with the I-BUS communication with all the system keypads         1         no           Sounderflasher loss         A sounderflasher fails to communicate with the I-BUS concers communication with all the system keypads         1         no           Jamming         Wireless interference detected         Wireless interference detected         1         no           Wireless interference detected         Wireless detectors are present out         1         no         1           <	Low battery	The backup battery is low	The backup battery is charged	1	no
Expansion tamper       An expansion board signals tamper conditions       Tamper conditions clear on all the system expansion boards       1       no         Keypad tamper       A keypad signals tamper conditions       Tamper conditions clear on all the system keypads       1       no         Reader tamper       A reader signals tamper conditions       Tamper conditions clear on all the system readers       1       no         Siren tamper       A sounder/flasher connected to the BUS signals tamper       Tamper conditions clear on all the system readers       1       no         Expansion loss       An expansion board fails to communicate with the 1-BUS       The FUE restores       1       no         Keypad loss       A keypad fails to communicate with the 1-BUS       The FUE restores       1       no         Reader loss       A reader fails to communicate with the 1-BUS       The FUE restores communicate with all the system communications with all the system readers       1       no         Jamming       Wireless interference detected       Wireless interference detected       1       no         WLS zone loss       Loss of at least one wireless       All the wireless detector are trunning on low batteries       1       no         WLS zone loss       Loss of at least one wireless       All the wireless detector are present       1       Yes         False key       A	Mains failure	The primary 230V a.c. power source is absent (blackout)	The primary 230V a.c. power source restores	1	no
Keypad tamper         A keypad signals tamper conditions         Tamper conditions (lear on all the system keypads         1         no           Reader tamper         A reader signals tamper conditions         Tamper conditions (lear on all the system readers         1         no           Siren tamper         A sounder/flasher connected to the BUS signals tamper         All the sounderflashers connected         1         no           Expansion loss         An expansion board fails to communicate with the I-BUS expansion board         1         no           Keypad loss         A keypad fails to communicate with the I-BUS expansion boards         1         no           Reader loss         A reader fails to communicate with the I-BUS restores communication with all the system keypads         1         no           Sounderflasher loss         A sounderflasher fails to communicate with the I-BUS restores communication with all the System readers         1         no           Jamming         Wireless interference detected         Wireless interference cleared         1         no           Uso fail teast one wireless detector is running low         The BUS restores communication are present         1         no           WLS zone loss         Loss of at least a valid         All the wireless detector are present         1         no           Installer code         An Installer PIN entered at a keypad is necessinated (	Expansion tamper	An expansion board signals tamper conditions	Tamper conditions clear on all the system expansion boards	1	no
Reader tamper       A reader signals tamper conditions       Tamper conditions clear on all the system readers       1       no         Siren tamper       A sounder/flasher connected to the BUS signals tamper       All the sounderflashers connected to the BUS restores communication with all the System readers       1       no         Expansion loss       An expansion board fails to communicate with the 1-BUS restores communication with all the system (expansion boards)       1       no         Reader loss       A keypad fails to communicate with the 1-BUS restores communications with all the system keypads       1       no         Reader loss       A reader fails to communicate with the 1-BUS restores communications with all the system readers       1       no         Sounderflasher loss       A seuderflasher fails to communicate with the BUS restores communications with all the system readers       1       no         Jamming       Wireless interference detected       Wireless interference cleared       1       no         Jamming       Wireless interference detected       Wireless detectors are running no what all the specific signaled (supervisory time-out) no what all the specific are specific signaled (supervisory time-out) no what all the specific are specific at a keypad signaled (supervisory time-out) no the abeen signaled (supervisory time-out) no the areters and the specific areader <td< td=""><th>Keypad tamper</th><td>A keypad signals tamper conditions</td><td>Tamper conditions clear on all the system keypads</td><td>1</td><td>no</td></td<>	Keypad tamper	A keypad signals tamper conditions	Tamper conditions clear on all the system keypads	1	no
Siren tamperA sounder/flasher connected to the BUS signals tamperAll the sounderflasher connected to the BUS reset1noExpansion lossAn expansion board fails to communicate with the I-BUSThe I-BUS restores communication with all the system expansion boards1noKeypad lossA keypad fails to communicate with the I-BUSThe BUS restores communication with all the system keypads1noReader lossA reader fails to communicate with the I-BUSThe I-BUS restores communication with all the system readers1noSounderflasher lossA sounderflasher fails to communicate with the BUSThe I-BUS restores communication with all the sounderflashers1noJammingWireless interference detectedWireless interference cleared1noJammingWireless interference detectedWireless detectors are running on low batteries1noWLS zone loss has been signaled (supervisory time- out)All the wireless detector are present1YesInstaller codeAn invalid code is entered at a keypad1YesHaid levelAn invalid key is used at a reader1YesHaid resetThe enterod at a keypad1YesGail queue full OrganmingAccess to system root working properly.1YesCall queue full Outgoing callAccess to system programming is authorizedEnd of system programming authorized1YesCall queue full Outgoing callA call is save dA call ends1	Reader tamper	A reader signals tamper conditions	Tamper conditions clear on all the system readers	1	no
Expansion lossAn expansion board fails to communicate with the 1-BUSThe 1-BUS restores communication with all the system expansion boards1noKeypad lossA keypad fails to communicate with the 1-BUSThe BUS restores communication with all the system keypads1noReader lossA reader fails to communicate with 1-BUSThe I-BUS restores communication with all the system readers1noSounderflasher lossA sounderflasher fails to communicate with the BUSThe BUS restores communication with all the sounderflashers1noJammingWireless interference detectedWireless interference cleared1noLow battery WLSThe battery of a least one wireless detector is running lowAll the wireless detectors are running on low batteries1noWLS zone lossLoss of at least one wireless detector is running lowAll the wireless detector are present1noInstaller codeAn invalid code is entered at a keypad is recognized as valid1YesYesTel. line downThe land line is not working withing toke is used at a reader1YesHard resetThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue full OrgrammingAccess to system programming is authorizedEnd of system programming authorized1YesProgramming Output faultAccel is east of A noutput fails to switch status as commandedA call ends1no	Siren tamper	A sounder/flasher connected to the BUS signals tamper	All the sounderflashers connected to the BUS reset	1	no
Keypad lossA keypad fails to communicate with the 1-BUSThe BUS restores communication with all the system keypads1noReader lossA reader fails to communicate with the 1-BUSThe I-BUS restores communications with all the system readers1noSounderflasher lossA sounderflasher fails to communicate with the BUSThe BUS restores communication with all the sounderflashers1noJammingWireless interference detectedWireless interference cleared1noLow battery WLSThe battery of a least one wireless detector is running lowAll the wireless detectors are running on low batteries1noWLS zone lossLoss of at least one wireless detector is running low out)All the wireless detector are present1noInstaller codeAn Installer PIN entered at a keypad is recognized as validAll the wireless detector are present1YesFalse keyAn Invalid code is entered at a keypad1YesYesHard resetThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue fullThe call is answered1YesProgrammingAccess to system programming is authorizedEnd of system programming authorized1noOngoing callA call is sentA call ends1noOutput faultAn output fails to switch status as commandedAcall ends1Yes	Expansion loss	An expansion board fails to communicate with the I-BUS	The I-BUS restores communication with all the system expansion boards	1	no
Reader lossA reader fails to communicate with the 1-BUSThe I-BUS restores communications with all the system readers1noSounderflasher lossA sounderflasher fails to communicate with the BUSThe BUS restores communication with all the sounderflashers1noJammingWireless interference detectedWireless interference cleared1noLow battery WLSThe battery of a least one wireless detector is running lowAll the wireless detectors are running on low batteries1noWLS zone lossLoss of at least one wireless detector is running lowAll the wireless detector are present1noMLS zone lossAn installer PIN entered at a keypad is recognized as validAll the wireless detector are present1NoInstaller codeAn invalid code is entered at a keypad is recognized as valid1YesYesFalse keyAn invalid key is used at a reader1NoHard resetThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue full ProgrammingAccess to system programming is authorizedEnd of system programming authorized1NoOutput fault A noutput fails to switch status as commandedA call ends1no	Keypad loss	A keypad fails to communicate with the I-BUS	The BUS restores communication with all the system keypads	1	no
Sounderflasher lossA sounderflasher fails to communicate with the BUSThe BUS restores communication with all the sounderflashers1noJammingWireless interference detectedWireless interference cleared1noLow battery WLSThe battery of a least one wireless detector is running lowAll the wireless detectors are running on low batteries1noWLS zone lossLoss of at least one wireless detector has been signaled (supervisory time- out)All the wireless detector are present1noInstaller codeAn Installer PIN entered at a keypad is recognized as valid1YesYesTel. line downThe land line is not workingThe land line restores1noPeriodic eventThe Periodic Event occurs1YesHard resetThe corrol panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue full ProgrammingAccess to system programming is authorizedEnd of system programming1noOngoing callA call is sentA call ends1Yes	Reader loss	A reader fails to communicate with the I-BUS	The I-BUS restores communications with all the system readers	1	no
JammingWireless interference detectedWireless interference cleared1noLow battery WLSThe battery of a least one wireless detector is running lowAll the wireless detectors are running on low batteries1noWLS zone lossLoss of at least one wireless detector has been signaled (supervisory time- out)All the wireless detector are present1noInstaller codeAn Installer PIN entered at a keypad is recognized as validAll the wireless detector are present1YesInvalid codeAn invalid code is entered at a keypad1YesYesFalse keyAn invalid key is used at a reader1YesTel. line downThe land line is not workingThe land line restores1NoPeriodic eventThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue fullThere are no more slots left in the outgoing call queue1YesProgrammingAccess to system programming is a uthorizedEnd of system programming1noOngoing callA call is sentA call ends1noOutput faultAn output fails to switch status as commandedAcall ends1No	Sounderflasher loss	A sounderflasher fails to communicate with the BUS	The BUS restores communication with all the sounderflashers	1	no
Low battery WLSThe battery of a least one wireless detector is running lowAll the wireless detectors are running on low batteries1noWLS zone lossLoss of at least one wireless detector has been signaled (supervisory time- out)All the wireless detector are present1noInstaller codeAn Installer PIN entered at a keypad is recognized as validAll the wireless detector are present1YesInvalid codeAn invalid key is used at a keypad1YesFalse keyAn invalid key is used at a reader1YesTel. line downThe land line is not workingThe land line restores1NoPeriodic eventThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue fullThere are no more slots left in the outgoing call queue1YesProgrammingAccess to system programming is authorizedEnd of system programming1noOngoing callA call is sentA call ends1noOutput faultAn output fails to switch status as commandedA call ends1Yes	Jamming	Wireless interference detected	Wireless interference cleared	1	no
WLS zone lossLoss of at least one wireless detector has been signaled (supervisory time- out)All the wireless detector are present1noInstaller codeAn Installer PIN entered at a keypad is recognized as valid1Yes1YesInvalid codeAn invalid code is entered at a keypad1Yes1YesFalse keyAn invalid code is entered at a keypad1Yes1YesTel. line downThe land line is not workingThe land line restores1NoPeriodic eventThe Periodic Event occurs1Yes1Hard resetThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue fullThere are no more slots left in the outgoing call queue1YesProgrammingAccess to system programming is authorizedEnd of system programming1noOngoing callA call is sentA call ends1NesOutput faultAn output fails to switch status as commandedAcall ends1Yes	Low battery WLS	The battery of a least one wireless detector is running low	All the wireless detectors are running on low batteries	1	no
Installer codeAn Installer PIN entered at a keypad is recognized as valid1YesInvalid codeAn invalid code is entered at a keypad1YesFalse keyAn invalid key is used at a reader1YesTel. line downThe land line is not workingThe land line restores1NoPeriodic eventThe Periodic Event occurs1YesHard resetThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue fullThere are no more slots left in the outgoing call queue1YesProgrammingAccess to system programming is authorizedEnd of system programming1NoOngoing callA call is sentA call ends1NoOutput faultAn output fails to switch status as commandedA call ends1Yes	WLS zone loss	Loss of at least one wireless detector has been signaled (supervisory time- out)	All the wireless detector are present	1	no
Invalid codeAn invalid code is entered at a keypad1YesFalse keyAn invalid key is used at a reader1YesTel. line downThe land line is not workingThe land line restores1noPeriodic eventThe Periodic Event occursThe land line restores1YesHard resetThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue fullThere are no more slots left in the outgoing call queue1YesProgrammingAccess to system programming is authorizedEnd of system programming A call ends1noOutput faultAn output fails to switch status as commandedA call ends1Yes	Installer code	An Installer PIN entered at a keypad is recognized as valid		1	Yes
False keyAn invalid key is used at a reader1YesTel. line downThe land line is not workingThe land line restores1noPeriodic eventThe Periodic Event occurs1YesHard resetThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue fullThere are no more slots left in the outgoing call queue1YesSuccessful callThe call is answered1YesProgrammingAccess to system programming is authorizedEnd of system programming A call ends1NoOutput faultAn output fails to switch status as commandedA call ends1Yes	Invalid code	An invalid code is entered at a keypad		1	Yes
Tel. line downThe land line is not workingThe land line restores1noPeriodic eventThe Periodic Event occurs1YesHard resetThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue fullThere are no more slots left in the outgoing call queue1YesSuccessful callThe call is answered1YesProgrammingAccess to system programming is authorizedEnd of system programming1noOutput faultAn output fails to switch status as commandedA call ends1Yes	False key	An invalid key is used at a reader		1	Yes
Periodic eventThe Periodic Event occurs1HoHard resetThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue fullThere are no more slots left in the outgoing call queue1YesSuccessful callThe call is answered1YesProgrammingAccess to system programming is authorizedEnd of system programming1noOngoing callA call is sentA call ends1YesOutput faultAn output fails to switch status as commandedYes1Yes	Tel, line down	The land line is not working	The land line restores	1	no
Hard resetThe control panel re-initializes. The system clock may be wrong or not working properly.1YesCall queue fullThere are no more slots left in the outgoing call queue1YesSuccessful callThe call is answered1YesProgrammingAccess to system programming is authorizedEnd of system programming1noOngoing callA call is sentA call ends1YesOutput faultAn output fails to switch status as commandedA call sent1Yes	Periodic event	The Periodic Event occurs		1	Yes
Call queue fullThere are no more slots left in the outgoing call queue1YesSuccessful callThe call is answered1YesProgrammingAccess to system programming is authorizedEnd of system programming1noOngoing callA call is sentA call ends1noOutput faultAn output fails to switch status as commandedA call ends1Yes	Hard reset	The control panel re-initializes. The system clock may be wrong or not working properly.		1	Yes
Successful callThe call is answered1YesProgrammingAccess to system programming is authorizedEnd of system programming1noOngoing callA call is sentA call ends1noOutput faultAn output fails to switch status as commanded1Yes	Call queue full	There are no more slots left in the outgoing call gueue		1	Yes
Programming     Access to system programming is authorized     End of system programming     1     no       Ongoing call     A call is sent     A call ends     1     no       Output fault     An output fails to switch status as commanded     1     Yes	Successful call	The call is answered		1	Yes
Ongoing call     A call is sent     A call ends     1     no       Output fault     An output fails to switch status as commanded     1     Yes	Programming	Access to system programming is authorized	End of system programming	1	no
Output fault         An output fails to switch status as commanded         1         Yes	Ongoing call	A call is sent	A call ends	1	no
	Output fault	An output fails to switch status as		1	Yes

#### Installation and Programming Manual

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Via Keypad

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

- Message type
- Message A
- Message B

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

The choice of messages and the number of times they are played depends on the "AutomaticDialer" settings.

1. Accessing the "Events" section

Type-in Code (Installer PIN) or, PROGRAMMING Events or.

- 2. Use keys and to select the event type (if you are dealing with a group of events, repeat the operation) then press or.
- 3. Select:
- Activation to program the actions to be carried out when the event occurs.
- Restoral to program the actions to be carried out when the event ends.
  - 4. Successively, the parameters to program are:

### TelephoneNumbers

Program the call recipient numbers

### Message type

#### Message A

### Message B

Select the number of the message (see *Table 29: Event-related messages* and *Appendix D, Voice messages*):

1. Use keys and to select the field you wish to change, then use the number keys (1, etc.) to edit the number.

or

- Use keys and to increase or decrease the number.
- 2. Press or to confirm and exit.

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

Table 29:	Event-related r	nessages
"Automat	ic dialer"	۸"

	"Automatic dialer" enabled	"Automatic dialer" disabled	
Message type	Plays the message relating to the event type (e.g. "zone alarm", "Mains failure") This message should not be changed.	You can select any message from 1 to 219	
Message A	Blank messa	age, editable	
Message B	Contains event details, for ev	rents which are not distinctive	
	(e.g. the "zone alarm" event provides information regarding the zone concerned).		
Event	<ol> <li>Message type + 260</li> </ol>	<ol> <li>Message type</li> </ol>	
Activation	2. Message A	2. Message B	
Sequence	3. Message B	<ol><li>"Location" (message n.100)</li></ol>	
	<ol><li>"Location" (message n.100)</li></ol>		
Sequence in the	1. "Restored" (message	1. Message A	
event of	n.97)	2. Message B	
Restoral	2. Message type	<ol><li>"Location" (message n.100)</li></ol>	
	3. Message A		
	4. Message B		
	<ol><li>"Location" (message n.100)</li></ol>		



If an event is associated with the "Automatic dialer", the "Type Message" option refers to messages 261 to 312, that is to say, the messages containing the event descriptions (event types).



**PROGRAMMI NG** 



### Options

To be activated by keys  $\blacksquare *$  and  $\square *$ :

Option	If enabled	If disabled
Event ON to log	When the event occurs, it will be saved to the events log.	When the event occurs, it will not be saved to the events log.
Event OFF to log	When the event clears, it will be saved to the events log.	When the event clears, it will not be saved to the events log.
StartPeriodicEv.	When the event occurs, the system will generate the Periodic event.	
Silent event	If the event occurs, the system will generate silent calls which will not be signaled on the keypads.	If the event occurs, the system will generate calls which will be signaled on the keypads.
Clear call queue	When the event occurs, the system will cancel the outgoing call queue.	
Send address	In the case of voice calls, the system will include the address of the location alarm (refer to the <i>Table 29: Event-related messages</i> )	In the case of voice calls, the system will not include the address of the location alarm (refer to the <i>Table 29:</i> <i>Event-related messages</i> )
Local Message ON	When the event occurs, the system will play the event- related voice message on keypad speaker n. 1	
Local MessageOFF	When the event occurs, the system will not play the event-related voice message on keypad speaker n. 1	
Automatic Dialler	Refer to the <i>Table 29: Event-related messages</i>	
Priority	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.	

### **Class code**

This is the CONTACT-ID reporting format Class-Code which corresponds to the event.

#### **Event code**

This is the 2-character alphanumeric code, which corresponds to the event sent the alarm receiving centre (ARC). For zone and terminal events (alarm, tamper, bypass), the "CCC" field of the CONTACT-ID protocol counts the number of hard terminals in accordance with the Hard terminals table (refer to *Appendix E, Screw Terminals*).

#### Outputs

When programming the Event-Activation section, program the main output which will be activated when the event occurs. When programming the Event-Restoral section, program the main output which will be activated when the event ends.

Select the output from the list (which includes the Relay outputs, OC1, OC2 and the terminals configured as outputs and also the sounderflashers) and press or.

If the output has the "ON afterRestoral" option enabled (refer to paragraph 6-7 Outputs) and it is programmed on event restoral, the output will deactivate when the event occurs.

#### **Other outputs**

This section allows activation of added outputs (as well as the output programmed in the "Outputs" parameter) when the event occurs or restores.

These added outputs can be selected by means of keys  $\blacksquare \ast$  and  $\blacksquare \ast$  from a programmable list in the "Added Outputs" section.

#### OtherOutputsProg

This section allows the creation of the list of outputs (16 for "Activation" or 8 for "Restoral" to be programmed in the "Other outputs" section.

This is the sole list for the entire control panel and is independent of the type of event.

Note

Note

Use keys and to select and to confirm.

#### SirenSound types

This section allows you to select the audible-visual signals emitted by the sounderflashers, when these are programmed in the "Outputs" and "Other outputs" section.

Please note that the "Tone Type" is a parameter of the event. Therefore, if several sounderflashers have been programmed in relation to a specific event, they will all emit the programmed tone when the event occurs. If a sounderflasher has been programmed in relation to several events, it will emit the last tone type setting received in order of time.

Use keys and to select and to confirm.

For further information regarding the "Outputs", "Other outputs" and "Tone type" parameters of each event, refer to *Appendix F*, *Combination of outputs triggered by events*.

### Via PC

Table 30: Events - via SmartLeague software application

Option	Part of the system	Template/section	
TelephoneNumbers			
Message type			
Message A			
Message B		Brogramming	
Options	SmartLiving System - Events - select the event type	Frogramming	
Class code			
Event code			
Outputs			
Other outputs		Parameters settings - Other outputs	
OtherOutputsProg	SmartLiving System - Events	Parameters settings - Outputs	
Siren sound types	S SmartLiving System - Events - select the event type SmartLiving System - Siren p		

Timer

This programming section deals with the 10 system Timers.

A timer can be associated with a:

- **Partition** if a partition is associated with a timer which controls automaticarming operations (refer to *paragraph 5-4 Activations* in the *User's Manual*), it will arm when the timer switches ON and disarm when the timer switches OFF.
- **Code** if a code is associated with a timer, it will be enabled to operate the system when the timer switches ON, and disabled when the timer switches OFF.
- **Key** if a key is associated with a timer, it will be enabled to operate the system when the timer switches ON, and disabled when the timer switches OFF.

In order to associate timers with the partitions, codes and keys, it is necessary to access the respective control-panel programming section.

The timers must be enabled/disabled by the user (refer to *paragraph 5-4 Activations* in the *User's Manual*)).

When you exit the programming session (via keypad, PC or modem) all the timers will be enabled automatically, therefore, it will be necessary to reset the timers as before.

## Via Keypad

1. Accessing the "Timers" section:

Type-in Code (Installer PIN) or, PROGRAMMING Timers or.

- 2. Use keys and  $\overline{\langle m \rangle}$  to select the Timer then press  $(\mathbf{o}\mathbf{k})$ .
- 3. Using the same keys, select the day of the week.
- 4. Select "Activation" and/or "Restoral".
- 5. Use keys and to set the time (expressed in hours and minutes) and and to select the number.
- 6. Press **ok** to confirm and exit.

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

### Via PC

Select an item from "SmartLiving System - Timers" from the tree menu on the left, then go to the "Parameters settings" template on the right:

The SmartLeague software application allows you to program 15 setting exceptions for each timer (for holiday periods, etc.).

Each "timer exception" allows you to define different On and Off times for the selected interval (1 or more days, 1 week, etc.). The pre-set times will be applied



Note

for the entire interval. The system does not accept intervals which go over the end of the year. Therefore, it is impossible to program an interval such as 12th December to 5th January. In such situations, you must program 2 "timer exceptions", one from 12th to 31st December and the other from the 1st to 5th January, both with the same On and Off settings.

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

The "timer exceptions" cannot be programmed via keypad.

## Partitions

This programming section deals with the system Partitions and the respective options and parameters.

### Via Keypad

1. Accessing the "Partitions" section:

Type-in Code (Installer PIN) or, PROGRAMMING Partitions or.

2. Use keys and to select the partition then press or (

### Description

This is the editable partition label (description).

### Exit time

A period, expressed in minutes or seconds, during which the user must LEAVE the partition after arming the system (see the "info" box). If you set "0" in this field, there will be no Exit time (delay), therefore, any delayed zones, which belong to the partition, will generate alarms if they are not in standby status when the system arms.

### Entry time

A period (expressed in minutes or seconds) that the system allows the user to disarm the partition after violation of a delayed zone (for example, after opening the front door). If the system is not disarmed within the set time it will generate an alarm (see "info" box). If you set "0" in this field, there will be no Entry time (delay), therefore, any delayed zones will generate alarms instantly if they are violated when the system is armed.

### **Pre-arm time**

The period (expressed in minutes) before an automatic arming operation (see "info" box).

### **Patrol time**

An "Inspection" period (expressed in minutes) which allows patrol-key/code holders (security staff, night watchmen, etc.) to check the premises (see "info" box ).

All the above-mentioned "times" can be programmed as follows:

- Use keys and to choose whether to indicate the time in seconds or minutes (see "info" box)..
- 2. Use keys and to select the field you wish to change, then use the number keys (1, , etc.) to edit the number.

or

- Use keys and to increase or decrease the number.
- 3. Press or to confirm and exit.

### Timers

Select the timer you wish to associate with the "auto-am" operations.

Ensure that the partition "auto-arm" option is enabled in the respective section:

Type in Code (User) ок, Activations ок.

### Options

54

Auto-resetMemory - if enabled by means of the 
 key, each partition arming operation will reset the partition alarm/tamper memory automatically.









6-11



• **StopTelOn Disarm** - if enabled, the call queue will clear when the partition disarms.

### Via PC

Select an item from "SmartLiving System - Partitions" from the tree menu on the left, then go to the "Parameters settings" template on the right:

## **User Codes**

This programming section deals with the user code options/parameters. The user code PINs must comprise 4, 5 or 6 digits. The PIN of user code n. 1 is "0001" at default. The PINs of the successive user codes are "0002", "0003", etc.

## Via Keypad

1. Accessing the" Codes" section:

Type-in Code (Installer PIN) (OK), PROGRAMMING Codes (OK).

2. Use keys and to select the code then press or (

### Description

This is an editable programming field for the code user's name.

### **Partitions**

Select the partitions the user code is assigned to. Press  $\blacksquare *$ , to enable the partition and  $\square *$  to disable it.

#### Options

Use  $\blacksquare \ast$  and  $\square \ast$  to enable/disable the code options.

- Main User a main user can:
  - •• enable/disable all user codes except other Main User codes
  - •• change its own PIN, and the PINs of all user codes except other Main User codes

If this option is not enabled the user code will not have "Main User" status.

- **Partition filter** if this option is enabled for codes with "Main User" status, the user will have the authority of a "Main User" only on the partitions it is assigned to. For example, if a code is configured as "Main User" with Partition filter and is assigned to partitions 1, 3, 5 and 7, it will be able to enable/ disable and change the PINs of all user codes but not Main User codes assigned to these partitions.
- **Text menu** and **User menu** the combination of these two options allows instant access to the respective menus (the menu screens appear instantly on the keypad display) when the user PIN is typed-in at a keypad and or is pressed. Refer to the following table.

Case	Text menu	User menu	Description	
A	Disabled	Enabled	Accesses the standard user-menu; at this point the user can scroll the list using and and select the required option.	
В	Disabled	Disabled	Shows the personalized user-icons associated with function keys <b>F1</b> rn,, <b>F4</b> W; at this point the user can press the required function key and activate the respective shortcut.	
С	Enabled	Disabled	Shows the descriptions of the personalized user- icons associated with function keys. instead of the shortcut icons. The user can use and to scroll the list and select the shortcut, which can be activated by means of the ok key.	
D	Enabled	Enabled	The same as "C"	

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









• **AnnounceShortcut** - (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.

Set the "Loc.KpadMess Time" (refer to paragraph 6-25 Other parameters) to allow the system to play the messages associated with all the shortcuts assigned to number keys  $0 - 1, \dots, 9$  were.

 Remote access - if enabled, the code PIN can be used to operate the system from any remote telephone.

If the code PIN is entered on a remote telephone keypad, only the shortcuts associated with keys 0 to 9 can be used to:

- •• Arm/Disarm
- •• Stop alarms
- •• Clear call queue
- Delete memory
- •• Activate outputs
- •• Deactiv. outputs
- •• Listen-in
- •• Arming status

Any other type of command will have no effect.

• **Patrol** - if enabled, the code will be able to disable the system for the pre-set "Patrol time".

### Func.KeyShortcuts

This section allows you to program up to 12 shortcuts associated with keys  $F1_{Fn}$ , ..., F4. After valid PIN entry followed by K, the keypad will show the icons that correspond to shortcut keys  $F1_{Fn}$ , ..., F4. Press the corresponding key to activate the respective shortcut.

### 0/9 Key shortcuts

This section allows you to program up to 10 shortcuts associated with keys  $\bigcirc$ , ...,  $\bigcirc$  where  $\bigcirc$ . After valid PIN entry followed by  $\bigcirc$ , the user will be able to activate specific shortcuts by means of the number keys.

To assign the shortcuts to the function keys, work through the following steps.

- 1. Use key and or to select the key you wish to associate with the shortcut then press or.
- 2. Press or then use key or to select the shortcut you wish to associate with the key from the "Type" list.
- 3. Press or to confirm and exit.
- 4. If the shortcut is associated with "Arm/Disarm" operations, the application will ask you to select a scenario. If the associated shortcut is "Activate outputs" or "Deactiv. outputs", the application will ask you to select an output.

### Assigned outputs

This section allows you to enable/disable the outputs the code user can control manually via the **User Menu>Outputs ON/OFF**.

- 1. Use keys and to select the desired output.
- 3. Press or to confirm and exit.

### Timers

This section allows you to assign a timer to the code. The code will be operative only at the pre-set times.

### Enable/disable

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 the "User Menu" section. The programming steps are identical to those of "Outputs ON/OFF". Note

## Via PC

Select an item from "SmartLiving System - Users - Codes" from the tree menu on the left, then go to the "Parameters' settings" template on the right.

## Installer codes

This section allows you to program the functions of the 2 installer codes. The user code PINs must comprise 4, 5 or 6 digits.

## Via Keypad

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

### ChangeInst.PIN 1

For security reasons, you must change the PIN of the primary installer code (type-in twice). The PIN is "9999" at default.

### ChangeInst.PIN 2

For security reasons, you must change the PIN of the secondary installer code (type-in twice). The PIN is "9998" at default.

### Inst.code2Access

Use **•** and **•** to enable/disable the Installer-Menu sections the secondary installer code can access.

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

This section will allow you to program the parameters of the digital keys and Air2-KF100 wireless keyfobs (for details regarding the wireless keyfobs, refer to the Air2-BS100 Transceiver Installation guide).

## Via Keypad

Keys

Type-in Code (Installer PIN) (ok), PROGRAMMING Keys (ok).

### Enroll

Each digital key and wireless keyfob must be enrolled separately on the system in order to allow it to operate. The enrolling procedure is as follows.

- 1. View the readers in the control panel configuration. Select the reader you
  - wish to use in order to enroll the key/s, then press  $(o\kappa)$ . If you select a reader simulated by the Air2-BS100, a "W" will be shown at the end of the description.
- 2. Select the digital key you wish to enroll and press or. If you are using an nBy/S or nBy/X reader, all the LEDs will begin to blink to indicate that it is ready to enroll the key.
- 3. The keypad will indicate the current description of the digital key concerned.
- 4. Hold the digital key in the vicinity of the reader and then move it away. For Air2-KF100 wireless keyfobs, press contemporarily keys 3 and 4.
- 5. The keypad will emit a beep to confirm that the digital key has been successfully enrolled. If you are using an nBy/S or nBy/X reader, the red LED will go On. The digital key description will go to the next key automatically. This method (from step 4.) allows you to enroll as many digital keys as the system requires.
- 6. Once you have completed the enrolling process, press **Esc** or **C**

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

## Key parameters

This section allows you to program the digital keys.

- **Description** editable field for the name of the digital key user.
- **Partitions** the partitions the digital key is assigned to and therefore can control.



Readers

READER

READER

READER



Note

## 6-14

6-13



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#### • **Options** - activated by means of keys **•** and **•**, are:

Option	If enabled	If disabled	
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.		
Use keyShortcuts	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.	If a digital key is held in the vicinity of a reader, only the reader shortcuts will be indicated and, if configured, the first shortcut programmed on the digital key.	These options do not apply to Air2- KF100 wireless
DisarmNotAllo wed	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).	If a digital key is held in the vicinity of a reader when partitions are armed, the Disarm option will be allowed (all LEDs Off).	keyrods.

- 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".
- **Shortcuts** this section allows you to program up to 4 shortcuts (F1, F2, F3, F4) for each key.

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

- •• None
- •• Arm/disarm
- •• Stop alarms
- •• Clear Call Queue
- •• Delete memory
- •• Activate Output
- •• Deactiv. outputs
- •• Overtime
- •• Teleservice req.
- •• Voice guide

If a digital key is held in the vicinity of an nBy/S or nBy/X reader, the LEDs will run through a series of visual signals with the following meanings:

LED indicator sequence		Option: Use keyShortcuts		
		enabled	disabled	
1	Red LED On         Digital key shortcut F1         S		shortcut associated with the red LED on the reader	
2	Blue LED On	Digital key shortcut F2	shortcut associated with the blue LED on the reader	
3	Green LED On	Digital key shortcut F3	shortcut associated with the green LED on the reader	
4	Yellow LED On	Digital key shortcut F4	shortcut associated with the yellow LED on the reader	
5	All LEDs On	This sequence does not occur	Digital key shortcut F1	
		Option: Disar	rmNotAllowed	
6	All I EDs Off	enabled	disabled	
	···· • • • • • • •	No request to arm ALL the partitions common to both the key and reader.	Request to arm ALL the partitions common to both the key and reader.	

#### **Delete key**

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

- 1. Use  $\bigcirc$  or  $\bigcirc$  to select the digital key you wish to delete.
- 2. Press **•** to delete the selected digital key.
- 3. Press or to confirm and exit.

#### Enable/disable

This section allows you to enable/disable the digital keys:

- 1. Use is or to select the digital key you wish to enable/disable
- 2. Use keys \* or \* to enable/disable the selected digital key.
- 3. Press or to confirm and exit.

### Via PC

Select an item from "SmartLiving System - Users - Digital keys" from the tree menu on the left, then go to the "Parameters settings" template on the right.

**Arming scenarios** 

This section allows you to configure up to different 30 arming scenarios.

### Via Keypad

1. Access "Arming scenarios" section.

Type-in Code (Installer) (or, PROGRAMMING Arming scenarios (or).

2. Use keys or to select the scenario then press  $(\mathbf{o}\mathbf{k})$ .

### Description

Editable field for the description of the scenario.

### Icon

This section allows you to select the icon you wish to assign to the scenario, simply by indicating the icon number (refer to *Appendix B, Shortcuts at default*):

- 1. Use keys  $\bigcirc$  or  $\bigcirc$  to scroll across the digits.
- 2. Use the number keys (1, etc.) to edit the number.
- 3. Press **ok** to confirm and exit.

The "Arm" shortcut associated with function key F1 in to F4 will use (reveal) the icon selected in this section.

### Partitions

This section allows you to configure the scenarios of all the partitions managed by the various models.

- 1. Use keys or to select the partition, then press or.
- 2. Use keys or or to select the operating mode (Away, Stay, Disarm, etc.).
- **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.

#### Output

Each scenario, when applied, can activate one output (via keypad, at reader, over-the-phone, etc.). Use or to select the output then press or .

It is possible to use a scenario to activate an output. This can be done through the Scenarios section by simply leaving the respective "Partition" programming fields free (None), thus allowing the association of the Icons with the outputs.

3. Press **ok** to confirm and exit.

### Via PC

Select an item from "SmartLiving System - Scenarios" from the tree menu on the left, then go to the "Parameters settings" template on the right.

## Shortcuts

This section allows you to create up to 36 different shortcuts.

## Via Keypad

1. Accessing the "Shortcuts" section:

Type-in Code (Installer PIN) (or, PROGRAMMING Shortcuts (or.

2. Use keys  $\bigcirc$  or  $\bigcirc$  to select the shortcut then press  $\bigcirc$ .

### Description

This is the editable label which identifies the shortcut.



6-15

# Note

6-16



## inim

This section allows you to select the icon you wish to represent the scenario, simply by indicating the icon number (refer to *Appendix B, Shortcuts at default*):

- 1. Use keys  $\bigcirc$  or  $\bigcirc$  to scroll across the digits.
- 2. Use the number keys (1, etc.) to edit the number.
- 3. Press **OK** to confirm and exit.

## Via PC

Select an item from "SmartLiving System - Shortcut icons" from the tree menu on the left, then go to the "Parameters settings" template on the right.

## Expansions

This section allows you to program the digital keys.

## Via Keypad

Type-in Code (Installer PIN) or, PROGRAMMING Expansions or.

### Enable/disable

This section allows you to add/remove expansions from the I-BUS configuration, by means of keys  $\blacksquare \ast$  and  $\square \ast$ .

### ChoosePeripheral

This section allows you to edit the description of each expansion board.

## Table 31: Expansions - via SmartLeague software application

	ions the onnaiteedgae	e solution e application		
Option	Part of the system	Template/section		
Enable/disable	/	Project		
ChoosePeripheral	Expansions - select the expansion	Programming		

## Keypads



Type-in Code (Installer PIN) or, PROGRAMMING Keypads or.

This section allows you to program the digital keys.

### Enable/disable

This section allows you to add/remove expansions from the I-BUS configuration, by means of keys  $\blacksquare \ast$  and  $\square \ast$ .

### ChoosePeripheral

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

- **Description** editable field for the name of the digital key user.
- **Partitions** use **•** and **•** to enable/disable the keypad on the system partitions.
- Options:

60

- •• **Temperature off** if this option is enabled, the room temperature will be flashed in alternation on the display. This option applies to JOY/MAX keypads only.
- •• **SilentExitTime** enable/disable the buzzer during partition Exit Time.
- •• **SilentEntryTime** enable/disable the buzzer during entry partition Entry time
- •• **SignalExitTime** enable/disable the buzzer when terminal T1 on the keypad is activated as an output.
- **Func.KeyShortcuts** shortcuts assigned to keys **F1** = , ..., **F4**. Function keys F1 to F12 must be selected separately and programmed as follows:
  - •• **Type** this is the shortcut action which can be selected from those available (refer to *Appendix B, Shortcuts at default*). It is necessary to program an extra parameter for some shortcuts:

# 6-17





PROGRAMMI NG

Shortcuts





- "Arm/disarm", this parameter refers to one of the 30 scenarios
- "Activate outputs", this parameter refers to the output that will be activated
   "Deactive outputs" this parameter refers to the output that will be
- "Deactiv. outputs", this parameter refers to the output that will be deactivated

The "Listen-in" and "Arming status" will have no effect if the respective command is entered at a keypad.

- •• **Options** activated by means of **•** and **•** :
  - 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.
  - SecurityRiskCode if you enable this option, you must also enable the "Requires code" option. 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.
  - **Confirm** if enabled, the system will ask the user for confirmation

(press **ok**) before activating the 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.

### Via PC

### Table 32: Keypads - via SmartLeague software application

Option	Part of the system	Template/section	
Enable/disable	/	Project	
ChoosePeripheral	Keypads - select the keypad	Programming	

This section allows you to program the reader options.

## Via Keypad

Readers

Type-in Code (Installer PIN) OK, PROGRAMMING Readers OK.

### Enable/disable

This section allows you to add/remove readers to the I-BUS configuration, by means of keys  $\blacksquare$   $\ast$  and  $\blacksquare$   $\ast$ .

This is a reader simulated by the Air2-BS100, a ``W'' will be shown at the end of the description.

### ChoosePeripheral

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

- Description editable field for the name of the digital key user.
- **Partitions** use **•** or **•** to enable/disable the reader on the system partitions.
- **Shortcuts** this section allows you to program the shortcuts associated with the 4 differently-coloured LEDs on the reader. In order:
  - Red LED shortcut
  - Blue LED shortcut
  - •• Green LED shortcut
  - •• Yellow LED shortcut

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

- •• None
- Arm/Disarm
- Stop alarms
- Clear call queue
- •• Delete memory
- Activate outputs
- Deactiv. outputs
- Overtime
- Teleservice req.





61

CONTI NUE?OK=YES



PROGRAMMI NG

OK

Expansi ons

Keypads

Readers

## SMARTLIVING Prog. Address

This section allows you to activate the enrolling phase and program the addresses of nBy/S and nBy/X.readers.

Follow the instructions for addressing readers in paragraph 3-3-3 Addressing nBy readers.

## Via PC

### Table 33: Readers - via SmartLeague software application

Option	Part of the system	Template/section	
Enable/disable	/	Project	
ChoosePeripheral	Proximity readers - select the reader	Programming	
Prog. Address	Proximity readers	Programming	

## Sounderflashers

This section allows you to program the parameters of the sounderflashers connected to the IBUS.

### Via Keypad

Type-in Code (Installer PIN) (OK), PROGRAMMING Sirens (OK).

### Enable/disable

This section allows you to add/remove sounderflashers from the I-BUS configuration, by means of keys  $\blacksquare \ast$  and  $\square \ast$ .

### ChoosePeripheral

This section allows you to edit the description of each sounderflasher.

### Via PC

### Table 34: Sounderflashers - via SmartLeague software application

Option	Part of the system	Template/section	
Enable/disable	/	Project	
ChoosePeripheral	Sounders - select the sounder/ flasher	Programming	

## Language

## Via Keypad

This option allows you to select the language the system uses in the User and Installer menus (fault/alarm descriptions, etc.). However, the edited descriptions of the various system elements such as: zone, partitions, outputs, codes, descriptions will remain unchanged.

Use keys or to select the desired language and or to confirm.

## Messages

Via Keypad

This section allows you to record (and playback) all the voice messages. The Table in the Appendix shows all the pre-recorded messages provided by the SmartLogos30M voice board.

### 1. Accessing the "Messages" section:

Type-in Code (Installer PIN) or, PROGRAMMING Messages or.

2. Use keys or or to select the field you wish to change, then use the number keys (1.,, etc.) to edit the number.





6-21





## 6-20

### or

Use keys or to increase or decrease the number.

- 3. Press OK.
- 4. Use  $\bigcirc$  or  $\bigcirc$  to select the instructions for the selected message then press  $\bigcirc$ .

### Record

Before recording a voice message, you must first select:

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

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

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

### Play

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

### Delete

Delete message section. The control panel will ask for confirmation before deleting the message, by means of the  $(\mathbf{ok})$  key.

## Via PC

The Parameters settings template of the "SmartLiving System - Announcements" will allow you to:

- upload all the voice messages
- download all the voice messages
- format voice board

Select an item from "SmartLiving System - Announcements" from the tree menu on the left, then go to the "Parameters settings" template on the right and program the selected message.

## Default settings

Via Keypad

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

Reset to default can be carried out at a keypad via the installer menu (details follow), or via the control panel motherboard, using the following procedure.

- 1. Disconnect all power to the control panel (Mains and and battery power).
- 2. Short-circuit terminals "2" and "3" of the serial cable connector (refer to *Table 4: Control panels description of parts, S*).
- 3. Power-up the control panel and maintain the short-circuit condition on terminals "2" and "3" for at least 5 seconds.
- 4. Restore the short-circuit condition.

Within 70 seconds the control panel will reset to default settings, re-enroll all the peripherals currently on the I-BUS and, if a keypad is connected, will ask you to select the Language.

Reset to factory default will not clear the events log.

1. Access the "Default settings" section:

Type in Code (Installer) OK, PROGRAMMING Default settings OK.

2. Use keys or to select the function then press ok:





6 - 23

Serial port

### **SMARTLIVING**

Standby Unbypsed

Ο

Zone status

Res. 03310

Zone n. 77

## **Factory data**

If you select this option, the control panel will reset entirely to default settings.

### This operations deletes all the previously programmed parameters.

### Learn zone bal.

### (automatic acquisition of zone balancing settings)

If you select this option, the control panel will learn (save to memory) automatically all the balancing settings of all the zones (Patent Pending).

The zone-balancing options are:

- Normally Open •
- Normally Closed •
- Balancing (Single balancing)
- Double balancing
- Rollerblind with EOL •

The balancing settings which are not acquired accurately are:

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

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

- •• Wire and select the balancing settings of all the zones.
- Ensure that all the zones are in standby status
- •• Select the "Learn zone bal." option.
- •• Verify that the operation has been carried properly and that all the settings are accurate (if any zones are not in standby status during this process their settings will not be acquired accurately).
- •• Set manually any inaccurate settings.

### Auto enrolPeriph

If you select this option, the control panel will enroll automatically all the peripherals it finds on the I-BUS.

### CONTACT-ID only

If you select this option, the control panel will reset to default settings all the event codes used for the CONTACT-ID reporting format.

### DeletePrg.events

Press the ok key to delete all the events saved to the control panel events log (activation and restoral events):

- All outputs
- All calls
- All options

### WLS data reset

Press the **ok** key to delete all the data relating to the Air2-BS100 device.

The data relating to the wireless detectors and keyfobs will not reset on the control panel, nor will the devices simulated by the Air2-BS100 transceiver be deleted from the configuration.

3. The control panel will ask for confirmation of this command (press or).

## User functions

This section describes the functions the installer has in common with the user.

## Via Keypad

1. Access the "User functions" section:

Type-in Code (Installer) (OK), PROGRAMMING User functions (OK).

2. Use keys and  $\overline{(\infty)}$  to select the User functions then press  $(\mathbf{ok})$ .

## **ATTENTION!**







Note

## Installation and Programming Manual

View

# Events log - allows you to view all the events saved to the log. Alarms log - allows you to view all the events relating to zone/partition alarm and tamper saved to the log.

- **Faults log** allows you to view all the fault events saved to the log.
- Arm/Disarm ops. allows you to view all the arm/disarm operations saved to the log.

Use key 🕢 or 🔊 to scroll the chronological events list. For some events, key

 $\Diamond$  allows you to view the partitions details. For example, the details of an "Arm"

command will show the code and keypad concerned and, if you press , the list

of partitions involved.

- System voltage allows you to view the voltage the system uses.
- Zone status allows you to view the status of all the zones. Use key or to scroll the list of accessible zones.

The "Zone status" section allows you to view the zone status ("Standby", "Alarm", "Shorted", "Tamper"), the operating status (Unbypassed - able to generate alarms, or Bypassed - unable to generate alarms) and also the resistor value expressed in Ohm.

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

### **Outputs ON/OFF**

Allows manual activation/deactivation of the outputs by means of keys  $\blacksquare *$  and  $\Box *$ .

### Set date/time

Allows you to set the date and time of the control panel.

- 1. Use key 🖗 or 🖗 to select the programming field you wish to change (hour, minutes, etc.).
- 2. Use key or to change the value in the selected field.
- 3. Press **ok** to save and exit.

### Via PC

Table 35: User functions - via the SmartLeague software application

Option	Part of the system	Template/section
View/Log	SmartLiving system - Log	Programming
Set date/time	SmartLiving System	Programming

## Other parameters

Allows you to program the advanced functions of the control panel.

### Via Keypad

1. Access the "Other parameters" section.

Type-in Code (Installer PIN) OK, PROGRAMMING Other parameters OK.

2. Use key  $\bigcirc$  or  $\bigcirc$  to select the parameter then press  $\bigcirc$ .

### **Periodic event**

This parameter allows you to set the time (hh/mm), day, month and year of the first "Periodic event" (refer to paragraph 6-9 Events).

The time/date setting of this parameter must be later than the control panel clock setting.

### PeriodicInterval

This parameter allows you to set the interval between "Periodic events" (expressed in hours).

To disable the "Periodic event", set "0".







**SMARTLIVING** 



### SMARTLIVING

### Mains fail.Delay

This parameter allows you to program the delay, expressed in minutes (see "info" box ), between mains failure and the "Mains failure" fault event signal.

### LocKpadMessTimes

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. If you set a value of "255" the playback can be stopped by pressing any key, this is the only method of stopping playback.

### OverThePhoneVol.

This is the volume of the voice messages over-the-phone.

### **Ring sensitivity**

This value determines the reception sensitivity of incoming call rings. This option is useful in situations of bad reception (break up) or noisy lines.

At default this value is set at 50. Accepted values: 1 to 100. The higher the value the higher the sensitivity.

### Wireless superv.

This value determines the wireless-detector supervision time. Once the pre-set time expires, the detectors which do not respond will be signaled as lost. Accepted values: 12 to 250 minutes.

### Tel. input gain

This value determines the volume of the incoming call signal. This option is useful in situations which require better comprehension of DTMF tones and improvement of teleservice intervention via modem.

### Adj. temperature

This parameter will allow you to enter the effective value of the room temperature read by an external thermometer. This value will replace the keypad temperature reading and thus allow you to correct the temperature sensor on the keypad you are working on (Joy/MAX only).

The entered value must be expressed in °C decimals (for example, type in 252 if the temperature is 25.2 °C).

### LowBattDelay

This parameter will allow you to program the delay, expressed in minutes, which will be applied before "LowBattery" events are signaled.

### LinedownDelay

This parameter will allow you to program the delay, expressed in seconds, which will be applied before "LineDownDelay" events are signaled.

All the above-mentioned parameters can be programmed as follows.

3. Use key 🔮 or 🔌 to select the field you wish to change, then use the number keys (1, , etc.) to edit the number.

or

Use key or or to increase or decrease the number.

### FaultNotReady

This section allows you to select which events, other than zones in alarm status, will be signaled as system security-risk conditions when the partition arms.

Following are the events which can be enabled/disabled by means of keys  $\blacksquare \ast$  and  $\blacksquare \ast$ :

- Zone fuse fault
- IBUS fuse fault
- Low battery
- Mains failure
- Tel. line down
- Jamming
- Low battery WLS
- WLS zone loss
- LossTamp.ongoing



OverThePhoneVol. 00\_ Units (Min. 010) (Max. 100

Tel. input gain 00\_ Units (Min. 001 (Max. 080)





nim

The last item groups the following events:

- Panel opened
- •• Dislodged panel
- •• Expansion tamper
- •• Keypad tamper
- Reader tamper
- •• Siren tamper
- •• Expansion loss
- •• Keypad loss
- •• Reader loss
- •• Sounderflasher loss
- 4. Press or to confirm and exit.

### Via PC

### Table 36: Other options - via the SmartLeague software application

Option	Part of the system	Template/section	
Periodic event		Parameters settings - periodic event	
PeriodicInterval	SmartLiving System		
Mains fail.Delay		Parameters settings - I-BUS parameters	
LocKpadMessTimes	Keypads	Parameters settings - Keypad parameters	
OverThePhoneVol.	SmartLiving System	Parameters settings - Telephone options	
Ring sensitivity	SmartLiving System - Telephone Parameters settings - Telephone parameters		
Wireless superv.		Parameters settings - Control panel parameters	
Tel. input gain	SmartLiving System	Parameters settings - Telephone options	
LowBattDelay		Parameters settings - I-BUS parameters	
LinedownDelay	SmartLiving System - Telephone	Parameters settings - Telephone dialer parameters	
FaultNotReady	SmartLiving System Parameters settings - 50131 Parameters		

## **Telephone line adjustment**

The "OverThePhoneVol." and "Tel. input gain" parameters can be used to correct the voice functions of the dialer and the DTMF tones. The values of these parameters affect each other, therefore, and a good result is always a compromise.

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

- Adjust one parameter at a time and carry out tests to verify the result.
- Increase/decrease the values in small steps (for example, from 25 to 22 and not from 25 to 15).
- If the DTMF tones are not recognized, or are recognized with difficulty, decrease the value of the "Volume Tel.voice" parameter (in small steps of 2 or 3 units) and verify the effect. If there is no improvement, increase the value of the "VolumeTel. In." parameter until an acceptable combination is achieved.

Do not increase the "VolumeTel. In" parameter excessively, as an excessive value may cause incorrect interpretation of DTMF tones.

• If the volume of the telephone messages is low, increase the "Volume Tel.voice" (in small steps of 1 or 2 units) and verify the effect. An excessive value of the "Volume Tel.voice." parameter may cause incorrect interpretation of DTMF tones.

In most cases, the value of the "Volume Tel.voice" parameter is between 15 and 25, whereas, the value of the "VolumeTel. In." parameter is between 20 and 30.

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

• If the DTMF tones are not recognized, or are recognized with difficulty, increase the value of the SmartLINK "VolumeTel.In" parameter by 1 or 2 notches over the medium value "M" then verify the effect. If there is no improvement, decrease the value of the "VolumeTel.In." parameter of the SmartLiving control panel until an acceptable combination is achieved..

Any changes to the value of the SmartLink "VolumeTel.In." parameter come into effect almost 2 minutes after the setting change, therefore, you must allow this time to pass before verifying the effect.

Note

6-25-1



## ERRORS AND FAULTS

## Communication BUS (I-BUS)

The control panel monitors the I-BUS continuously.

If no signals (control panel and peripheral signals) are detected on the I-BUS for over 40 seconds, the keypad displays will show the warning opposite. The display will show the:

- 1. Keypad model
- 2. Keypad firmware version
- 3. Error type
- 4. Keypad address and built-in reader address (Joy/MAX only)

First check that cable ``D'' of the I-BUS is connected properly. Then check the proper operating capacity of the I-BUS and the general integrity of the entire system.

If the message opposite appears on the keypad display, it means that I-BUS is operating properly but cannot communicate with the keypad in question.

Therefore, the keypad is not present in the system configuration.

One of the two messages shown in the figures may also appear during the control panel firmware updates.

# 7-1





Note

7-2

## **LED** activity

The blue and yellow LEDs on the control panel motherboard (refer to *Table 4: Control panels - description of parts, X*) may help in providing information regarding the proper operating capacity of the control panel firmware and I-BUS, as follows.

### **Blue LED**

If the control panel is operating properly, the blue LED on the motherboard will blink rapidly. However, at the end of a programming session via keypad or PC, or during restoral of default settings or re-programming operations, the LED may be either On solid or Off. It will blink rapidly once the operation is completed.

If the LED is On or Off permanently for no apparent reason (see above), it means that all the system functions are blocked.

Shut the system down and contact your dealer immediately.

### **Yellow LED**

If the control panel is operating properly, the yellow LED on the motherboard should flicker. However, at the end of a programming session via keypad or PC, or during restoral of default settings or re-programming operations, the LED may be either On solid or Off. It will blink rapidly once the operation is completed.

If the yellow LED is On or Off permanently, it means that there is trouble on the I-BUS.

If the LED is On or Off permanently for no apparent reason (see above), it means that the I-BUS is blocked. This condition is confirmed by the loss of communication with the keypads, readers and expansions.

Check the integrity of the I-BUS line.

7-3

## **Ring Sensitivity**

The various configurations of modern telephone lines and the multiplicity of signals that transit along them, require major attention in the design of phone-line interfaces. The optimized phone-line interface on-board SmartLiving control panels has been especially designed to satisfy present day requirements. In addition to the traditional telephone plug for land line (PSTN) connections, there are usually boards for ISDN or ADSL connections.

If there are ADSL filters on the line, it will be necessary to connect the control panel downstream of the filters, to the line dedicated to telephone equipment (this line is clearly indicated on the filters).

Following are two "trouble" conditions which may be caused by ISDN or ADSL connections, etc. , and the "actions" you must take if you encounter such problems.

- **Problem** The control panel is enabled for "Answerphone" and "Teleservice" functions but fails to pick up incoming calls after the programmed number of rings or picks up after more rings than programmed. **Answer** Increase the value of the "Ring Sensitivity" parameter to a suitable level.
- **Problem** The control panel is enabled for "Answerphone" and "Teleservice" functions but picks up during "through" calls (calls that should not involve the control panel). **Answer** Decrease the value of the "Ring Sensitivity" parameter to a suitable level.



## TECHNICAL TERMINOLOGY AND GLOSSARY

<ul> <li>A terminal configured as a Controlled Output (I/O, input-output) is capable of reading the status of the output.</li> <li>This configuration can be used for creating automations, for example the condition of an alarm condition on "AND" zones:</li> <li>the single alarm events of two zones activate respectively an output terminal and an I/O terminal</li> <li>both the outputs are monostable, for example at 30 seconds</li> <li>the terminals are shorted</li> <li>The input section of I/O terminals triggers the alarm actions (calls and sounderflashers), only when the two zones are both violated (AND) within the monostable time of the outputs.</li> </ul>	I/O TERMINAL
This device allows the control panel to send voice calls to programmed contact numbers. In SmartLiving control panels the voice dialer function is provided by the SmartLogos30M board (accessory item).	VOICE DIALER
Violation of a zone with this attribute will generate an instant alarm even when the partitions it belongs to are disabled. The system will generate the respective alarms which will be shown on the keypad. These zones usually monitor conditions that are not directly connected to intrusion control. For example, Water tank overflow and flooding detectors are usually configured as 24H zones.	24 HOUR ZONE
<ul> <li>These are 4, 5 or 6 digit PINs which allow the building occupants (users) to access the system. Each code can be programmed to control specific functions only, and to operate the system to suit the requirements of the Main user.</li> <li>Code types</li> <li>Installer code:used by the installer company technician</li> <li>User code:assigned to the building occupants</li> </ul>	ACCESS CODES
Detection of non-authorized entry into the protected building. More specifically, activation of alarm signaling devices (detectors).	ALARM
A parameter generally associated with zones. This value determines the number of alarm events a zone can generate before the partitions it belongs to disarm. This value (number of alarm events) resets to zero when the zone partitions re-arm or reset. If a zone is allowed to generate an unlimited number of alarm events, it is classified as a "repetitive" zone.	ALARM CYCLES
In the event of: • Zone Alarm • terminal tamper • open panel or dislodged panel • peripheral tamper (keypads, expansions, readers) • peripheral loss (keypads, expansions, readers) • false key The red LEDs on the system keypads and readers go On each time one of the previously- mentioned events occur. This visual warning signal is held even after the event ends (alarm memory), in order to warn you that an event occurred during your absence. This visual warning signal will be held until you clear the event memory (refer to Delete Memory).	ALARM OR TAMPER MEMORY
This is a private company that monitors premises protected by intrusion control systems equipped with Digital or Voice dialers (refer to Digital dialer and Voice dialer). Alarm Receiving Centres receive alarm reports from monitored systems and take all the necessary actions to protect the occupants of the protected premises.	ALARM RECEIVING CENTRE (ARC)
The "Answerphone" function, if enabled by the user, allows the control panel to answer incoming calls after a pre-set number of rings. The control panel will pick-up and play the recorded answer message. During the call, the recipient can type-in a valid PIN (enabled for over-the-phone control) and access the authorized functions.	ANSWERPHONE
User operations on one or more partitions. These generally indicate also the status of the partitions. Under normal circumstances, the zones of armed partitions can generate alarms. Under normal circumstances, the zones of disarmed partitions cannot generate alarms. The system generates tamper alarms even when partitions are disarmed.	ARM/DISARM
You can enable/disable the Auto-arm function on each separate partition. If the auto-arm option is enabled on a timer-controlled partition, the partition will arm/disarm in accordance with the ON/OFF settings of the timer.	AUTO-ARM

inim

Technical terminology and Glossary

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.

This is the secondary power source of the system. If primary (230 Vac) power failure occurs, the battery will take over.

SmartLiving control panels use sealed lead batteries. The battery housing determines the maximum size of the battery and therefore, its power-storage capacity. SmartLiving control panels provide housing for one battery @12V 7Ah. The control panel monitors the battery continuously and keeps it is under constant charge (from Mains).

Connection of a zone to a terminal configured as an input. It is necessary to program the balancing of each separate zone and wire the terminal accordingly. The SmartLiving intrusion control panel provides 6 different types of balancing, as follows:

- Normally Open
- Normally Closed
- EOL
- DEOL
- Double zones (only terminals with DOUBLING configuration)
- Double zones with EOL (only for terminals with DOUBLING configuration)
- DEOL and customized zones can discriminate 4 conditions:
- Short-circuit
- standby
- alarm
- tamper

If you observe the Events list, you will see that there is an alarm event for each zone and a tamper event for each terminal. This is because a terminal configured as a double zone (or double zone with EOL) must be able to discriminate between alarm and standby conditions on each single zone, whereas tamper and short-circuit conditions involve the entire terminal and not the single zone.

An output, that once activated, requires an explicit command to deactivate it. Generally, bistable outputs are used to provide immediate signaling (in real-time) of specific events that occur on the system. For example, if the "Mains Failure" event is associated with a bistable output that is connected to a LED, the LED will signal the event immediately.

These zones operate in the same way as 24h zones, but do not generate partition alarms or visual signals on the system reader and keypad LEDs. Zones configured in this way can be used for automation applications.

A list of outgoing event-associated calls the control panel must send to programmed contact numbers.

Enabled users can clear the call queue manually.

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. This function is widely used in commercial buildings (shops, etc.), and is generally associated with the zone that monitors the entrance to the premises in order to signal the arrival of customers.

Activation of a zone with this configuration generates the command it is assigned to. SmartLiving control panels manage the following commands:

- **Disarm zone**: if activated, it will disarm all the partitions it belongs to. Zones configured in this way can be used to disarm partitions by means of a keyswitch.
- **Arm zone**: if activated, it will arm all the partitions it belongs to. For example, keyswitches are usually configured as command zones.
- **OnArm/OffDisarm zone**: if activated, it will generate an arm-partitions command and, the instant it restores to standby, a disarm-partitions command. The command will affect only the partitions the zone belongs to. Zones configured in this way can be used to arm/ disarm partitions by means of a keyswitch.
- Switch zone: if activated when all the partitions it belongs to are disarmed, it will arm all the partitions. If activated when even one of the partitions it belongs to is armed, it will disarm all of its partitions. The command will affect only the partitions the zone belongs to. Zones configured in this way can be used to arm/disarm partitions by means of a keyswitch.
- **Patrol zone**: if activated, it will have a patrol function in all the partitions it belongs to.

A group of operating parameters set at the factory by the manufacturer. The purpose of these settings is to reduce the work of the installer during the installation phase. The installer can restore the system to "Default Settings" if necessary.

Violation of a zone with this configuration will not generate an alarm but will trigger the associated Timer (Entry time). If the user does not disarm the partition/s within the set "Entry time", the system will generate an alarm.

For example, the zone that monitors the main door of a building is usually configured as a Delayed Entry Zone, in order to give building occupants time to enter the building and disarm the partition without generating an alarm.

DEFAULT SETTINGS

### DELAYED ENTRY ZONE

**AUTO-BYPASSABLE** 

**BACKUP BATTERY** 

BALANCING

ZONES

## inim

### BISTABLE OUTPUT

### BUILDING AUTOMATION ZONE

CALL QUEUE

#### CHIME ZONE

### **COMMAND ZONE**

SMARTLIVING	inim	Installation	and Programming Manual
Violation of a zone with this configuration will not associated Timer (refer to Exit time). For example, the zone that monitors the main do configured as a delayed exit zone, in order to give o an arming operation. If the user does not leave the z will generate an alarm.	generate an alarm but will t or of a residence or building ccupants time to leave the par one within the set "Exit time", t	rigger the is usually tition after he system	DELAYED EXIT ZONE
This is an explicit user-command which ends signalin following events: • zone alarm • terminal tamper • open panel or dislodged panel • peripheral tamper (keypads, expansions, readers) • peripheral loss (keypads, expansions, readers) • false key If you delete the alarm/tamper memory, the visual siclear.	ng on the red keypad/reader L ) ignals on the red reader/keypad	EDs of the	DELETE ALARM/ TAMPER MEMORY
This device allows the control panel to send report ca SmartLiving control panels provide a built-in digital used protocols.	alls to Alarm Receiving centres ( dialer which supports all the m	(ARC). ost widely	DIGITAL DIALER
An electrical input point used for the management intrusion detection devices. The terminal the zone is connected to must be configuration allow the system to distinguish from the two different zones it is connected to.	nt/supervision of signals comin gured as a "double input zone". iish between two distinct alarr	ng from 2 Terminals ns coming	DOUBLE ZONE
The time (expressed in minutes or seconds) that the partition after zone violation. It the system is not dis an alarm.	ne system allows the user to o armed within the set time it wi	lisarm the Il generate	ENTRY TIME (OR ENTRY DELAY)
A status or operative mode recognized by the system For example: detector alarm, mains failure, user-cod Each event (e.g. mains failure) can be associated w occurs) and a restoral event (when the event ends). Each event can be programmed to generate the follo • activation of one or more outputs • transmission of one or more e-mails • activation of one or more voice calls • activation of one or more digital calls For example, it is possible to activate output 3 when when it restores.	n. e recognition, etc. vith an activation event (when wing actions: the event starts and to activat	the event e output 5	EVENT
This is the non-volatile portion of the memory the saved in chronological order with the following details • event description - with details regarding new even • information regarding the user or the cause of even • event location • event date and time The events log can be viewed by the system users ar Partition events (zone alarms, partition alarms, arm/ keys, etc.) can be viewed by users with at least of element. For example, if a user arms several partitions from a • description of the event - "Arm request" • description of the code and partitions involved • description (label) of the keypad involved • date and time of the request	panels saves events to. The est ents and restorals ent d the installer. disarm operations, recognized one partition in common with keypad, the events log will sho	codes and the event	EVENTS LOG (OR EVENTS MEMORY)
A short period (expressed in minutes or seconds) partition after violation (for example, after opening generate an alarm. Each partition can be programmed with its own Exit t	during which the user must of the front door) otherwise the stime.	lisarm the ystem will	EXIT TIME (OR EXIT DELAY)
<ul> <li>These boards can be used to increase the number of size of the system (in order to extend it over a connected to the system via the I-BUS.</li> <li>The Flex5 expansion has: <ul> <li>5 fully-programmable terminals</li> <li>a Buzzer (for audible signals)</li> <li>1 analogue output</li> </ul> </li> </ul>	f terminals (zones or outputs) larger area). Expansion boar	and/or the ds can be	EXPANSION BOARDS (FLEX5)
A condition which indicates that a system component Some faults can jeopardize the performance of the telephone line-down and low battery are typical fault	: is not working properly. entire system. Mains failure (2 s.	30V a.c.),	FAULT
This type of zone usually comprises a motion det movement in the protected partition. For examp magnetic contacts on doors and windows.	ector which senses for the pi le, PIRs, Double technology	resence of detectors,	GENERIC ZONE
Installation and Programming Manual	inim	SMARTLIVING	
--	--	----------------------------------	
This device allows the system to send calls over the SmartLink is a custom GSM interface for IN providing the control panel with a telephone line (line cutting). This function increases the level of	the GSM network. IIM control panels. This device is capable of e even in the event of telephone line tamper security considerably.	GSM INTERFACE	
This is the two-way communication line (4 wires (keypads, readers, expansions, etc.) to the contron The 4 easily identifiable wires, on the control pan • "+" power 12 Volt • "D" data • "S" data • "-" Ground	only) which connects the peripheral devices ol panel. el motherboard and on the expansions, are:	I-BUS	
The Installer code is identified by a 4, 5 or 6 dig the system Programming Menu either from application, on condition that all the system parti	it PIN. This PIN allows the installer to access a keypad or via the respective software tions are disarmed.	INSTALLER CODE	
List of system functions and respective paramete This menu allows the installer to program, cl parameters. The Installer Menu can be accessed SmartLeague software application, on condition t	rs accessed via keypad. neck and change nearly all of the system I from any keypad or via computer with the hat all the system partitions are disarmed.	INSTALLER MENU	
Violation of a zone with this attribute will generat	e an immediate alarm (no delay).	INSTANT ZONE	
A zone that monitors the inside of the protected l For example, the interior zones of an office bui	ouilding. Iding are the zones that monitor offices and	INTERIOR ZONE	
If a partition that a zone belongs to is armed alarms.	in Stay mode, it will be unable to generate		
<ul> <li>A control device (card or keyfob) which allows the The key must be held in the vicinity of the reade and permit access to authorized operations.</li> <li>Each key is programmed with: <ul> <li>A random code selected from over 4 billion pc</li> <li>A label (usually the name of the user).</li> </ul> </li> <li>The partitions it controls (arms, disarms, etc.)</li> <li>A group of pre-set parameters which allow accordance with the authorized access level arm or disarm the system only at certain time</li> </ul>	e authorized user to access the system. r in such a way to allow the system to read it assible combinations. ). w the key user to operate the system in (for example, a key can be programmed to as of the day).	KEY	
<ul> <li>This device allows users to access and control the system via the I-BUS.</li> <li>The keypad is equipped with:</li> <li>LCD graphic display</li> <li>2 terminals</li> <li>alphanumeric keys for code and data entry</li> <li>LEDs for visual signals</li> <li>a buzzer (for audible signals)</li> <li>microphone and speaker (Joy/MAX only)</li> <li>built-in reader (Joy/MAX only)</li> <li>temperature sensor (Joy/MAX only)</li> <li>The keypad allows users to access and control to code and keypad in use. The user can arm/distop visual and audible signaling devices.</li> </ul>	he system. Keypads can be connected to the he partitions which are common to both the arm partitions, view the status of the zones,	KEYPAD (JOY)	
A generic magnetic-contact is a detector/sensor left the sensor, provokes the mechanical closure of an The Air2-MC100 wireless device comprises a may which can be configured as either inputs or outp horizontal magnetic sensor and a vertical magnetic device.	pased on an magnet which, when placed near n electrical contact. agnetic-contact with 2 terminals (T1 and T2) uts. The magnetic-contact is equipped with a etic sensor, positioned along the sides of the	MAGNETIC CONTACT (AIR2-MC100)	
If you wish to carry out maintenance work on (tamper and intrusion), you must put the contro panel in must also be in "Maintenance" mode process. The other functions of the control pane events, calls, etc.).	the control without generating false alarms of panel in "Maintenance" mode. The control during the keypad and reader addressing el are still available (arm/disarm operations,	MAINTENANCE	
An output, that once activated, does not requir- output must be programmed with a timeout minutes). Once activated, this output will rem expires. Generally, monostable outputs are used to provid associated with. For example, if the "Alarm Parti output with a 2 minute timeout, the output (sour will deactivate automatically.	e an explicit command to deactivate it. This (Monostable time expressed in seconds or ain active until the pre-set Monostable time le continuous signaling of the events they are tion 1" event is associated with a monostable inder) will signal the event for 2 minutes then	MONOSTABLE OUTPUT	
An advanced wireless-technology system in w equipped with a transceiver module. If a detector number of event transmissions which under the panel.	hich the control panel and its devices are r senses an alarm condition, it will generate a right circumstances should reach the control	ONE-WAY WIRELESS SYSTEM	

An electrical output point connected to a signaling or control device activated/deactivated by OUTPUT the control panel in response to programmed events.

The terminal the device is connected to must be configured as an "output". Outputs are usually connected to audible or visual signaling devices but can be used for other purposes such as: switching on lights or opening doors/gates.

A group of zones.

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A partition identifies a group of zones that belong to a spatial or logical portion of the protected premises. For example, a partition may comprise all the zones that protect the downstairs partition of a house (spatial partition), or all the entrances of an office building (logical partition).

This refers to the status of a partition as requested by the user.

The user can carry out the following operations.

- **Disarm** this operation disables the partition completely. In this way, none of the zones belonging to the partition can generate alarms.
- Away mode this operation enables the interior and perimeter zones of the partition. In this way, all of the zones of the partition can generate alarms.
- **Stay mode** this operation enables only the perimeter zones of the partition. In this way, only the perimeter zones of the partition can generate alarms.
- **Instant mode** this operation enables the partition perimeter zones only and annuls delays. In this way, violation of the perimeter zones of the partition will generate instant alarms.
- Hold this operation forces the partition to hold its current status.

A periodic inspection of the protected premises carried out by authorized security staff. Patrol staff can disarm each partition for the pre-set time only (programmable separately for each partition). The partitions concerned will rearm-as-before automatically when the pre-set time expires. Persons involved in periodic security inspections require codes with the "Patrol" attribute.

If the system receives a partition disarm command (generated by a code or key) while the patrol time is running, the "Patrol" function will be interrupted immediately. In this case, when the patrol time expires the partition will not be re-armed automatically and therefore, will be disarmed.

A zone that monitors the entrance points of the protected building.

Perimeter zones are usually direct entrance points such as doors and windows. For example, the front door of an apartment and windows that allow access from outside.

Devices connected to the control panel via the I-BUS.

SmartLiving control panels manage the following peripherals:

- JOY series Keypads
- Proximity Readers (nBy)
- Expansions (Flex5) Transceiver (Air2-BS100)
- •
- Sounder (Ivy)

The period (expressed in minutes) before an automatic arming operation. For example, if a partition is set to arm automatically at 10:30 with a Pre-arm time of 5 minutes, all the partition keypads and readers will initiate an audible countdown at 10:25 in order to warn users of the forthcoming arming operation. Each partition can be programmed with its own Pre-arm time.

The installation site.

Identifies the building or part protected by the intrusion control system, generally, a house or office.

Under normal circumstances, the mains power supply (230Vac) 50 Hz (110V a.c. 60Hz in some countries).

Usually connected to a switching power supply or transformer (depending on the model) that provides the stabilized voltage to the system and the charge source to the batteries.

This device allows users to access and control the system. The system readers are connected to the control panel via the I-BUS.

- Readers are equipped with: LEDs for visual signals
- a buzzer for audible signals (nBy/S only)
- key reader (TAG)

The key (TAG) allows the user to activate shortcuts (refer to Shortcuts) and arm/disarm the partitions which are common to both the key (TAG) and reader in use. The key (TAG) must be held in the vicinity of the reader in such a way to allow the system to read it and permit access to authorized operations. Although readers provide a more limited access to the system, they are easiest way of carrying out day-to-day operations (arm, disarm, etc.).

This type of zone comprises a sensor that detects any movement of the protected rollerblind.

Violation of a zone with this configuration will not generate an alarm during the pre-set Entry time (refer to Entry time).

For example, the zones that monitor the way to a command device (Keypad/Reader) are usually configured as Path Zones, in order to give building occupants time to enter the building, reach the command device (Keypad/Reader) and disarm the partition without generating an alarm.

Violation of a zone with this configuration will generate an instant alarm if the Entry time (Entry delay) has been revoked (as per Stay Mode).

PARTITION

#### **PARTITION ARM/ DISARM OPERATIONS**

PATROL

#### PERIMETER ZONE

#### PERIPHERALS

#### **PRE-ARM TIME**

PREMISES

PRIMARY POWER SOURCE

READER (NBY)

#### **ROLLERBLIND ZONE ROUTE ZONE**

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A pre-set arming configuration which applies various operating modes to the system **SCENARIO** partitions. Following is an example of a pre-set scenario: Partition 1Disarm Partition 2Away arm Partition 3Stay arm • Partition 4Hold Partition 5Disarm SmartLiving control panels can be programmed (by the installer) with as many as 30 scenarios in accordance with user requirements. The "Arm/disarm" shortcut must always be associated with one of the 30 available scenarios. When the system applies the selected scenario, the partitions will arm accordingly. This type of zone usually comprises a shock detector (e.g Glassbreak detector) which senses SHOCK ZONE for shock waves (vibration caused by hard blows). The shortcuts allow quick access to User Menu options which normally require several step-by-SHORTCUTS step operations. For example, to activate/deactivate an output manually, you must: 1. Type in a user code. 2. Access the User Menu. 3. Select the option (activate outputs). 4. Select the required element (output). 5. Activate/Deactivate the selected element (output). Instead, the "Activate outputs" and "Deactiv. outputs" shortcuts allow you to activate/ deactivate an output by simply pressing a single key or, if required for security reasons, after entering a user code. The shortcuts can assigned to: keypads codes (entered at the keypad or via remote telephone) . readers keys Some shortcuts (for example, "Activate Outputs") require details before the system can implement them. These details (parameter, value, etc.) depend on the source of the shortcut command (keypad, code, reader, keys). Refer to the details in the *Appendix B, Technical terminology and Glossary* shortcuts list. Shortcuts 0 to 8 implement their associated actions instantly whereas, shortcuts 10 to 35, which can be activated from keypads only, access the menu section specified by the user. Activation of a zone with this configuration generates an immediate alarm even when the partition it belongs to is disabled. Furthermore, audible and/or visual signaling devices will not be activated (silent alarm), therefore, even calls generated by the alarm will not be revealed. SILENT ZONE (OR DURESS ZONE) Under normal circumstances zones with this attribute are activated manually (using hidden buttons or similar devices) in situations of duress (armed robbery, etc.). If you wish to create a silent alarm zone, simply assign the "Silent" attribute to the zone alarm event. Spot events are events that restore automatically immediately after their activation. Some of **SPOT EVENTS (PULSE** the previously mentioned events are spot events. **EVENTS)** For example, the "valid code" event activates as soon as the code is entered at the keypad, therefore, it is impossible to determine its restoral as it starts and ends instantly. Pulse events (Spot events) can be programmed to activate: an output and calls when the event occurs an output when the event restores (only if the output has the option "ON afterRestoral" activated) Under normal circumstances, spot events are assigned to monostable outputs (Refer to Monostable Outputs). An output that is monitored and therefore allows verification of its improper operating capacity SUPERVISED OUTPUT (unsuccessful activation/deactivation). The "supervision time" is the interval during which the wireless-system devices (in general wireless detectors in permanent placements) must signal to the control panel that they are operating in the network. If a wireless device fails to signal before the "supervision time" expires, it will be classified as "Lost" and the control panel will trigger a "peripheral-loss" fault SUPERVISION event. Detection of a serious condition that jeopardizes the operating capacity of the device TAMPER concerned and thus puts the system at risk. Tamper conditions are detected by tamper switches connected to the system zones, keypads, readers, expansions and control panel. Generally, these events are triggered by system violation such as unauthorized opening of a keypad cover. These are calls sent to programmed contact numbers when specific events start and end **TELEPHONE ACTIONS** (restoral). This is a service provided by the installer company. The installer company requires the user's collaboration and authorization before opening a teleservice session and working on the TELESERVICE system via telephone line.

SMARTLIVING	inim	Installatio	n and Programming Manual
<ul> <li>A screw terminal for the connection of zones (designaling devices).</li> <li>The terminals (with some exceptions) of the contible configured as: <ul> <li>Input zone</li> <li>Double zone (ZONE DOUBLING)</li> <li>Output</li> <li>Supervised output</li> <li>Unused terminal</li> </ul> </li> <li>A zone with this attribute cannot generate allowed as a structure of the contiguence of the context of the cont</li></ul>	etection devices) and/or outputs rol panel, keypads and expansion arms (activate audible and visu	(command/ n boards can ual signaling	TERMINAL TEST ZONE
devices). However, any alarm events that occur v The installer usually assigns the "test" attribute v to avoid false alarms. In this way, the installer simply referring to the events log.	vill be saved to the events memo vhen the system is undergoing te can see if a zone is operating	ry. ests, in order properly by	
<ul> <li>A logical entity for automatic time-management of SmartLiving control panels provide 10 timers.</li> <li>Each timer can be programmed to manage: <ul> <li>An activation time (ON Time) and a deactivative week and specific dates.</li> <li>5 timer-slot exceptions. Each "exception" referent which can be programmed with an ON and OF The timers can be used for different purposes:</li> <li>If a timer is associated with a partition, the automatically in accordance with the On/Off s</li> <li>If a timer is associated with a code, the latter when the timer is On.</li> </ul> </li> <li>If a timer is on.</li> <li>If the "Timer xxx" event is assigned to an or connected device in accordance with the On/Off. No matter how they are employed, the timers mutation of the timers mutation.</li> </ul>	of programmed peripherals or ele- ation time (OFF Time) on preset ers to a specific interval of one of F Time. e system will arm and disarm ettings of the timer. er will be allowed to access the will be allowed to access the syste butput, the latter will activate/de off settings of the timer. ust always be enabled by the use	ments. days of the more days, the partition system only m only when eactivate the r.	TIMER
Transceiver-equipped devices In two-way wireless systems, all the devices a wireless systems, the main unit is equipped wit devices are equipped with transmitters.	are equipped with transceivers. h a receiver module whereas th	In one-way e peripheral	TRANSCEIVER
A wireless-technology system in which the contr transmitter module and a receiver module. These systems are more reliable than one-way v is validated by a reverse transmission.	ol panel and its devices are equ vireless systems as each device	ipped with a transmission	TWO-WAY WIRELESS SYSTEM
A zone with this attribute cannot be bypassed, ma control panel). This attribute is usually assigned to high-security	anually (by the user) or automati zones.	cally (by the	UNBYPASSABLE ZONE
If a terminal is configured as an "unused" tern configuration (total sum of control panel terminal This ensures that any "Unused" terminals on t available for use.	ninal, it will not be included in s). the expansion boards and keyp	the terminal ads are still	UNUSED TERMINAL
<ul> <li>Each code is programmed with:</li> <li>A 4, 5 or 6 digit PIN which allows access the s</li> <li>A label which identifies the user (usually the u</li> <li>The group of partitions it controls (arms, disa</li> <li>A group of pre-set parameters which allow accordance with its authorized access level (for the events log but not to change the date and /li></ul>	system. Iser's name). rms, etc.). w the operator to work on the or example, a code can be enable time).	e system in ed to consult	USER CODE
List of functions available to the user after valid of	code entry at a keypad.		USER MENU
This is a delayed entry and exit zone and does during the running entry/exit time, however, the	not generate alarms when viol violation will be signaled on the l	ation occurs keypad.	VIEWABLE DELAYED ZONE
If the system is equipped with a SmartLogos301 system configuration will allow users to record r deleted as required.	M voice board, each JOY/MAX ke nemos. Memos can be recorded	ypad, in the , played and	VOICE MEMO
An intrusion control system whose devices (deta the control panel over radio waves. Usually, only the control panel of wireless-syste wireless devices are battery powered. The batte layout and operational capacity of these systems.	ectors, keypads, keyfobs) comm ems is mains powered (220Va.c ry life is of utmost importance i	unicate with ) while, the n the design	WIRELESS
An electrical input point used for the manager intrusion detection device. The terminal the zon "input" zone. Zones are usually connected to a single device wired and configured) to connect more than one one device it is impossible to identify the alarm-t	nent/supervision of signals com le is connected to must be confi , however, it is possible (if the device. If a zone is connected t rigger device in the event of an a	ing from an gured as an zone is duly o more than larm.	ZONE



The conditions which generate a zone alarm, on the understanding that the zone belongs to several partitions, are as follows: the zone must detect violation and all the partitions it belongs to must be armed.

Zone alarms provoke activation of audible and visual signaling devices (sounders, flashers, reader/keypad LEDs, etc.) and generate voice and digital calls. Zone alarm events automatically generate partition alarm events on all the partitions the zone belongs to.

- A violated zone will not generate alarms if:
- it belongs to several partitions and one of them is disarmed
- it is bypassed (disabled)
- it is in test status (the event will be saved to the events log only)
- it an "interior" zone, and one of the partitions it belongs to is armed in Stay or Instant mode

A bypassed zone (disabled zone) cannot generate alarms. Each zone can be bypassed/ unbypassed manually by the system users, or automatically by the control panel. Automatic bypass operations can take place only when the zone is configured as "Auto-bypassable" and the conditions that regulate auto-bypass operations are in effect (refer to Zone Attributes – Auto-bypassable).

Zone deactivation is useful when detectors are not working properly and you wish to avoid false alarms. Under normal circumstances, bypassed (disabled) zones can still generate tamper events. If you do not wish this to occur you must set the "Bypass Tamper" option on the control panel.

A bypassed zone can be considered "Off".

ZONE BYPASS/ UNBYPASS



# SHORTCUTS AT DEFAULT

n.	ICON	description	function	parameter
1	Þ	Arm/Disarm	Applies a pre-set scenario	Scenario
2	*	Stop alarms	Immediately deactivates the outputs relative to zone/partition alarm and tamper events and system tamper events.	
3		Clear call queue	Cancels the call queue and stops ongoing calls (if any).	
4	X	Delete memory	Carries out a "Stop alarms" operation and, at the same time, deletes memory of system and partition alarm and tamper events.	
5	ģ	Activate outputs	Activates one of the programmed outputs.	Output
6	•	Deactiv. outputs	Deactivates one of the programmed outputs.	Output
7	t®	Overtime	Delays auto-arming time of partitions by 30 minutes.	
8	۳X ۳	Teleservice req.	Sends a call to the Installer company number (Teleservice number).	
9		Voice menu	Plays a recorded voice message which announces the shortcuts assigned to the number keys.	User code
10	Ð	Listen-in	Allows eavesdropping over-the-phone by means of a microphone located on suitably placed keypad.	Keypad
11		Intercom Call	Accesses the User Menu section: Voice functions/ Intercom Call	
12		Arm/disarm menu	Accesses the User Menu section: Arm/Disarm	
13	(1)) []]]	Alarm menu	Accesses the User Menu section: Manage alarms	
14		Voice func. menu	Accesses the User Menu section: Voice functions	
15		Activations menu	Accesses the User Menu section: Activations	
16	ĒŶ	View menu	Accesses the User Menu section: View	
17	8.	Arming status	Provides voice information regarding the armed/ disarmed status of the partitions.	
18		Keypad sett.menu	Accesses the User Menu section:Keypad Keypad	

n.	ICON	DESCRIPTION	function			
19		ZoneBypass menu	Accesses the User Menu section: Activations/Zones			
20	Ŵ	Voice memo	Accesses the User Menu section: Voice functions			
21		Output control	Accesses the User Menu section: Outputs ON/OFF			
22	- <b>8</b>	Enab.answerpho ne	Accesses the User Menu section: Activations/ Answerphone			
23	₽╏	Enab.teleservice	Accesses the User Menu section: Activations/ Teleservice			
24	□∎ 123	Enable codes	Accesses the User Menu section: Activations/Codes			
25	₿₿	Enable keys	Accesses the User Menu section: Activations/Keys			
26		Enable timers	Accesses the User Menu section: Activations/Timers			
27	<b>!!</b>	Enab. auto-arm	Accesses the User Menu section: Activations/Auto- arm			
28		View events log	Accesses the User Menu section: View/Events log			
29	Ŷ®	View alarm log	Accesses the User Menu section: View/Alarms log			
30	ŶΔ	View faults log	Accesses the User Menu section: View/Faults log			
31	Ŷ	View arm ops log	Accesses the User Menu section: View/Arm/Disarm ops.			
32	Ŷ₽	ViewSystemStatu s	Accesses the User Menu section: View/System Voltage			
33	Ŷ	View zone status	Accesses the User Menu section: View/Zone status			
34	**3	Change PIN	Accesses the User Menu section: Change PIN			
35	$\odot$	Time/Date	Accesses the User Menu section: Time/Date			
36		View faults	Accesses the User Menu section: View/Faults			
37		Thermostat	Accesses the User Menu section:Thermostat			

# Appendix C

# **AVAILABLE ICONS**

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

n.	ICON	description		
38	党	Disarm		
39	企	Instant mode		
40	企	Stay Arm		
41	<b>t</b>	Away mode		
4	CB	Timer control and key/code lockout		
43	Д Ц	Open Gate		
44		Close Gate		
45	あ	Turn Off sprinkler		
46	۲.	Turn On sprinkler		
47		Telephone Menu		
48	園	Heating		
49		Empty Icon		
50		Empty Icon		



# **VOICE MESSAGES**

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

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

Tuno	Numbor		Message (in se	duration conds)	<b>T</b>	N		Message duration (in seconds)	
туре	Number	Delault message	High quality	Average quality	туре	Number	Default message	High quality	Average quality
Available			169	271	-	211	View menu	2.5	4
user-	1 - 100	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(for all 100	(for all 100		212	System status	2.5	4
messages	-		messages)	messages)		213	Keypad settings menu	2.5	4
available	101 - 165	V				214	Zone activations menu	2.5	4
	166	Scenario 1	2.5	4		215	Voice memo	2.5	4
	167	Scenario 2	2.5	4		216	Output management	2 F	4
	168	Scenario 3	2.5	4		210	menu	2.5	4
	169 170	Scenario 4 Scenario 5	2.5 2.5	4		217	Enable/Disable answerphone	2.5	4
	171	Scenario 6	2.5	4		218	Enable teleservice	2.5	4
	172	Scenario 7	2.5	4		219	Enable codes	2.5	4
	173	Scenario 8	2.5	4	Shortcuts	220	Enable keys	2.5	4
	174	Scenario 9	2.5	4	onorceuto	221	Enable timers	2.5	4
	175	Scenario 10	2.5	4		222	Enable auto-arming	2.5	4
	176	Scenario 11	2.5	4		223	View events log	2.5	4
	177	Scenario 12	2.5	4		224	View alarms log	2.5	4
	178	Scenario 13	2.5	4		225	View faults log	2.5	4
	179	Scenario 14	2.5	4		226	View arm/disarm	2.5	
Armina	180	Scenario 15	2.5	4		226	operations	2.5	4
scenarios	181	Scenario 16	2.5	4	4 4 2		View battery status	2.5	4
coontailloc	182	Scenario 17	2.5	4			View zone status	2.5	4
	183	Scenario 18	2.5	4		229	Change PIN	2.5	4
	184	Scenario 19	2.5	4		230	Date/Time settings	2.5	4
	185	Scenario 20	2.5	4		231	Faults list	2.5	4
	186	Scenario 21	2.5	4	None	222 240	V		
	187	Scenario 22	2.5	4	available	232 - 240			
	188	Scenario 23	2.5	4		241	Restoral	1.25	2
	189	Scenario 24	2.5	4		242	То	0.63	1
	190	Scenario 25	2.5	4		243	Press	1.25	2
	191	Scenario 26	2.5	4		244	Location	6.25	10
	192	Scenario 27	2.5	4		245	Zero	2.5	4
	192	Scenario 28	2.5	4		246	One	2.5	4
	194	Scenario 20	2.5	4	Generic	247	Two	2.5	4
	195	Scenario 30	2.5	4	messages	248	Three	2.5	4
	196	Armed in Away mode	2.5	4	_	249	Four	2.5	4
	197	Ston alarm	2.5	4		250	Five	2.5	4
	198	Stop call queue	2.5	4		251	Six	2.5	4
	199	Delete memory	2.5	4		252	Seven	2.5	4
	200	Activate output	2.5	4		253	Eight	2.5	4
	201	Deactivate output	2.5	4		254	Nine	2.5	4
	202	Overtime request	2.5	4		255	Away mode	3.13	5
	202	Request maintenance	2.5	4	Partition	256	Armed in Stay mode	3.13	5
Shortcuts	203	StartVoiceNotifier	2.5	4	status	257	Instant mode	3.13	5
	201	Listen-in	2.5	4		258	Disarm	3.13	5
	205	Intercom Call	2.5	г 4	L			~	
	200	Access arm/disarm	2.5	r					
	207	menu	2.5	4					
	208	alarms menu	2.5	4					
	209	Voice menu	2.5	4					
1	210	Activations menu	2.5	4					

#### Installation and Programming Manual



#### SMARTLIVING

		Message duration (in seconds)			
Туре	Number	Default message	High quality	Average quality	
Menu	259	To go back to	3.13	5	
Activation /	260	To activate	1.88	3	
Deactivation	261	To deactivate	1.88	3	
Type-in user-	262	Type-in user-code	2.5	4	
code PIN	202	PIN followed by #	2.5	+	
Outrouto	263	Relay	2.5	4	
Outputs	264	Output 1	2.5	4	
None	205		2.5		
available	266 - 270	, v			
	271	Zone 1	3.13	5	
	272	Zone 2	3.13	5	
	273	Zone 3	3.13	5	
	274	Zone 4	3.13	5	
	275	Zone 6	3.13	5	
	277	Zone 7	3.13	5	
	278	Zone 8	3.13	5	
	279	Zone 9	3.13	5	
	280	Zone 10	3.13	5	
	281	Zone 11	3.13	5	
	202	Zone 12 Zone 13	3 13	5	
	284	Zone 13	3,13	5	
	285	Zone 15	3.13	5	
	286	Zone 16	3.13	5	
	287	Zone 17	3.13	5	
	288	Zone 18	3.13	5	
	289	Zone 19	3.13	5	
	290	Zone 21	3.13	5	
	292	Zone 22	3.13	5	
	293	Zone 23	3.13	5	
	294	Zone 24	3.13	5	
	295	Zone 25	3.13	5	
	296	Zone 26	3.13	5	
	297	Zone 27	3.13	5	
	290	Zone 29	3.13	5	
Zone	300	Zone 30	3.13	5	
Terminal	301	Zone 31	3.13	5	
	302	Zone 32	3.13	5	
	303	Zone 33	3.13	5	
	304	Zone 34	3.13	5	
	305	Zone 35	3.13	5	
	307	Zone 30 Zone 37	3.13	5	
	308	Zone 38	3.13	5	
	309	Zone 39	3.13	5	
	310	Zone 40	3.13	5	
	311	Zone 41	3.13	5	
	312	Z0118 42	3.13	5	
	314	Zone 44	3.13	5	
	315	Zone 45	3.13	5	
	316	Zone 46	3.13	5	
	317	Zone 47	3.13	5	
	318	Zone 48	3.13	5	
	319	Zone 49	3.13	5	
	320	Zone 50	3 13	5	
	322	Zone 52	3,13	5	
	323	Zone 53	3.13	5	
	324	Zone 54	3.13	5	
	325	Zone 55	3.13	5	
	326	Zone 56	3.13	5	
	32/	Zone 5/	3.13	5	
	320	ZUIIE 50 Zone 50	3.13	5 5	
	330	Zone 59	3.13	5	
	555	Lone oo	5.15	5	

			Message duration (in seconds)			
Туре	Number	Default message	High	Average		
			quality	quality		
	331	Zone 61	3.13	5		
	332	Zone 62	3.13	5		
	333	Zone 63	3.13	5		
	334	Zone 64	3.13	5		
	335	Zone 65	3.13	5		
	330	Z011e 66 Zono 67	3.13	5		
	338	Zone 68	3.13	5		
	339	Zone 69	3.13	5		
	340	Zone 70	3.13	5		
	341	Zone 71	3.13	5		
	342	Zone 72	3.13	5		
	343	Zone 73	3.13	5		
	344	Zone 74	3.13	5		
	345	Zone 75	3.13	5		
	346	Zone 76	3.13	5		
	347	Zone 77	3.13	5		
	348	Zone 78	3.13	5		
7	349	Zone 79	3.13	5		
Zone	350	Zone 80	3.13	5		
Terminal	351	Zone 81	3.13	5		
	352	Zone 82	2.12	5 F		
	353	Zone 84	3.13	5		
	355	Zone 85	3.13	5		
	356	Zone 86	3.13	5		
	357	Zone 87	3.13	5		
	358	Zone 88	3.13	5		
	359	Zone 89	3.13	5		
	360	Zone 90	3.13	5		
	361	Zone 91	3.13	5		
	362	Zone 92	3.13	5		
	363	Zone 93	3.13	5		
	364	Zone 94	3.13	5		
	365	Zone 95	3.13	5		
	366	Zone 96	3.13	5		
	367	Zone 97	3.13	5		
	368	Zone 98	3.13	5		
	270	Zone 100	2.12	5 F		
	370	Partition 1	3.13	5		
	372	Partition 2	3.13	5		
	373	Partition 3	3.13	5		
	374	Partition 4	3.13	5		
	375	Partition 5	3.13	5		
	376	Partition 6	3.13	5		
	377	Partition 7	3.13	5		
Partition	378	Partition 8	3.13	5		
	379	Partition 9	3.13	5		
	380	Partition 10	3.13	5		
	381	Partition 11	3.13	5		
	382	Partition 12	3.13	5		
	383	Partition 13	3.13	5		
	304	Partition 15	3.13	5		
	386		2 5	4		
	387	Code 2	2.5	-r 		
	388	Code 3	2.5	4		
	389	Code 4	2.5	4		
Codes	390	Code 5	2.5	4		
Codes	391	Code 6	2.5	4		
	392	Code 7	2.5	4		
	393	Code 8	2.5	4		
	394	Code 9	2.5	4		
	395	Code 10	2.5	4		

Г

<b>T</b>	Number	Default	Message duration (in seconds)			
туре	Number	Default message	High quality	Average quality		
	396	Key 1	2.5	4		
	397	Key 2	2.5	4		
	398	Key 3	2.5	4		
	399	Key 4	2.5	4		
Kovo	400	Key 5	2.5	4		
Reys	401	Key 6	2.5	4		
	402	Key 7	2.5	4		
	403	Key 8	2.5	4		
	404	Key 9	2.5	4		
	405	Key 10	2.5	4		
	406	Keypad 1	2.5	4		
	407	Keypad 2	2.5	4		
Keypads	408	Keypad 3	2.5	4		
	409	Keypad 4	2.5	4		
	410	Keypad 5	2.5	4		
	411	Reader 1	2.5	4		
	412	Reader 2	2.5	4		
Readers	413	Reader 3	2.5	4		
	414	Reader 4	2.5	4		
	415	Reader 5	2.5	4		
Function	416	Fire	2.5	4		
keys	417	Ambulance	2.5	4		
Emergency	418	Police	2.5	4		
None available	419 - 425	v				
	426	Zone alarm	2.5	4		
	427	Terminal tamper	2.5	4		
	428	Partition alarm	2.5	4		
	429	Stay alarm	2.5	4		
	430	Partition tamper	2.5	4		
	431	Zone bypass	2.5	4		
	432	Partition not-ready- to-arm	2.5	4		
	433	Away arm request	2.5	4		
	434	Stay arm request	2.5	4		
	435	Armed in Away mode	2.5	4		
	436	Armed in Stay mode	2.5	4		
	437	Reset partition	2.5	4		
Event type	438	Partition armed, leave partition	2.5	4		
	439	Disarm partition	2.5	4		
	440	Pre-arm alert	2.5	4		
	441	Overtime request	2.5	4		
	442	Welcome	2.5	4		
	443	Valid user-code	2.5	4		
	444	Valid key	2.5	4		
	445	Valid user-code at keypad	2.5	4		
	446	Valid key at reader	2.5	4		
	447	Valid user-code on partition	2.5	4		
	448	Valid key on partition	2.5	4		
	449	Failed call	2.5	4		
	450	Timer event	2.5	4		
			-			

Туре	Number	Default message	Message duration (in seconds)			
туре	Number	Delault message	High quality	Average quality		
	451	Emergency	2.5	4		
	452	Open-panel tamper	2.5	4		
	453	Dislodged-panel tamper	2.5	4		
	454	Zone fuse fault	2.5	4		
	455	I-BUS fuse fault	2.5	4		
	456	Battery fault	2.5	4		
	457	Mains failure	2.5	4		
	458	Expansion tamper	2.5	4		
	459	Keypad Tamper	2.5	4		
	460	Reader Tamper	2.5	4		
	461	Expansion Loss	2.5	4		
	462	Keypad Loss	2.5	4		
	463	Reader Loss	2.5	4		
Evont type	464	Jamming	2.5	4		
Lvent type	465	Low battery wireless zone	2.5	4		
	466	Wireless zone loss	2.5	4		
	467	Valid Installer code	2.5	4		
	468	Invalid code	2.5	4		
	469	False key	2.5	4		
	470	Telephone line down	2.5	4		
	471	Periodic test event	2.5	4		
	472	Hard reset	2.5	4		
	473	Call queue full	2.5	4		
	474	Successful call	2.5	4		
	475	Initialize programming	2.5	4		
	476	Ongoing call	2.5	4		
	477	Output fault	2.5	4		
None available	478 - 485	V				
Voice memo slots	486 - 500	V	37.5 (for all 15 messages)	60 (for all 15 messages)		

# Appendix E

# SCREW TERMINALS

All the terminals on the SmartLiving control panel and its peripherals (expansions and keypads) are identified by distinctive numbers transcribed in the "CCC" programming field of the "CONTACT-ID" protocol, in order to allow the precise localization of events related to zones or terminals.

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

n.	terminal	n.	terminal	n.	terminal	1	n.	terminal	n.	terminal location
	location		location		location			location		
1	Panel T1	51	Evp 9 T1	101	Exp 19 T1	1	151	Exp 29 T1	201	Exp 39 T1
2	Panel T2	52	Exp. 9 T2	101	Exp. 19 T1 Exp. 19 T2		152	Exp. 29 T1 Exp. 29 T2	201	Exp. 39 T2
3	Panel T3	53	Exp. 9 T3	102	Exp. 19 T2		153	Exp. 29 T2	202	Exp. 39 T2
4	Panel T4	54	Exp. 9 T4	104	Exp. 19 T4		154	Exp. 29 T4	204	Exp. 39 T4
5	Panel T5	55	Exp. 9 T5	105	Exp. 19 T5		155	Exp. 29 T5	205	Exp. 39 T5
6	Panel T6	56	Exp. 10 T1	106	Exp. 20 T1		156	Exp. 30 T1	206	Exp. 40 T1
7	Panel T7	57	Exp. 10 T2	107	Exp. 20 T2		157	Exp. 30 T2	207	Exp. 40 T2
8	Panel T8	58	Exp. 10 T3	108	Exp. 20 T3		158	Exp. 30 T3	208	Exp. 40 T3
9	Panel T9	59	Exp. 10 T4	109	Exp. 20 T4		159	Exp. 30 T4	209	Exp. 40 T4
10	Panel T10	60	Exp. 10 T5	110	Exp. 20 T5		160	Exp. 30 T5	210	Exp. 40 T5
11	Exp. 1 T1	61	Exp. 11 T1	111	Exp. 21 T1		161	Exp. 31 T1	211	Keyp. 1 T1
12	Exp. 1 12	62	Exp. 11 12	112	Exp. 21 12		162	Exp. 31 12	212	Keyp. 1 12
13	EXP. 1 13	64	Exp. 11 13	113	Exp. 21 13	-	163	Exp. 31 T3	213	Keyp. 2 T1
14	Exp. 1 14	65	Exp. 11 14	114	EXP. 21 14 Evp. 21 T5	-	165	EXP. 31 14 Evp. 31 T5	214	Keyp. 2 TZ
15	Exp. 1 15	66	Exp. 11 T3	115	Exp. 21 T3		166	Exp. 31 T3	215	Keyp. 3 T2
17	Exp. 2 T2	67	Exp. 12 T1 Exp. 12 T2	117	Exp. 22 T1 Exp. 22 T2		167	Exp. 32 T1 Exp. 32 T2	210	Keyp. 5 T2
18	Exp. 2 T3	68	Exp. 12 T2 Exp. 12 T3	118	Exp. 22 T2 Exp. 22 T3	-	168	Exp. 32 T2 Exp. 32 T3	217	Keyp. 4 T2
19	Exp. 2 T4	69	Exp. 12 T4	119	Exp. 22 T4		169	Exp. 32 T4	219	Kevp. 5 T1
20	Exp. 2 T5	70	Exp. 12 T5	120	Exp. 22 T5		170	Exp. 32 T5	220	Kevp. 5 T2
21	Exp. 3 T1	71	Exp. 13 T1	121	Exp. 23 T1		171	Exp. 33 T1	221	Keyp. 6 T1
22	Exp. 3 T2	72	Exp. 13 T2	122	Exp. 23 T2		172	Exp. 33 T2	222	Keyp. 6 T2
23	Exp. 3 T3	73	Exp. 13 T3	123	Exp. 23 T3		173	Exp. 33 T3	223	Keyp. 7 T1
24	Exp. 3 T4	74	Exp. 13 T4	124	Exp. 23 T4		174	Exp. 33 T4	224	Keyp. 7 T2
25	Exp. 3 T5	75	Exp. 13 T5	125	Exp. 23 T5		175	Exp. 33 T5	225	Keyp. 8 T1
26	Exp. 4 T1	76	Exp. 14 T1	126	Exp. 24 T1		176	Exp. 34 T1	226	Keyp. 8 T2
27	Exp. 4 T2	77	Exp. 14 T2	127	Exp. 24 T2		177	Exp. 34 T2	227	Keyp. 9 T1
28	Exp. 4 13	/8	Exp. 14 13	128	Exp. 24 13	-	178	Exp. 34 13	228	Keyp. 9 12
29	EXP. 4 14	/9	Exp. 14 14	129	Exp. 24 14	-	1/9	EXP. 34 14	229	Keyp. 10 T1
30	Exp. 4 15	00 Q1	Exp. 14 15 Exp. 15 T1	130	EXP. 24 15 Exp. 25 T1		100	Exp. 34 15	230	Keyp. 10 TZ
32	Exp. 5 T2	82	Exp. 15 T1 Exp. 15 T2	132	Exp. 25 T1 Exp. 25 T2		182	Exp. 35 T1 Evp. 35 T2	231	Keyp. 11 T1 Keyp. 11 T2
33	Exp. 5 T3	83	Exp. 15 T2 Exp. 15 T3	133	Exp. 25 T2 Exp. 25 T3		183	Exp. 35 T2 Exp. 35 T3	232	Keyp. 11 12 Keyp. 12 T1
34	Exp. 5 T4	84	Exp. 15 T4	134	Exp. 25 T4		184	Exp. 35 T4	234	Keyp. 12 T2
35	Exp. 5 T5	85	Exp. 15 T5	135	Exp. 25 T5		185	Exp. 35 T5	235	Keyp. 13 T1
36	Exp. 6 T1	86	Exp. 16 T1	136	Exp. 26 T1		186	Exp. 36 T1	236	Keyp. 13 T2
37	Exp. 6 T2	87	Exp. 16 T2	137	Exp. 26 T2	1	187	Exp. 36 T2	237	Keyp. 14 T1
38	Exp. 6 T3	88	Exp. 16 T3	138	Exp. 26 T3		188	Exp. 36 T3	238	Keyp. 14 T2
39	Exp. 6 T4	89	Exp. 16 T4	139	Exp. 26 T4		189	Exp. 36 T4	239	Keyp. 15 T1
40	Exp. 6 T5	90	Exp. 16 T5	140	Exp. 26 T5		190	Exp. 36 T5	240	Keyp. 15 T2
41	Exp. 7 T1	91	Exp. 17 T1	141	Exp. 27 T1		191	Exp. 37 T1		
4	Exp. 7 T2	92	Exp. 17 T2	142	Exp. 27 T2		192	Exp. 37 T2		
43	Exp. 7 T3	93	Exp. 17 T3	143	Exp. 27 T3		193	Exp. 37 T3		
44	Exp. 7 T4	94	Exp. 17 T4	144	Exp. 27 T4		194	Exp. 37 T4		
45	Exp. 7 T5	95	Exp. 17 T5	145	Exp. 27 T5		195	Exp. 37 T5		
46	Exp. 8 T1	96	Exp. 18 T1	146	Exp. 28 T1	1	196	Exp. 38 T1		
47	Exp. 8 T2	97	Exp. 18 T2	147	Exp. 28 T2	1	197	Exp. 38 T2		
48	Exp. 8 T3	98	Exp. 18 T3	148	Exp. 28 T3	1	198	Exp. 38 T3		
49	Exp. 8 T4	99	Exp. 18 T4	149	Exp. 28 T4	1	199	Exp. 38 T4		
50	Exp. 8 T5	100	Exp. 18 T5	150	Exp. 28 T5	1	200	Exp. 38 T5		

# **Appendix F**

# COMBINATION OF OUTPUTS TRIGGERED BY EVENTS

This appendix shows the event-generated actions (activations/deactivations) of the outputs programmed in the "Outputs" and "Other outputs" sections combined with the "SirenSound types" of the sounderflashers on the BUS.

#### Table 37: Output typology

Symbol/Initials	Description			
ТМ	Output on terminal/Relay/OC1/OC2 - monostable			
ТВ	Output on terminal/Relay/OC1/OC2 - bistable			
SM	Sounderflasher output with limited flasher time			
SB	Sounderflasher output with unlimited flasher time			

#### Table 38: Functioning and deactivation of the outputs

Symbol/Initials	Description
А	These outputs will deactivate if a Stop alarm, Reset partition or Disarm operation is carried out while the monostable time of the main output is running.
В	These outputs will deactivate only when the event clears after expiry of the monostable time of the main output.
с	<ul> <li>These outputs, due to the continuous flasher function, will not deactivate automatically.</li> <li>In order to deactivate the SB flashers of the sounderflasher after expiry of the monostable time applied to the main output, you must: <ul> <li>trigger an event which applies a Stop pattern to the SB flashers</li> <li>reset the partition</li> </ul> </li> </ul>
D	These outputs will deactivate only when the event clears.
E	These outputs will deactivate if, when an event is active, a Stop alarm operation, reset or disarm partition command operation is carried out.
F	<ul> <li>These outputs, due to the continuous flasher function, will not deactivate automatically. In order to deactivate the SB flashers of the device on termination of the event, you must:</li> <li>trigger an event which applies a Stop pattern to the SB flashers</li> <li>reset the partition</li> </ul>
G	These outputs will deactivate when the respective monostable time expires

Table 39:	Output	combin	ations
-----------	--------	--------	--------

Event evenue	Principal output				Other outputs			
Event groups	ТМ	TB	SM	SB	ТМ	ТВ	SM	SB
Zone alarm	A G				AG	AB	AG	AC
Terminal tamper		DE			EG	DG	EG	F
Partition alarm			AG		AG	AB	A G	AC
Partition tamper				F	EG	DG	EG	F
Control panel open Dislodged panel	A G				A G	A D	A G	A C
Expansion tamper/loss Keypad tamper/loss		DE			EG	D G	EG	С
Sounderflasher tamper/loss Jamming			A G		A G	A B	A G	A C
Wireless zone loss Telephone line down				F	EG	DG	EG	С
	G				G	В	G	С
other events		D			G	D	G	F
			G		G	В	G	С
				F	G	С	G	С

# COMPLIANCY

In order to guarantee CEI 79-2 compliancy, you must adhere to the following guidelines:

- nBy/X readers must be equipped with devices which protect them against the forced-opening and dislodgement of their casings from their locations, in compliance with Level 2, as indicated in paragraph *3-2-5 Installing nBy/S readers*.
- JOY, nCode and Concept keypads must be equipped with enabled tamperprotection devices, as indicated in paragraph *3-3-1* Addressing the keypads.
- FLEX5/U expansion boards must be either mounted inside the metal enclosure of the 1050L or 10100L control panel, or equipped with devices which protect them against the forced-opening of their casings and dislodgement from their locations, in compliance with Performance level 2.
- The lines relating to the intrusion-detection zones must be configured as 'Double balancing' with double EOL resistors, or as Single balancing with single EOL resistor. They must also be equipped with devices which protect them against the forced-opening of their casings.
- Terminal tamper, peripheral tamper and control-panel tamper events must trigger audible signals (sounder signals) for a period of not less than 3 minutes.

In order to guarantee EN50131 compliancy of devices, you must adhere to the following guidelines:

- Adhere to the previously mentioned guidelines relating to CEI 79-2 compliancy.
- In the "Panel options" section enable:
  - •• Keypad lockout
  - •• OpenZonesArmLock
  - •• NoUserTamp.reset
  - •• 50131ReaderLedOFF
  - •• 50131StatHidden
  - •• 50131IconsHidden
- In the section "Other parameters FaultForNotReady", enable the following options:
  - Zone fuse fault
  - •• IBUS fuse fault
  - Low battery
  - •• Mains failure
  - •• Tel. line down
  - Jamming
  - •• Low battery WLS
  - •• WLS zone loss
  - •• LossTamp.ongoing



# **ORDER CODES**

inim

Please quote the following order codes when ordering items from the INIM Electronics product range:

Access Codes	Product description
Air2-BS100	Wireless transceiver
Air2-IRF100	Wireless PIR with 12m coverage
Air2-KF100	4 button remote-control keyfob
Air2-MC100	Wireless magnetic contact with 2 inputs/outputs
AUXREL32	Power distribution relay-board for SmartLiving 1050L and 10100L
Concept/G	Touch keypad with backlit graphic display and keys equipped with input/output terminal
DCMIINE0SLIVINGE	SmartLiving Installation and Programming Manual
DCMUINE0SLIVINGE	SmartLiving User's Manual
Flex5/P	Two-way Input/Output expansion board in tamper-protected plastic enclosure
Flex5/U	Two-way Input/Output expansion board transparent plastic enclosure with terminal on view
IB100/A	BUS isolator with data and power regeneration and tamper protection
IB100/RP	BUS isolator with data regeneration and tamper protection
IB100/RU	BUS isolator with data regeneration and on-view terminals
Ivy	Self-powered sounderflasher - suitable for outdoor installation
Іvу-В	Self-powered sounderflasher with BUS connection capacity - suitable for outdoor installation
Ivy-BF	Self-powered sounderflasher with BUS connection capacity and foam-tamper protection - suitable for outdoor installation
Ivy-BFM	Self-powered sounderflasher with BUS connection capacity and foam-tamper in metal-look (chrome) enclosure - suitable for outdoor installation
Ivy-BM	Self-powered sounderflasher with BUS connection capacity in metal-look (chrome) enclosure - suitable for outdoor installation
Ivy-F	Self-powered sounderflasher with foam-tamper protection - suitable for outdoor installation
Ivy-FM	Self-powered sounderflasher with foam-tamper protection in metal-look (chrome) enclosure - suitable for outdoor installation
Ivy-M	Self-powered sounderflasher in metal-look (chrome) enclosure - suitable for outdoor installation
Joy/GR	Keypad with backlit graphic display with two input/output terminals
Joy/MAX	Keypad with backlit graphic display with two input/output terminals and built-in proximity reader, microphone, speaker and temperature sensor
LINK232F9F9	RS232 cable link to PC and/or INIM devices
LINKUSABAB	USB cable link to PC and/or INIM devices
LINKIBUS	Temporary cable link for I-BUS
nBy/S	Wall-mount proximity reader
nBy/X	Flush-mount proximity reader
nCard	Card for nBy proximity readers
nCode/G	Keypad with backlit graphic display with one input/output terminal
nKey	Tag for nBy proximity readers
ProbeTH	I hermal probe for battery-charge optimization
SmartLAN/G	Ethernet interface for programming and internet operations using TCP-IP and UDP protocols
SmartLAN/SI	Ethernet interface for programming via internet using TCP-IP and UDP protocols
SmartLeague	Programming and management software for INIM devices
SmartLink/GWB	SmartLink/G Kil for SmartLiving 1050L and 10100L
SmartLiving 505	housing for 1 battery @7Ah
SmartLiving515	Intrusion control panel: manages 5 to 10 terminals, 5 partitions, switching power supply @ 1.2A, comes in metal enclosure with housing for 1 battery @7Ah
SmartLiving 1050	Intrusion control panel: manages 10 to 50 terminals, 10 partitions, switching power supply @3A, comes in metal enclosure with housing for 1 battery @7Ah
SmartLiving1050L	Intrusion control panel: manages 10 to 50 terminals, 10 partitions, switching power supply @3A, comes in metal enclosure with housing for 1 battery @17Ah
SmartLiving10100L	Intrusion control panel: manages 10 to 100 terminals, 15 partitions, switching power supply @5A, optional TCP/IP connectivity, comes in metal enclosure with housing for 1 battery @17Ah
SmartLogos30M	Voice board (for SmartLiving)
SmartLook	SmartLook is a centralized-control software program for INIM's fire detection and intrusion control systems
SmartModem100	Remote programming modem
SPS12040	Switching power supply/battery charger in enclosure - 3A, 12V
SPS12100	Switching power supply/battery charger in enclosure - 5A, 12V
TamperNO	Dislodgement-tamper device for SmartLiving control panels

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### Notes





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