

INSTALLATION MANUAL



Warranty

INIM Electronics s.r.l. warrants that this product shall be free of defects in material and workmanship for a period of 24 months from the date of production. In consideration of the fact that INIM Electronics s.r.l. does not install directly the products here indicated, and due to the possibility they may be used with other products not manufactured by INIM Electronics, INIM Electronics cannot guarantee the performance of the security installation. Seller obligation and liability under this warranty are expressly limited to repairing or replacing, at seller's option, any product not meeting its stated specifications. In no case can INIM Electronics s.r.l. be held responsible or liable by the buyer or any other person for any loss or damage, direct or indirect, consequential or incidental.

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

- Damage arising from improper use 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 herein will void this warranty. For further details regarding this warranty contact the authorized dealer.

Limited Warranty

INIM Electronics s.r.l. shall not be liable for any damage caused by improper use of this product.

The installation and use of the products indicated herein must be carried out by authorized persons only. Moreover, the installation procedure must be carried out in full respect of the instructions provided in this manual.

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2 Warranty



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Chapter 1

General information

1.1 Manufacturer's details

Manufacturer: INIM ELECTRONICS S.R.L.

Production plant: Centobuchi, via Dei Lavoratori 10 **Municipality:** 63076, Monteprandone (AP), Italy

Tel.: +39 0735 705007 **Fax:** +39 0735 704912 **E-mail:** info@inim.it **Web:** www.inim.it

The personnel authorized by the manufacturer to repair or replace the parts of this system, hold authorization to work only on devices marketed under the INIM Electronics brand.

1.2 Supplied Documentation

Previdia Micro User's Manual: contains the identification of the parts on the front plate and the end-user operating instructions for use.

Previdia Micro Installation Manual: contains the technical specifications of the system components, the description of the system applications and use, instructions for the installation of the system components with wiring instructions complete with wiring diagrams for the various modules. contains the instructions for system commissioning.

Manual for system configuration, commissioning and maintenance: contains the instructions for system commissioning and the operations to be carried out during commissioning, maintenance and troubleshooting sessions.

Guide to Networking: contains instructions for the connection of Previdia control panels in a Hornet network or via IP, with the description of the system limits and responsibilities relating to network use.

BMS Manual: provides the installer with the guidelines relating to the integration of Previdia control panels with external supervision systems.

The manuals which are not supplied with the apparatus can be ordered, making reference to their respective codes, or downloaded from www.inim.it.

1.3 About this manual

Manual code: DCMIINIOPREVIDIAM

Revision: 1.00

1.3.1 Graphic conventions

Following are the graphic conventions used in this manual.

Conventions	Example	Description
Text in italics	Refer to paragraph 1.3.1 Graphic conventions	Directs you to the title of a chapter, section, paragraph, table or figure in this manual or other published reference.
[Uppercase letter] or [number]	[A] or [1]	Reference relating to a part of the system or video object.

General information 5

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

Attention: The "Attention" prompts indicate that total or partial disregard of the procedure could damage the

device or its peripherals.

EN54: Such indications indicate that the information and instructions refer to European standards.

Cables: Such indications state the types and specifications of the

cables which must be used for the wiring in accordance with the manufacturer's advice or the standard concerned.

1.4 Operator classification - Access Levels

The control panel has 4 distinct access levels:

Level 1: Public level - this is the normal access level of the control panel and is the access level for building inhabitants who are neither authorized to use the system nor instructed in its use.

At this level it is possible to view the information on the display and on the signalling LEDs, as well as to interact using the buttons and the touch screen to scroll through the information. Level 1 allows the following operations only:

- mute buzzer
- test signalling LEDs
- activate alarm signalling when an early-warning process is running

Level 2: Authorized users - this access level is for the system supervisors and is for authorized personnel who are adequately instructed in the use of the system and its functions.

Access requires the use of a key or entry of a valid access code with sufficient access rights. In addition to the operations described for level 1 it is also possible to carry out the following operations:

- mute alarm signalling devices
- rearm the control panel
- · activate alarm signalling devices manually
- disable control panel elements
- place in test status one or more of the system elements
- bypass and activate objects which require this specific level.

The system provides two additional sub-levels of authorized user:

- **Superuser level**, las for the previous one, with the added possibility of registering control panels to their account with the Inim Cloud service
- **Maintenance operator level**, same as the previous level with the added possibility of stopping the valve pulse for those models that support extinction functions

Level 3: Programming - this access level is for specialized technical operators who carry out system configuration, commissioning and maintenance.

Access requires entry of a valid access code with sufficient access rights after inserting a jumper which enables programming. Refer to the manual for system configuration, commissioning and maintenance.

ONLY authorized technicians, appointed by the Manufacturer can, by means of special tools, carry out repair work on the motherboard.

Level 4: only authorized technicians, appointed by the Manufacturer can, by means of special tools, carry out repair work on the motherboard.

1.5 CE Mark

1.5.1 Regulation (EU) No. 305/2011

This product complies with requirements stated by standards listed here below in compliance with Regulation (EU) No. 305/2011.





INIM Electronics s.r.l. Via Dei Lavoratori 10 - Fraz. Centobuchi 63076, Monteprandone (AP) - Italy

0051-CPR-3155

EN 54-2:1997 + A1:2006 EN 54-4:1997 + A1:2002 + A2:2006 EN 54-21:2006 EN 12094-1:2003

PREVIDIA-MLZEG

Control and indicating equipment with power supply equipment, alarm transmission and fault warning routing equipment and electrical automatic control and delay device integrated for fire detection and fire alarm systems installed in buildings and for gas extinguishing systems installed in buildings and part of a complete system.



INIM Electronics s.r.l. Via Dei Lavoratori 10 - Fraz. Centobuchi 63076, Monteprandone (AP) - Italy

0051-CPR-3156

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PREVIDIA-MSZEG

Control and indicating equipment with power supply equipment, alarm transmission and fault warning routing equipment and electrical automatic control and delay device integrated for fire detection and fire alarm systems installed in buildings and for gas extinguishing systems installed in buildings and part of a complete system.

Performance in the event of fire Power supply performance Response delay (response time in the event of fire) Pransmission performance Operating reliability Durability of operating reliability: Thermal resistance Pithumidity resistance Humidity resistance Electrical stability Options provided in accordance with EN54-2 7.8 Output to fire alarm devices 7.9 Output to fire alarm routing equipment 7.10 Output to fire protection equipment Print Delay on outputs Print Co-incidence detection (Type A, B and C) Print Alarm counter 8.9 Output to remote fault or warning signalling devices 10.0 Test condition Options provided in accordance with EN12094-1 4.17 Delay of extinguishing signal Performance Print	ASS ASS ASS ASS ASS ASS ASS ASS ASS			
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(*) one only between 4.20 and 4.27				
Additional information according to EN 54-2 About information required at point 12.2.1, see data contained in this				

About information required at point 12.2.1, see data contained in this

Additional information according to EN 54-4

About information required at point 7.1, see data contained in this manual.

Additional information according to EN 54-21

For the information required by point 7.2.1, see data contained in this manual.

Additional information according to EN 12094-1 Environmental class:

Degree of protection: IP30

manual.

Plegate of protection in State Placeting zones: 1
Zones for CO2, inert gas or halogenated hydrocarbons.
Response delay activation condition: max 3s

Response delay triggering of outputs: max 1s

1.5.2 Directive 2014/53/EU

Hereby, INIM Electronics s.r.l., declares that this type of Previdia Micro control panel are in compliance with the essential requirements and other relevant provisions of Directive 2014/53/UE.

Following paragraph explains how to download the complete Declaration of Conformity.

This product may be used in all EU Countries.

1.5.3 Documents for the users

Declarations of Performance, Declarations of Conformity and Certificates concerning to INIM Electronics S.r.l. products may be downloaded free of charge from the web address <u>www.inim.it</u>, getting access to Extended Access and then selecting "Certifications" or requested to the e-mail address info@inim.it or requested by ordinary mail to the address shown in the paragraph 1.5.1.

Manuals may be downloaded free of charge from the web address www.inim.it, getting access to Extended Access and then selecting "Manuals".

1.5.4 Safety instructions

EN 62368: Equipment only suitable for mounting at heights < 2 m.



symbol indicates that the installer should refer to the instructions manual.

General information

1.5.4 Safety instructions

EN 62368:

Equipment only suitable for mounting at heights ≤ 2 m.

the ATI symbol indicates that the installer should refer to the instructions manual.

Equipment in overvoltage category II (CAT II 2500 V). The equipment, once installed, is subject to transient voltages higher than those of the design project overvoltage category and requires additional protection from transient voltages external to the equipment.

	solation class	I
	AC INPUT	ES3, PS3
	BAT-, BAT+ for control panels in small cabinets	ES1, PS2
	BAT-, BAT+ for control panels in large cabinets	ES1, PS3
	+24/A+/A-/-, +24/B+/B-/-	ES1, PS2
	NO C NC	ES1, PS2
	Ln *	ES1, PS1
	Tn *	ES1, PS1
	I/On *	ES1, PS2
Terminal type	AUX	ES1, PS2
	Ethernet	ES1, PS1
	USB	ES1, PS1
	DIALLER-EXP, LED-EXP	ES1, PS1
	USER-EXP	ES1, PS2
	USB (PREVIDI-C-DIAL)	ES1, PS1
	ANT1 (PREVIDIA-C-DIAL)	ES1, PS1
	L.E., L.I. (PREVIDIA-C-DIAL)	ES1, PS1
	ETHERNET (PREVIDIA-C-COM)	ES1, PS1
	RS232 (PREVIDIA-C-COM)	ES1, PS1

^{*: &}quot;n" indicates a progressive number.

8 General information



Chapter 2

General Description

2.1 **Previdia Micro Models**

Previdia Micro is a series of control panels for the management of fire detection and extinguishing systems.

This series provides different models of control panels distinguished by the type of cabinet in which the modules are housed, the presence of signalling LEDs on the front plate and the possibility of managing an extinction channel.

The name of each model specifies its characteristics, in accordance with the following table:

Series prefix	Mounting cabinet size		esprens		Extinction channel		Cabinet colour	
PREVIDIA-M	S	small cabinet	Z	Available LED indicators	E	Discharge zone	G	grey
I KEVIDIA-M	L	large cabinet	-	LED indicators not available	-	Extinction not available	R	red

2.2 **Control panel descriptions**

Each control panel model comes in a metal cabinet that is packed in a cardboard box. The cabinets used for the Previdia Micro series differ in size and colour:

- small cabinet, dimensions 325x325x80mm, capacity to house 2 batteries of 1,5A – 7Ah, in light grey or red
- large cabinet, dimensions 497x380x87mm, capacity to house 2 batteries of 4A - 7Ah, in light grey or red

Installed inside:

- CPU unit with 4.3" touchscreen, buttons and LEDs for the user interface
- I/O unit for the management of the lines of the Hornet+ network and input/output terminals
- power supply module
- batteries, not included

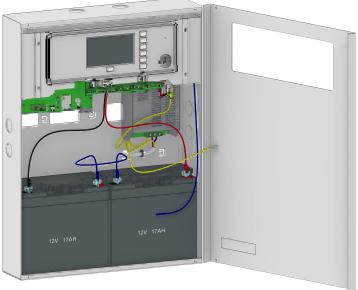
In Some versions there is also a signalling module with 30 individually programmable indicator LEDs (three colours).

The modules can be installed in all the control panels in the range:

- PREVIDIA-C-DIAL (communicator module for communications over PSTN or GSM networks and the management of
- GPRS connections • PREVIDIA-C-COM (serial and IP interface module)
- PREVIDIA-M-EXP (8 line detection expansion module)

Supplied with the control panel is a plastic bag containing:

- battery connection wires
- connection wire with accessory board (PREVIDIA-ML only)
- · ring terminal for the earth connection
- keys for the selection of access level 2
- resistors and EOL diodes for the supervised circuits
- Installation manual



General Description

Note:

The control panels described in this manual have been designed and manufactured to the highest standards of quality, reliability and performance adopted by INIM Electronics.

The components selected for this product will operate properly within their specifications when the environmental conditions outside the product enclosure comply with Class 3k5 (EN 60721-3-3).

EN54:

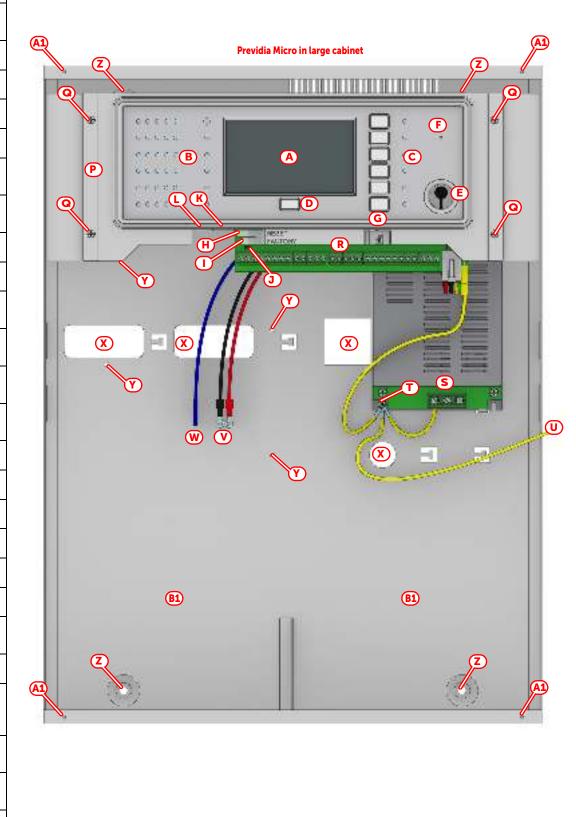
The gas detection function is not provided for in the aforesaid standard and therefore cannot be considered EN54-2 compliant.

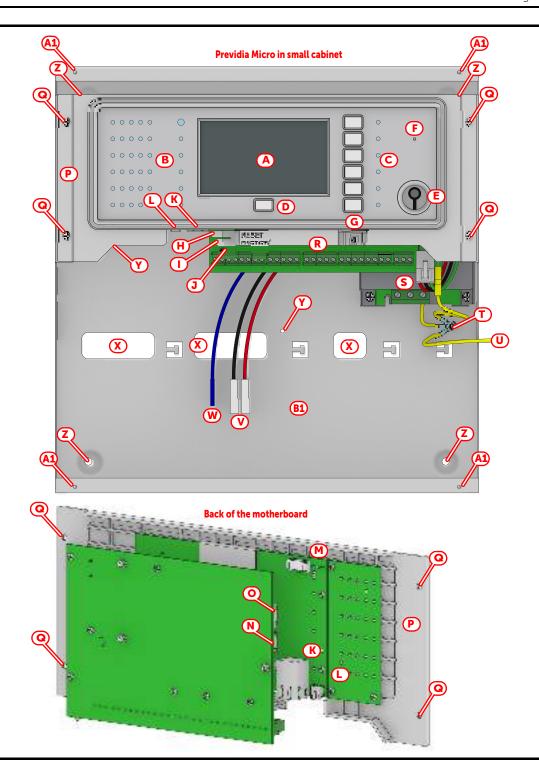
		Previdia Mi	cro Models	
Specifi	cation	PREVIDIA-MS (in small cabinet)	PREVIDIA-ML (in large cabinet)	
Supply	voltage	230V~ (-15% / -	+10%) 50/60Hz	
Maximum curre	ent draw 230V	0.5 A	1.1 A	
AC mains inp	out terminals	$\begin{array}{c} \text{AC Input} \\ \frac{230 \text{V} \sim 50/60 \text{ Hz}}{\text{L} N} \end{array}$	AC Input 230V ~ 50/60 Hz N L	
Nominal out	put voltage	27.6	V 	
Maximum ou	itput current	1.5 A	4 A	
I _{ma}	x. a	1.5 A	4 A	
I _{ma:}	x. b	1.5 A	4 A	
Motherboard absorption	stand-by	150mA		
	without supply voltage	130mA		
	LED test	170mA		
LED board absorption (where present)	stand-by	5mA		
	LED test	115mA		
Maximum battery	/-charge current	0.6 A	1,2 A	
Battery spe	cifications	2 x 12 V, 7 Ah	2 x 12 V, 17 Ah	
battery spe	Cilications	with UL94-V2 flame class cabinet or higher		
Maximum internal resistan	ce of the batteries (R _{i max})	2.7 Ohm	1 Ohm	
Output	voltage	from 19 to 27.6V		
Battery shutd	own tension	19V		
Internal fuse of pov	ver supply module	T 3.15A 250V		
Maximum outpu	ut current ripple	420 mV 260 mV		
Operating to	emperature	from -5°C to 40°C		
Isolatio	n class	I		
Enclosure protectio	n class (EN 60529)	IP.	30	
Dimer	nsions	322 x 324 x 86 mm	497 x 380 x 97 mm	
Weight (with	out batteries)	3.3 Kg	6.1 Kg	

When you remove the four screws and metal-front plate, you will find:



[A]	Touchscreen display			
[B]	Status LED			
[C]	LED and function button			
[D]	LED and multiple-alarm button			
[E]	Access-key slot			
[F]	Buzzer			
[G]	MicroSD card holder			
[H]	Reset button			
[1]	Button to reset default settings (factory settings)			
[J]	Programming jumper connector			
[K]	Ethernet port			
[L]	Mini USB port			
[M]	Connector for PREVIDIA- C-DIAL board			
[N]	Connector for PREVIDIA- C-COM board			
[0]	Connector for PREVIDIA- M-EXP board			
[P]	Support for the motherboard			
[Q]	Support anchor screw			
[R]	R] Terminal board			
[S]	Power-supply terminals			
[T]	Earthing point			
[U]	Front plate earth wire			
[V]	Battery wires			
[W]	Thermal probe for batteries			
[X]	Cable entry			
[Y]	Locations for the mounting screws of the optional plates			
[Z]	Mounting screw locations			
[A1]	Locations for the front plate screws			
[B1]	Battery housing			





Output connection terminals					
number	number name maximum current: function				
1, 5	+24	500mA		Positive	
2, 3	A+, A-	/	Hornet+ network	Port A (positive and negative)	
6, 7	B+, B-	/	terminal	Port B (positive and negative)	
4, 8	-	/		Negative	



number	name	maximum current:	function	
9, 10	+ L1 -	/		
11, 12	+ L2 -	/	Fire detection zone Gas detection zone Input connection terminals	
13, 14	+ L3 -	/		
15, 16	+ L4-	/		
17, 18, 19, 20	T1, T2, T3, T4	100 mA @ 27.6V	Fire detection zone Gas detection zone Input connection terminals Output connection terminals	
21	GND	/	Earth terminal	
22, 23	+ I/O1 -	1A @ 27.6V	Fire detection zone	
24, 25	+ I/O2 -	1A @ 27.6V	Gas detection zone Input/Output connection terminals	
26, 27	+ AUX -	1A @ 27.6V	Input/Output connection terminals	
28, 29, 30	NO, C, NC	5A @ 30V Free voltage relay		

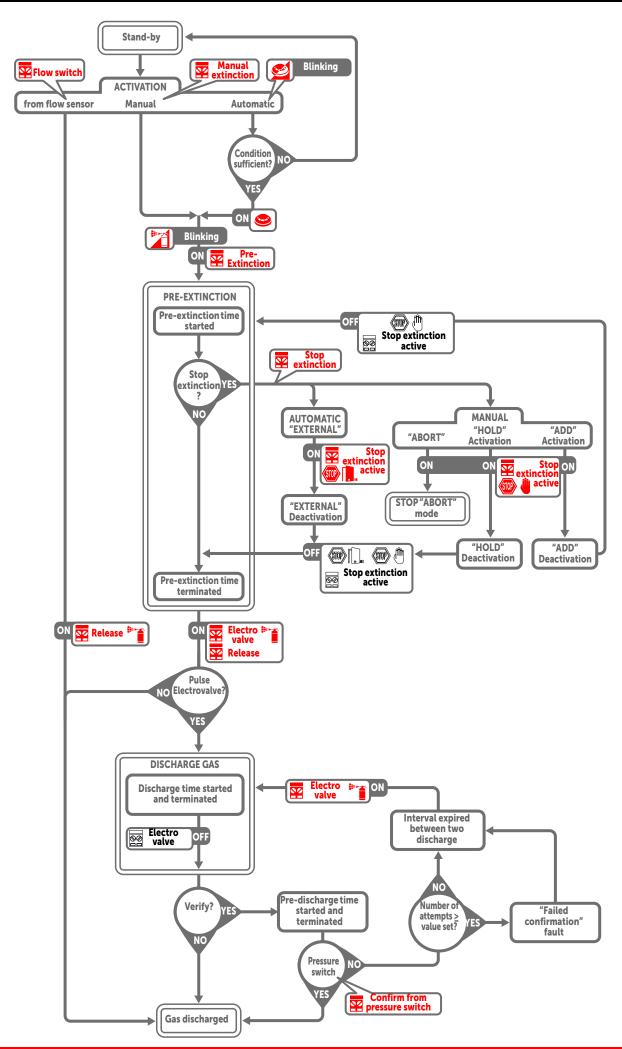
2.3 Fire Extinction

Some models of Previdia Micro control panel allow the management of a gas-extinguishing channel.

Complies with EN12094-1 and provides the inputs, outputs and control logic required by these systems.

LED		Colour	On solid	Flashing
	Extinction channel activation LED	Red	Discharge activated	Pre-extinction condition running
	Automatic activation indicator LED	Red	Automatic discharge command activated	Automatic discharge command partially activated
	Bypass automatic activation LED	Yellow	The automatic discharge command has been bypassed	/
X	Bypass extinction channel LED	Yellow	Channel bypassed	/
(STOP)	Manual stop extinction LED	Yellow	Lock extinction command activated	Fault on stop-extinction circuit
(STOP) []	Stop extinction LED from non-electrical-devices	Yellow	Lock extinction command activated	Fault on stop-extinction circuit

The following figure shows a flowchart of the operations carried out by the control panel in the pre-extinction phase, that is, from the occurrence of the events that trigger the extinction phase to the start of the release condition, and during the release of fire extinguishing gas:





The following table contains a description of the functions associated with the extinction that can be programmed for the control panel inputs and outputs.

	Terminal function	Activation		
Pressure switch	Input for the supervision of the pressure of the cylinders containing the gas.		input is activated in the case of pressure drop in the cylinders. uring stand-by status, its activation generates a fault warning.	
Confirm release from pressure switch	Input, for the connection of a pressure switch, confirming the release of the gas from the cylinders.	After releasing the electrovalve, its activation is used to confirm the release of the gas.		
Flow switch	Input, for the connection of a flow sensor that will signal the release of the gas from the cylinders.	The input will be activated by a sensor that detects the flow of extinguishing gas. The flow may have been activated directly without following the procedure of extinction and pre-extinction.		
		Abort	If this input is activated during the pre-extinction phase, the extinction procedure will be aborted even if the input resets. The procedure can be restarted only after control panel reset. If this input is activated during stand-by, it will generate a fault warning.	
Ston	The inputs stop the extinction procedure in accordance with the activation mode described opposite.	Add	If this input activated during pre-extinction status, the extinction procedure will remain locked until the input resets. On input reset the pre-extinction countdown will refresh and restart. If this input is activated during stand-by, it will generate a fault warning.	
Stop extinction		Hold	If activated during a pre-extinction condition, the extinction procedure is stopped but the pre-extinction time count continues. When the input is restored, if the pre-extinction time count has terminated, the gas will be released. If this input is activated during stand-by, it will generate a fault warning.	
		External	This function is identical to the "Hold" function but refers to mechanical or electrical intervention (for example, a door contact that inhibits gas discharge, etc.). This activation will be signalled separately. If activated during stand-by, it will not generate a fault warning.	
Manual extinction	This input is for the connection of one or more manual call points for the activation of extinguishing-agent discharge.			
Electrovalve	Output for the connection of the electrovalve which discharges the extinguishing agent.	It will activate only when the pre-extinction time expires		
Stop extinction active	Output for the connection of stop- extinction signalling devices.	It will activate when the extinction channel is stopped by one or more inputs connected to the "Stop extinction" input.		
Pre- Extinction	Output for the connection of a signal relating to imminent discharge of the extinguishing agent.	It will activate during the pre-extinction time which runs before the discharge of the extinguishing agent.		
Release	Output for the connection of signalling devices which warn building inhabitants of the actual discharge of the extinguishing agent.	It will activate on activation of the electrovalve.		

EN12094-1: To guarantee compliance of the product to EN 12094-1, the control panel must be configured to make available the following functions (the others are optional):

Manual extinction, Electrovalve, Pre-extinction, Release.

The "Electrovalve" function must only be associated with the "AUX" terminal on board the control panel.

Refer to the Configuration Manual for the programming details of the other functions.

EN12094-1: In compliance with the requirements of standard EN 12094-1, if the "Stop extinction-Abort" function is used in a Previdia Micro control panel, the "Stop Extinction-Hold" and "Stop Extinction-Add" functions cannot be activated, and vice versa.

Please remember that no more than 32 devices can be connected to each of the selected input or output terminals.

2.4 Previdia-C-DIAL, telephone line Communicator module

The optional PREVIDIA-C-DIAL board allows you to connect Previdia Micro control panels to the landline (PSTN) and to the GSM 2G and 3G networks.

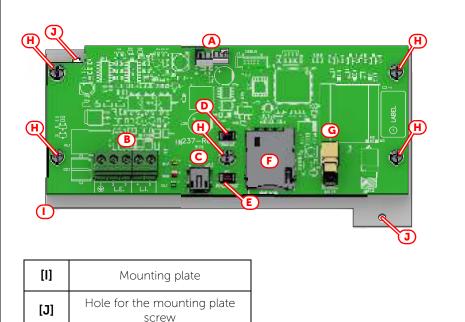
It manages reporting protocols used by alarm receiving centres. This module allows the control panel to make voice calls and send SMS text messages.

The board comes with:

- Mounting plate
- 7 mounting screws
- cable for the connection to the motherboard
- remote antenna
- Instructions manual

SIM card not included

[A]	Motherboard connector			
	\(\begin{array}{c}\end{array}\end{array}\)	Ground terminal		
[B]	L.E.	Telephone line connection terminals		
	L.I.	Internal telephone line terminals		
[C]	Mini USB port			
[D]	Reset button			
[E]	Button to reset default settings (factory settings)			
[F]	SIM card holder			
[G]	GSM antenna connector			
[H]	Screws for fixing the board to the plate			



Technical specifications				
Power supply voltage		19-30 V 		
Consumption @	stand-by	40mA		
27.6V	maximum	140mA		
Band frequency		2G: 850/900, 1800/1900 MHz 3G: 800/850/900, 1900/2100 MHz		
Maximum RF output power		2W, 1W		
Operating temperature		from -5°C to +40°C		
Antenna		remote GSM-UMTS cable 2m, SMA-Male connector (500hm impedance) and magnetic base		



2.5 PREVIDIA-C-COM, serial and IP interface module

The PREVIDIA-C-COM optional board, available in two models, allows the Previdia Micro to interface with third-party devices external to the control panel.

The communication channels and functions connected to them depend on the model of the board:

- two RS485 channels
- two RS232 channels
- a LAN channel via ethernet port, only for the PREVIDIA-C-COM-LAN model

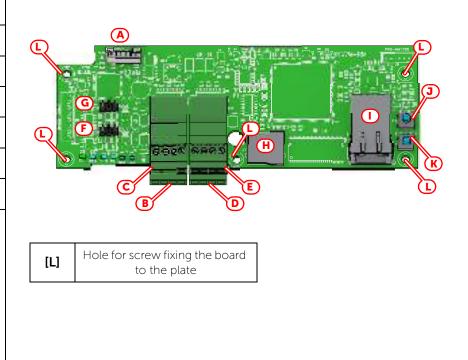
The PREVIDIA-C-COM-LAN model also provides the control panel with the functions of video verification, e-mail transmission, web server and use of BACnet protocol.

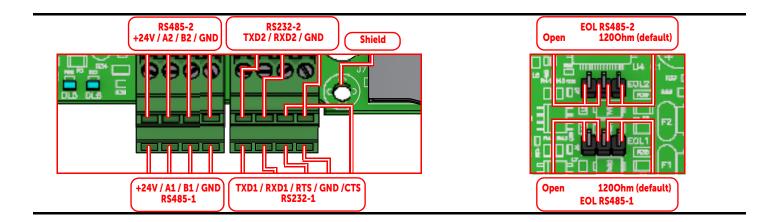
The board comes with:

- Mounting plate
- 7 mounting screws
- 5 spacers
- cable for the connection to the motherboard
- Instructions manual

SD card not included

[A]	Motherboard connector				
[B]	Terminals RS485-1				
[C]	Terminals RS485-2				
[D]	Terminals RS232-1				
[E]	Terminals RS232-2				
[F]	Connectors for RS485-1 EOL resistance				
[G]	Connectors for RS485-2 EOL resistance				
[H]	MicroSD card holder				
[1]	Ethernet port	for PREVIDIA-			
[J]	Reset button	C-COM-LAN only			
[K]	Button to reset default settings (factory settings)				





Technical specifications	PREVIDIA-C-COM	PREVIDIA-C-COM-LAN
Supply voltage	19-30 V 	
Consumption @ 27.6V	15mA	40mA
I _{max. RS485}	200mA	
Operating temperature	from -5°C to +40°C	
SD card capacity	/	Maximum 32 Gbyte

2.6 PREVIDIA-M-EXP, expansion module

The optional PREVIDIA-M-EXP board allows Previdia Micro control panels to add on 8 detection lines and 6 programmable terminals.

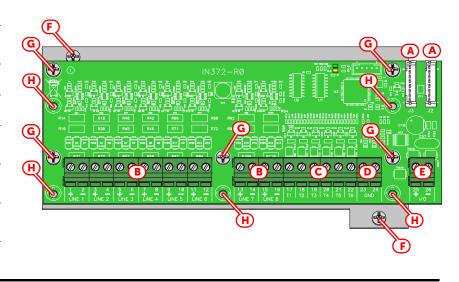
The control panel in a small cabinet (PREVIDIA-MS) allows for installation of 2 expansion boards, whereas the control panel in a large cabinet (PREVIDIA-ML) allows for installation of 4 expansion boards depending on the use of other optional boards (PREVIDIA-C-DIAL or PREVIDIA-C-COM).

The zone expansion board also provides a 1A supervised output, the operating principles of which can be defined during the system configuration phase.

The board comes with:

- Mounting plate
- 7 mounting screws
- 5 spacers
- connection cable
- EOL resistors and diodes
- Instructions manual

[A]	Connector for the motherboard connector or for another PREVIDIA-M-EXP board				
[B]	LINE 1, 8	Detection line connection terminals			
[C]	T 1, 6	Programmable terminals			
[D]	GND	Ground terminals			
[E]	1/0	Supervised output terminals			
[F]	Hole/screw for mounting the plate to the back-box				
[G]	Hole/screw for mounting the board to the plate				
[H]	Hole for the screw for mounting the board to the one below				



Technical specifications	PREVIDIA-M-EXP
Power supply voltage	19-30 V
Consumption @ 27.6V	60 mA
Operating temperature	from -5°C to +40°C

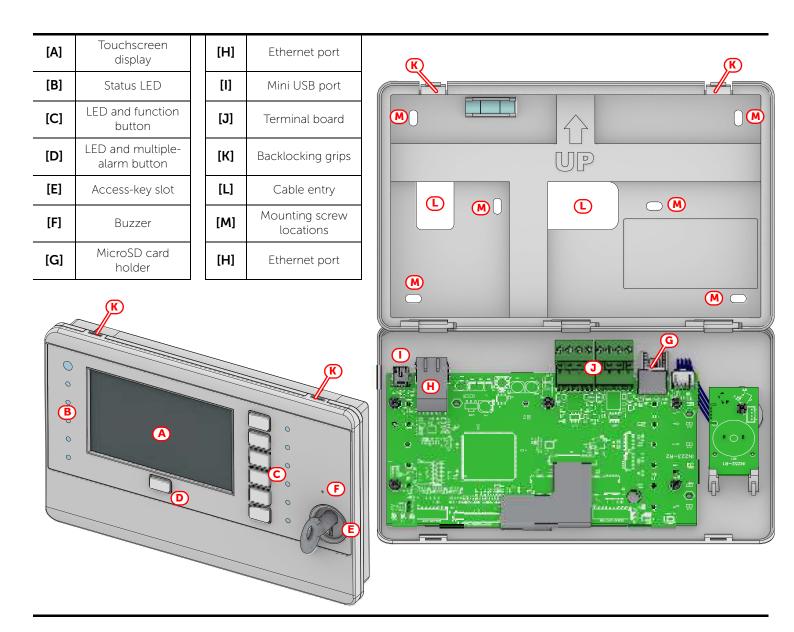


2.7 Previdia Compact REP Repeater

For installations requiring a system control point other than the point where the Previdia Micro control panel is installed, there are two repeater panel models, that is, devices that allow you to remotely view the information available on the user interface of the control panel.

The models are:

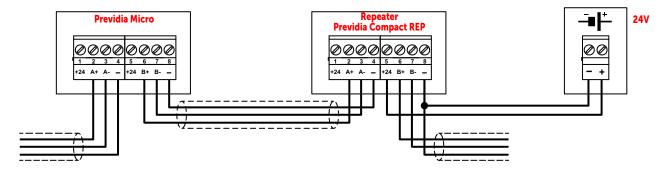
- PREVIDIA-C-REP, standard repeater
- PREVIDIA-C-REPE, standard repeater with extinction channel LEDs



Technical specifications			
Power supply voltage		19-30 V 	
	stand-by	110mA	
Consumption @ 27.6V	during mains failure	80mA	
	maximum	130mA	
Operating temperature		from -5°C to +40°C	
Dimensions		210 x 132 x 32mm	
Weight		330g	

The repeaters can be connected to the system via the Hornet+ network (paragraph 3.7 Connecting the Hornet+ network) or via a TCP-IP connection and can also be associated with Previdia Max control panels.

If necessary, it is possible to power the repeater using an external power supply module.



EN54:

The power-supply unit employed must be EN54-4 standard compliant.

2.8 Control panels in a Hornet+ network



In order to enlarge the installation, it is possible to connect several Previdia Max and Previdia Micro control panels (with a maximum of 48 points including control panels and repeaters) thus creating an expanded system (Hornet+network).

Each model of the Previdia Micro control panel provides two RS485 ports for the ring connection (for details on the wiring refer to paragraph 3.7 Connecting the Hornet+ network).

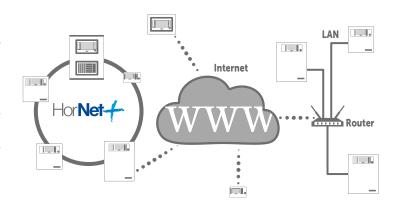
For further information regarding the method used for connecting control panels in a network refer to the Previdia Networking Guide available at www.inim.it.

2.9 Control Panels in an IP network

Several Previdia Max, Compact or Micro control panels or more Hornet+ control panel networks can be connected to each other via a TCP-IP connection.

Each node in a connection of this type is identified as a "cluster". Each cluster can consist of a single control panel, a Hornet+ network of control panels or a repeater.

For further information regarding the method used for connecting control panels in a network refer to the Networking Guide available at www.inim.it



2.10 Inim Cloud fire

The INIM Electronics Cloud service provides Previdia system users with a further method of intrusion panel management via Internet.

The connection of the control panels to the Cloud service is achieved via a web interface (App or any browser) without need of implementing configurations on the network in which the control panel is installed. In particular, it is not necessary to program a router to perform port-forwarding and the like in order to reach the control panel.



Each cluster can be connected to the Inim loud, allowing you to take advantage of the following features:

- Remote system monitoring (thus overcoming local network configuration difficulties)
- System register management (in accordance with local regulations in force)
- Management of the maintenance register



Chapter 3

Installation

Note:

The installation of these control panels must be carried out in full compliance with national design regulations, local fire regulations, laws and provisions in place, and in accordance with the relative instructions and guidelines.

This Fire control panel should be located in a place that is:

- Dry
- Far from electromagnetic interference (electrical equipment, heating units, air-conditioning units, radio transmitters, etc.)

The mounting location must satisfy all the requirements of the respective laws and bylaws in force for technical installations.

The system must be installed in accordance with the following procedure:

- 1. Lay the cables
- 2. Connect all the devices to the BUS and to the detection lines.
- 3. Mount the Previdia-C-DIAL module inside the control panel (optional).
- 4. Mount the control panel to the wall
- 5. Complete the connections inside the control panel.
- 6. Power up the system.
- 7. Test the system

EN54:

In order to guarantee the IMQ-safety systems certification and compliance to standard EN54-2:

- all the manual alarm buttons and fire detectors employed in the system must be associated with fire detection and alarm functions.
- not more 512 detectors and/or manual call points can be connected.
- the wiring must be such that, in the event of any failure, the number of devices that remain insulated can never exceed 32.

3.1 Mounting the control panel to the wall

- 1. Remove the securing screws and door (paragraph 2.2 [A1]).
- 2. Remove the screws of the plastic housing containing the motherboard (paragraph 2.2 [P]) paying attention to the power-supply connection cables.
- 3. Open the holes at the side that you intend to use for the cable passage.

Note:

In order to guarantee the IP30 protection grade, do not open any other holes..

- 4. Pull the cables through the open cable entries.
- 5. Using the holes on the back, mount the cabinet to the wall (paragraph 2.2 [Z]). The manufacturer strongly recommends the use of 8mm diameter minimum anchor screws (stop screws).
- 6. Complete the connections with the control panel terminals.
- 7. Replace the front plate.

3.2 Mounting of the PREVIDIA-C-DIAL, PREVIDIA-C-COM and PREVIDIA-M-EXP optional modules

The PREVIDIA-C-DIAL, PREVIDIA-C-COM and PREVIDIA-M-EXP modules must be mounted inside the cabinet.

Attention:

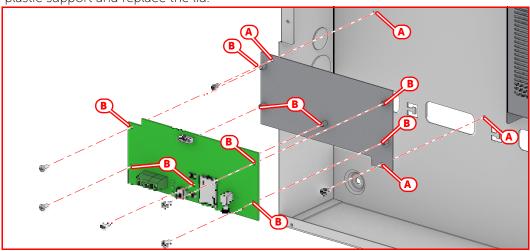
The module installation procedure must be carried out after disconnecting the control panel power supply (220V and batteries).



Single module

If only one of the optional modules is to be installed, the procedure to be followed is as follows:

- 1. Open the control panel cabinet by removing the metal front plate and the plastic support of the motherboard (paragraph 2.2 [P]).
- 2. Attach the mounting plate to the back of the cabinet by fastening the screws provided into the appropriate holes ([A], paragraph 2.2 [Y], paragraph 2.4 [J], paragraph 2.6 [F]).
- 3. Attach the board to the mounting plate by fastening the screws provided into the appropriate holes ([B], paragraph 2.4 [H], paragraph 2.5 [L] and paragraph 2.6 [G]).
- 4. Using the cable supplied, connect the module to the motherboard via the appropriate connectors (paragraph 2.2 [M] and paragraph 2.4 [A] for PREVIDIA-C-DIAL, paragraph 2.2 [N], paragraph 2.5 [A] for PREVIDIA-C-COM and paragraph 2.6 [A] for PREVIDIA-M-EXP).
- 5. Complete the external connections.
- 6. Replace the plastic support and replace the lid.



More modules

If several optional modules are to be installed, the procedure is as follows:

1. Mount the first module on the back of the cabinet following the procedure described above. Previdia Micro control panels in large cabinets provide two positions on the back of the cabinet (paragraph 2.2 - [Y]).

Note:

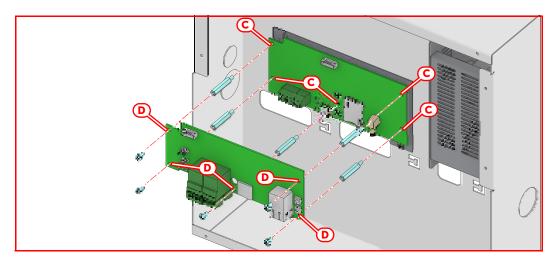
If you are also installing a PREVIDIA-C-DIAL module, this must be positioned as the first module on the back of the cabinet.

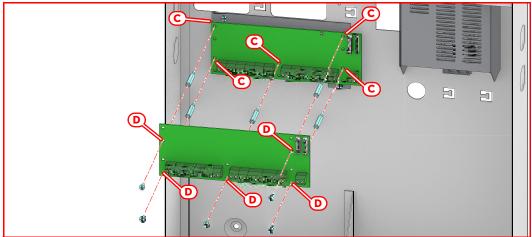
- 2. The successive module must be mounted to the first.
 - Attach the spacers supplied with the second module to the mounting holes of the first module ([C], paragraph 2.4 [H] and paragraph 2.5 [L]).
 - For PREVIDIA-M-EXP modules (paragraph 2.6 [G]) the holes are different from those for mounting to the back of the cabinet.
- 3. Attach the second module to the spacers by fastening the screws provided into the appropriate holes ([D], paragraph 2.4 [H] and paragraph 2.5 [L], paragraph 2.6 [H]).
- 4. Using the cable supplied, connect the module to the motherboard via the appropriate connectors (paragraph 2.2 [N] and paragraph 2.5 [A]).



In the case of installation of several PREVIDIA-M-EXP modules, only one of them should be connected to the motherboard (paragraph 2.2 - [O]), whilst the others should be connected one to the other (paragraph 2.6 - [A]).

- 5. Complete the external connections.
- 6. Replace the plastic support and replace the lid.





3.3 Control panel wiring

Attention:

Take care to remove all sources of power, including the batteries before starting any wiring operations.

Cables:

The cables used for the wiring of the product must have an adequate section and comply with the IEC 60332-1-2 or IEC 60332-2-2 standards.

The ends of wires must not be soft soldered in points where they are subject to clamping.

3.3.1 Mains connection

EN54: The power-supply system of Previdia Micro control panels is EN54-4 compliant.

Attention: Do not power up the system with a non-compliant voltage.

1. Connect the mains power supply to the terminals on the power-supply module ([A], paragraph 2.2 - [S]).

For a safety standards compliant system, the Line must be connected to terminal " \mathbf{L} ", the Neutral conductor to terminal " \mathbf{N} ".

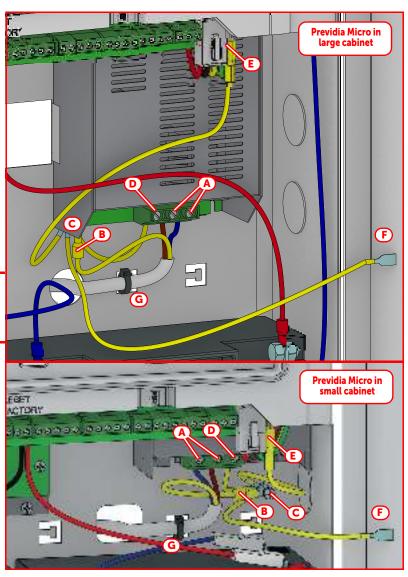
The power supply to the control panel must come directly from a reserved line of the electric distribution panel. The line must be protected by a sectioning device which complies with local safety regulations, fire codes, laws and bylaws in force.

The power source must be provided through a bipolar protection device.

Note:

As a further safety measure, the electrical system of the building must be protected against overload and short-circuit.

- 2. Crimp the earth line wire to the eyelet terminal [B].
- 3. Attach the wire with the eyelet to the control panel using the ground connection screw [C].
- 4. Ensure that the terminal "\(\oplus \)" of the power supply module \([D]\)], the motherboard \([E]\) and the front plate \([F]\) of the cabinet are connected to earth system.



Attention:

The protective earthing system must be compliant with the local safety regulations, fire codes, laws and bylaws in force.

Note:

A protective earth connection ensures that all exposed conductive surfaces are at the same electrical potential as the earth surface, in order to avoid the risk of electrical shock if a person touches a device in which an insulation fault has occurred. In the event of an insulation fault, a protective earth connection will generate a high fault current which in turn will trigger an overcurrent protection device (fuse) and disconnect the power supply.

5. Ensure that low-current safety or signal lines DO NOT come into contact with points with potentially dangerous currents.

Using a plastic cable tie, bunch the wires together and secure them to one of the wire hooks on the back of the cabinet [G].

Note:

The connection wires (to the mains supply and also any other wires inside the cabinet) must be secured to the cable hooks on the back plate by means of plastic cable ties. Use cable with double isolation for the connection to the electrical mains.

3.3.2 Connecting the batteries

The metal cabinet of the control panel provides housing for two 12V, 7 Ah lead batteries for the small version and 17 Ah for the large version. The two batteries must be connected in series, in such way as to supply 24V.

The backup power batteries are not included.

1. Insert the batteries into the battery compartment inside the cabinet (paragraph 2.2 - [B1]).

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- 2. Using the battery wire ([A]), connect the batteries together.
- 3. Connect the wire coming from the power supply ([B] paragraph 2.2 [V]) to the battery terminals ([C]).

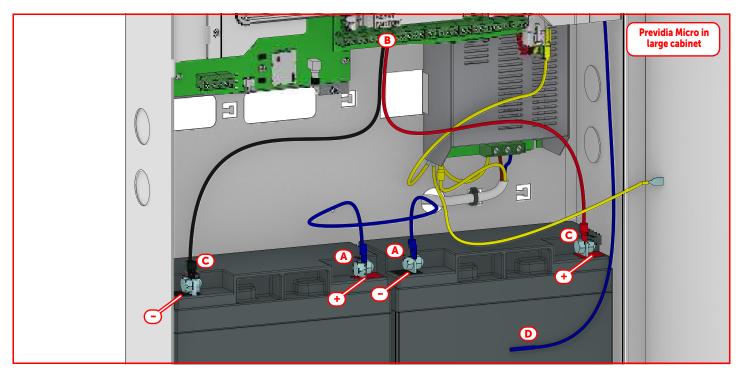
Attention:

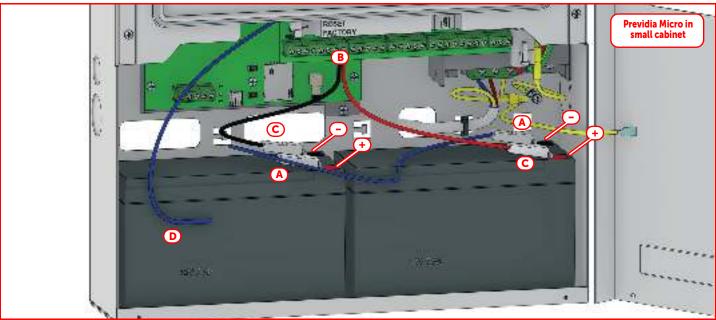
Ensure that the polarity is correct.

Red - positive Black - negative

The connection of the batteries before the mains voltage is present will not activate the system. Once the mains voltage is supplied, the power-supply module will connect the batteries automatically and initialize the circuits which manage them.

4. Position the thermal probe (paragraph 2.2 - [W]). The thermal probe must be positioned on the side of the battery and held in place by a strip of tape ([D]).





Note:

The installer must use only valve regulated lead-acid batteries (VRLA) for stationary use, compliant with IEC 60896-21 and IEC 60896-22 standards. Such batteries must have a V-1 or higher firestop casing. For the internal clock battery replacement, the installer must use only non-rechargeable CR2032 lithium batteries compliant with IEC 60086-4 standard.

3.4 Connection of detection zones

The Previdia Micro control panel and the PREVIDIA-M-EXP module provide the following terminals for connection to detection zones:

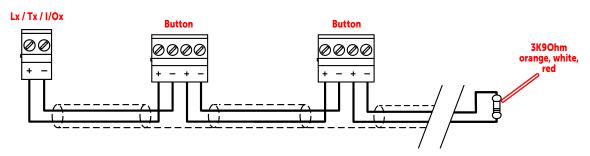
Terminals		Fire detection zone			Gas detection zone	
Previdia Micro	PREVIDIA-M- EXP	Buttons	Contacts	Detectors	Relay detectors	4-20 mA
L1, L4	LINE1, LINE8	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
T1, T4	/	\checkmark	\checkmark	/	\checkmark	\checkmark
/	T1, T6	\checkmark	\checkmark	/	\checkmark	/
I/O1, I/O2	I/O	\checkmark	\checkmark	/	\checkmark	/
AUX	/	/	/	/	/	/

Cables:

2 wire shielded cable

Proper section (minimum 0.5mm², maximum 2.5 mm²) Compliant with local laws and regulations in force

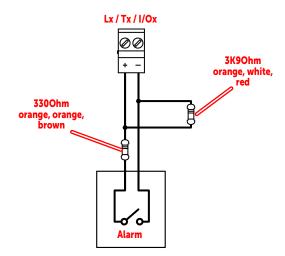
Connection of buttons



Connection of contacts with alarm signal

The wiring diagram illustrates a connection made to one of the Lx, Tx or $\mathsf{I/Ox}$ terminals configured as input.

The connected device is equipped with a normally open output for alarm signalling.

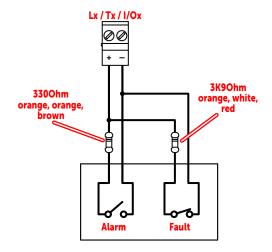




Connection of contacts with alarm and fault signals

The wiring diagram illustrates a connection made to one of the Lx, Tx or I/Ox terminals configured as input.

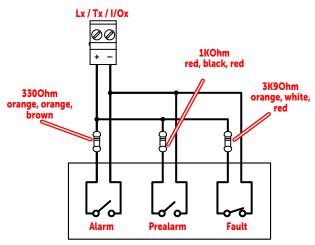
The connected device is equipped with a normally closed fault signalling output and a normally open alarm signalling output.



Connection of contacts with alarm, fault and pre-alarm signals

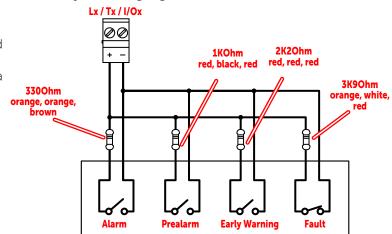
The wiring diagram illustrates a connection made to one of the Lx, Tx or I/Ox terminals configured as input.

The connected device is equipped with a normally-closed fault signalling output, a normally-open alarm signalling output and a normally-open pre-alarm signalling output.

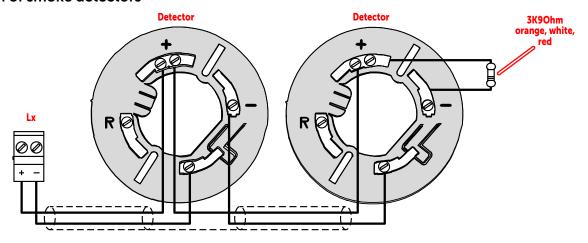


Connection of contacts with alarm, fault, pre-alarm, and early-warning signals

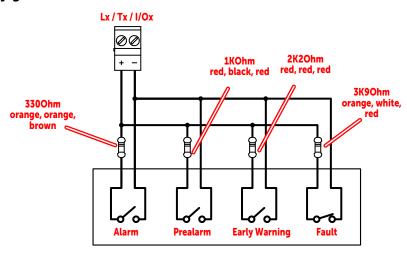
The wiring diagram illustrates a connection made to one of the Lx, Tx or I/Ox terminals configured as input. The connected device is equipped with a normally-closed fault signalling output, a normally-open alarm signalling output, a normally-open pre-alarm signalling output and a normally-open early-warning output.



Connection of smoke detectors

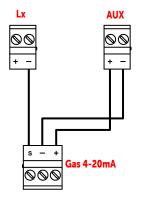


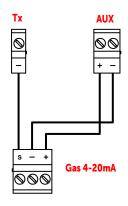
Connection of relay gas detectors



Connection to channels configured as 4-20mA gas input

The wiring diagram illustrates the connection to be made to one of the Lx or Tx terminals configured as gas input to which is connected a generic 4-20mA output device powered from a 24V source, in the diagram the control panel AUX terminals.





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3.5 Connection of function inputs and outputs

The Previdia Micro control panel and the PREVIDIA-M-EXP module provide the following terminals for connection of devices configurable as input or output function:

Ter	minals		Outputs		
Previdia Micro	PREVIDIA-M- EXP	Inputs	100 mA	1 A	
L1, L4	LINE1, LINE8	\checkmark	/	/	
T1, T4	T1, T6	\checkmark	\checkmark	/	
I/O1, I/O2	I/O	\checkmark	/	\checkmark	
AUX	/	\checkmark	/	\checkmark	

Cables:

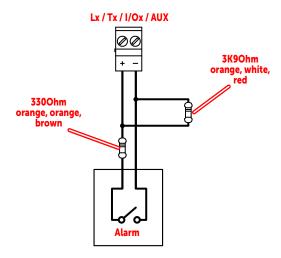
2 wire shielded cable

Proper section (minimum 0.5mm², maximum 2.5 mm²) Compliant with local laws and regulations in force

Connection of devices with alarm signal

The wiring diagram illustrates a connection to be made to one of the Lx, Tx, I/Ox or AUX terminals configured as input.

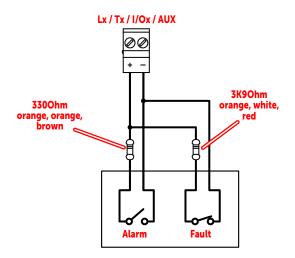
The connected device is equipped with a normally open output for alarm signalling.



Connection of devices with alarm and fault signals

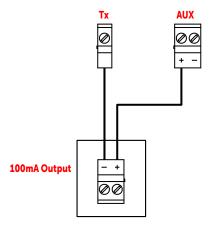
The wiring diagram illustrates a connection to be made to one of the Lx, Tx, I/Ox or AUX terminals configured as input.

The connected device is equipped with a normally open output for alarm signalling and a normally closed output for fault signalling.

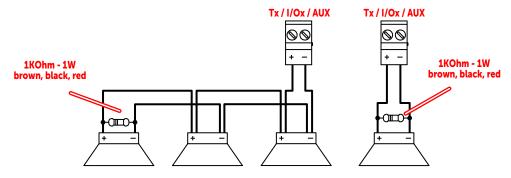


Connection of devices configured as outputs with a maximum of 100mA

The wiring diagram illustrates a connection to be made to one of the Tx terminals configured as input to which is connected a generic device with 100mA maximum output powered from a 24V source, in the diagram the control panel AUX terminals.



Connection of polarized devices (sounders, etc.) to channels configured as outputs

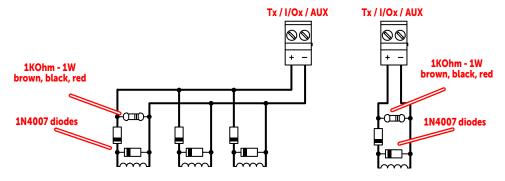


The polarities refer to the active status of the output, the polarities invert for stand-by status.

EN54:

If the control panel default settings are left unchanged, the I/O 1 output will result as being configured as a type C output for the connection of audible/visual signalling devices. The output will activate in the event of any type of fire-alarm condition.

Connection of non-polarized devices (relays, etc.) to channels configured as outputs



3.6 Relay output wiring

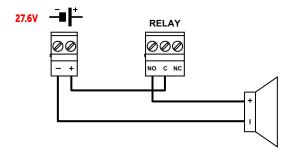
Cables:

2/3 wire shielded cable

Proper section (minimum 0.5mm², maximum 2.5 mm²) Compliant with local laws and regulations in force



The relay output of the module (terminals "28-29-30") must be connected according to the following diagram:



All voltage free relay contact can only be connected to SELV circuits.

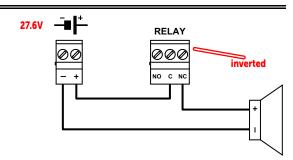
The illustrated connection does not supervise the cable and does not signal connection faults.

EN54:

If the control panel default settings are left unchanged, the RELAY output will result as being configured as a fault signalling output.

In compliance with the regulations in force, the output must be configured as "inverted" in order to switch to fault condition when the system is completely without power.

Therefore, in stand-by status (no faults present on the system) terminals C and NO will be closed, whereas terminals C and NC will be open.



3.7 Connecting the Hornet+ network

The connection of two or more control panels (Previdia Max, Previdia Micro or repeaters) in a Hornet+ network can be achieved by using two RS485 communication ports.

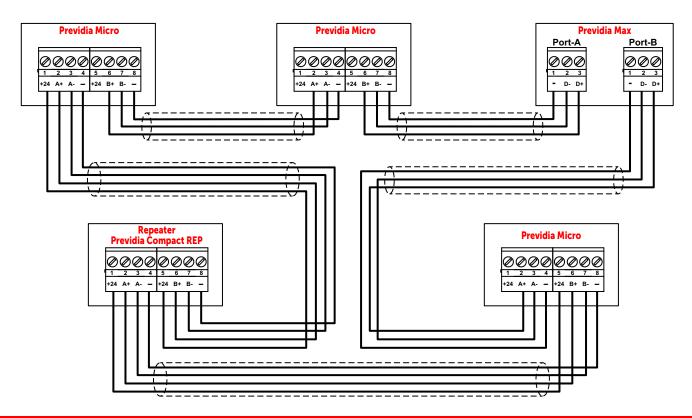
Cables:

4 wire shielded cable

Typical impedance 120hm

Maximum length 1000m (between two successive control panels)

Compliant with local laws and regulations in force

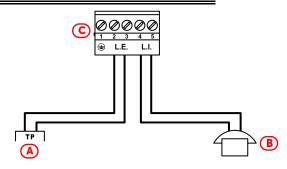


3.8 Connecting the land-line (PSTN)

The control panel can only be connected via the optional Previdia-C-DIAL board.

Cables:

Compliant with local regulations in force



Connect the telephone line [A] to the "L.E." terminals and telephone device or the internal phone line [B] to the "L.I." terminals of the board ([C], paragraph 2.4 - [B]).

3.9 Wiring the external communicators

The Previdia Micro control panels can be used to drive remote alarm or fault signalling devices.

Cables:

2-wire shielded cable

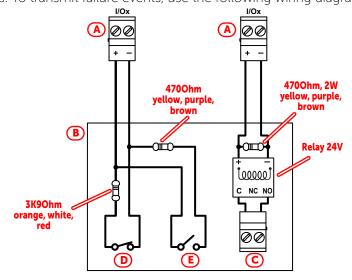
Proper section (minimum 0.5mm², maximum 2.5 mm²) Compliant with local laws and regulations in force

The "I/O" terminals on-board the control panel [A] and the supervised outputs can be used to create an E-type output (output for the activation of alarm status signalling on a remote signalling device, as prescribed by standard EN54-2).

To create a J type output (output for activation of fault status signalling on a remote signalling device, as prescribed by standard EN54-2), only the "I/O" terminals can be used on board the control unit, which can be Programmed as active in rest condition.

EN54:

In both cases, as the external communicator, you must use a remote communication device compliant with standard EN54-21 [B] and equipped with a supervised activation input [C], a normally closed fault signal output [D] and a normally-open output for confirming successful communications [E]]. If the external Communicator does not have a supervised activation input, the connection to the control panel can be carried out by means of a relay, which must be installed inside the communicator casing. To transmit alarm events via the I/O terminals on board the control panel, you can use normal wiring for non-polarized devices. To transmit failure events, use the following wiring diagram:







System Test

INIM Electronics recommends that the entire system be checked completely at regular intervals.

For testing and maintenance procedures, refer to the Manual for system configuration, commissioning and maintenance.

Replacement and disposal of used devices

When replacing obsolete devices, disconnect the devices concerned then complete the connections of the new devices in compliance with the instructions printed on the respective leaflets.

Contact your local municipal offices for information regarding the disposal of used electronic devices.

Do not burn used electronic devices, or allow them to pollute the environment (countryside, rivers, etc.). Electronic devices must be disposed of in a safe environment-friendly way.

WEEE

Pursuant to art. 26 of the Legislative Decree 14 March 2014, n. 49 "Implementation of Directive 2012/19 / EU on waste electrical and electronic equipment".



The crossed-out bin symbol on the equipment or on its packaging indicates that the product must be disposed of correctly at the end of its working life and should never be disposed of together with general household waste.

The user, therefore, must take the equipment that has reached the end of its working life to the appropriate civic amenities site designated to the differentiated collection of electrical and electronic waste.



As an alternative to the autonomous-management of electrical and electronic waste, you can hand over the equipment you wish to dispose of to a dealer when purchasing new equipment of the same type.

You are also entitled to convey for disposal small electronic-waste products with dimensions of less than 25cm to the premises of electronic retail outlets with sales areas of at least 400m², free of charge and without any obligation to buy.

Appropriate differentiated waste collection for the subsequent recycling of the discarded equipment, its treatment and its environmentally compatible disposal helps to avoid possible negative effects on the environment and on health and favours the re-use and/or recycling of the materials it is made of.

System Test 35



ISO 9001 Quality Management certified by BSI with number FM530352

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