



inim ULTRA216 Control Panel Instruction Manual

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inim ULTRA216 Control Panel



Product Information

Specifications

- **Dimensions:** 433 x 677 x 258 mm
- **Weight:** 20 Kg
- **Protection Grade:** IP30

Technical Specifications

- **Power Supply Voltage:** 19-30V
- **Operating Temperature:** Varies
- **Consumption @ 27.6V Stand-by Maximum:** 1A
- **Maximum Voltage on RS485-REPEATER:** 1A @27.6V
- **Maximum Voltage on RS485-BMS:** 1A @27.6V

Batteries

- **Maximum Voltage Charge Adapted to Temperature**
- **Battery Charger**
- **Maximum Internal Resistance of Battery (Ri Max)**
- **Battery Shutdown Voltage**
- **Operating Temperature:** Varies
- **Isolation Class**
- **Consumption @ 27.6V Stand-by Maximum:**
- **Maximum Voltage on OUT 1:**

Product Usage Instructions

Power Supply

Ensure the power supply voltage is within the range of 19-30V for proper functioning of the control panel.

Operating Temperature

Operate the control panel within the specified temperature range to avoid any issues related to overheating or malfunctioning.

Battery Usage

Monitor the battery charge and ensure it is adapted to the temperature for efficient performance. Keep an eye on the battery shutdown voltage to prevent power disruptions.

Frequently Asked Questions (FAQ)





1. Q: What is the maximum weight capacity of the control panel?


A: The control panel can support a weight of up to 20 Kg.
2. Q: What is the recommended power supply voltage range?

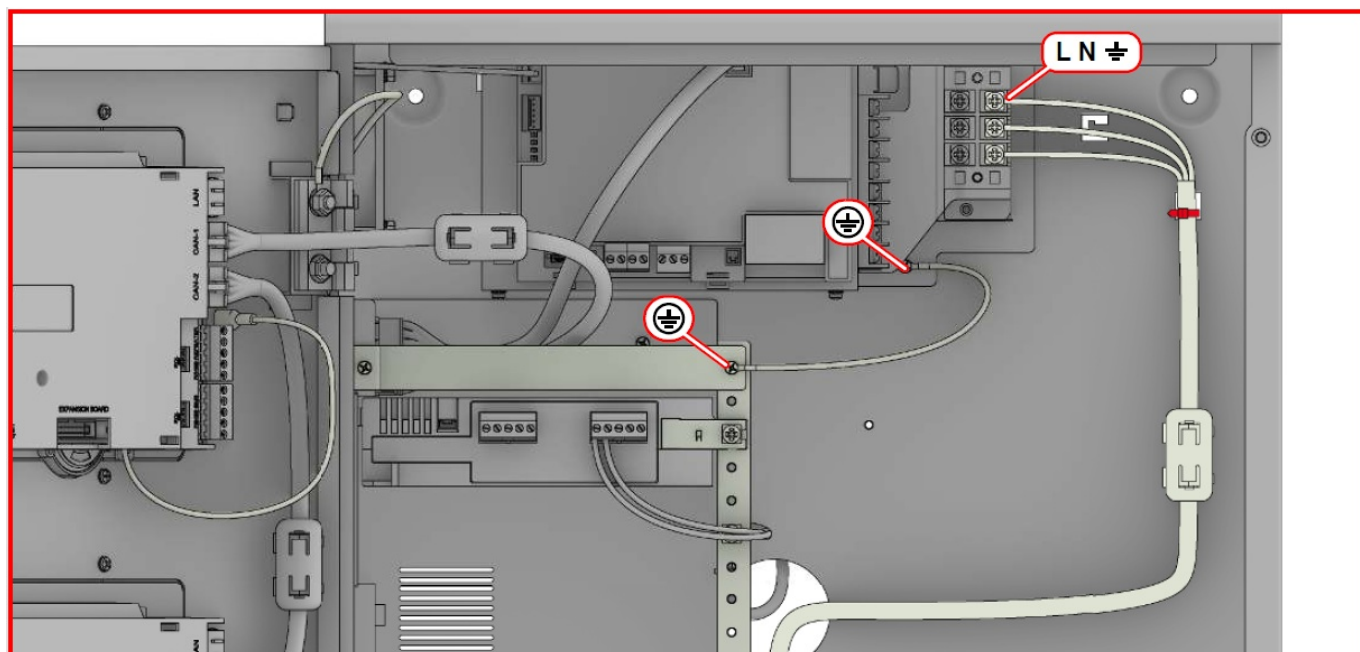
A: The recommended power supply voltage range is between 19-30V for optimal performance.
3. Q: How should I monitor the battery charge for the control panel?

A: Monitor the battery charge to ensure it is adapted to the temperature and keep an eye on the battery shutdown voltage to avoid power disruptions.

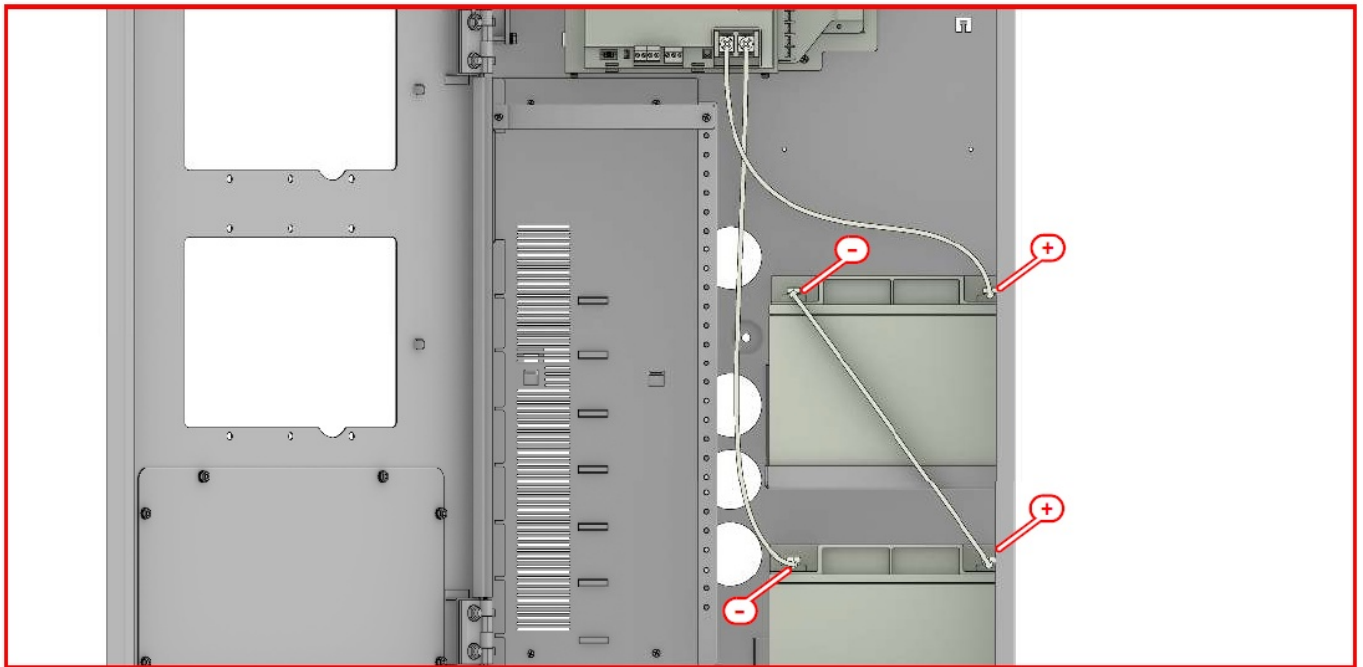
Technical specifications		
Dimensions		433 x 677 x 258 mm
Weight		20 Kg
Protection grade		IP30
Power supply voltage		19-30V $\overline{\text{---}}$
Operating temperature		-5°C +40°C
Consumption @ 27.6V	stand-by	130mA
	maximum	140mA
	mains fault	110mA
Maximum voltage on RS485-REPEATER		1A @27.6V $\overline{\text{---}}$
Maximum voltage on RS485-BMS		1A @27.6V $\overline{\text{---}}$
Power supply voltage		230V~ (+10% -15%) 115V~ (+10% -15%) 50/60 Hz

Maximum current draw from mains		5A @230V~ 8.5A @115V~
Nominal output voltage		26V  ±10%
Maximum output ripple		200mV pp
Maximum output current of the power group (I _{max b} according to EN54-4)		38A @230V~ 32A @115V~
Maximum current for external loads (I _{max a} according to EN54-4)		35A @230V~ 29A @115V~
I _{min}		100mA
Power factor (at full load)		0.95 @ 230V~ 0.99 @ 115V~
Overvoltage protection (% of the declared potential)		105 / 135
Overvoltage category		CAT II 2500 V
Overload protection		29 / 33 V
Batteries		2 x 12V 38Ah, NP38-12I 2 x 12 V 24 Ah, NPL24-12I 2 x 12 V 17 Ah, NP 17 -12-FR
Maximum voltage charge adapted to temperature		28V
Battery charger		3A
Maximum internal resistance of battery (R _i Max)		0.1Ohm
Battery shutdown voltage		19,5V
Operating temperature		-5°C +40°C
Isolation class		I
Consumption @ 27.6V	stand-by	20mA
	maximum	40mA
	mains fault	30mA
Maximum voltage on OUT 1		1.5A @27.6V 
Maximum voltage on OUT 2		1.5A @27.6V 
Maximum voltage on RELAY		5A, 30V 

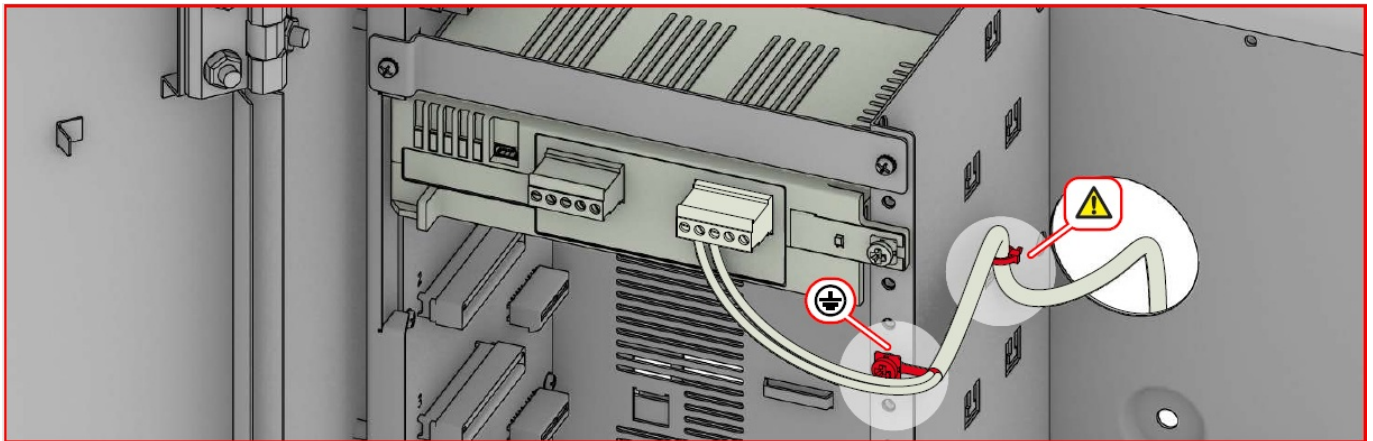
Power supply voltage		20-30 V 
Operating temperature		-5°C +40°C
Maximum number of devices managed by a loop		240
Consumption @ 27.6V	stand-by	35mA
	maximum	50mA
Maximum voltage on Loop-A		0.5A
Maximum voltage on Loop-B		0.5A



Mains and grounding connection

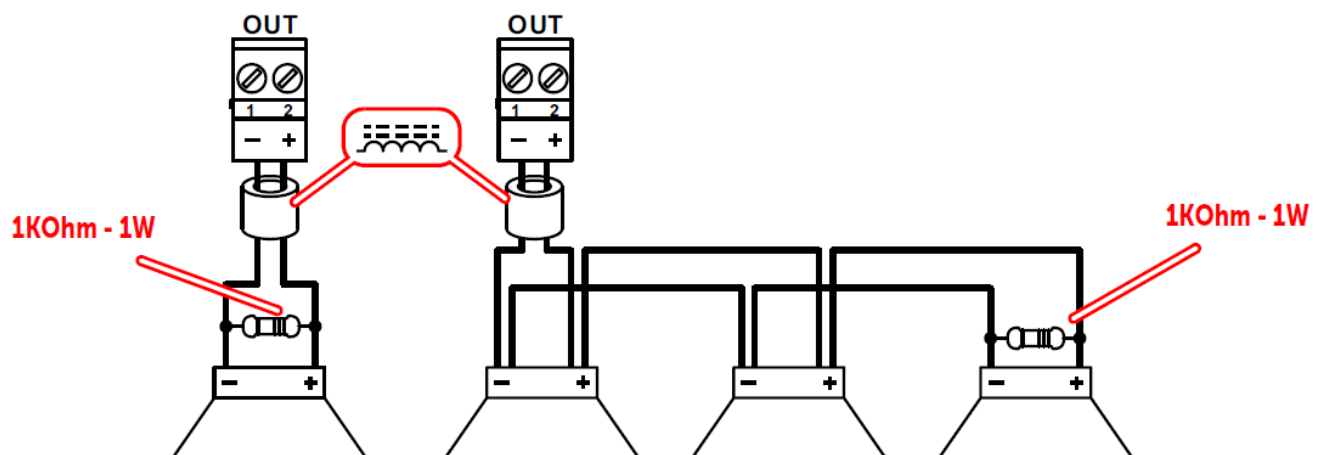


Batteries connection

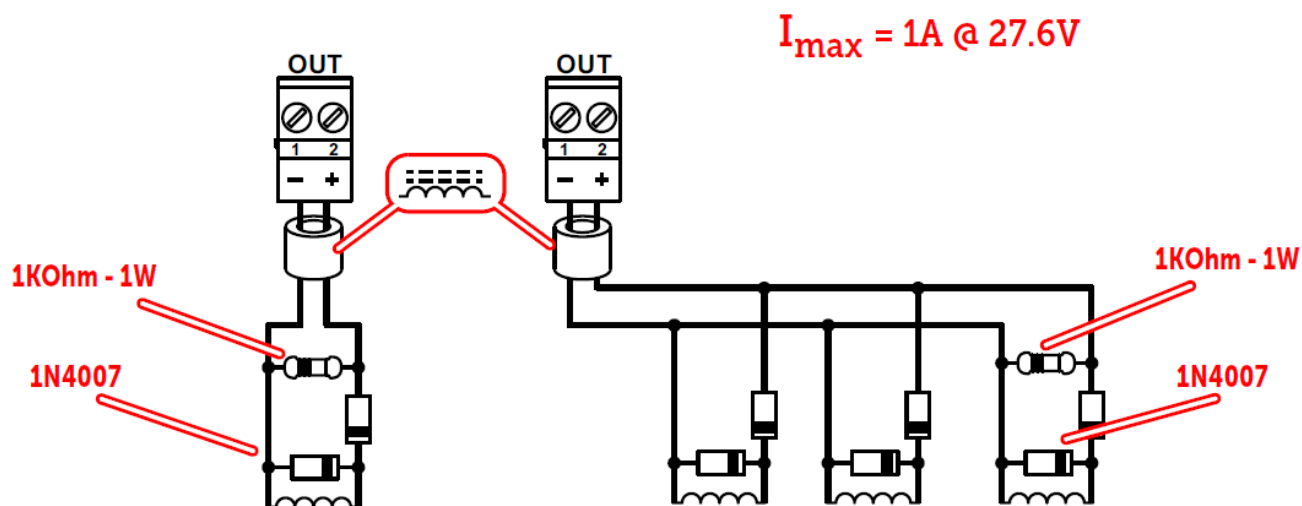


Cable entry

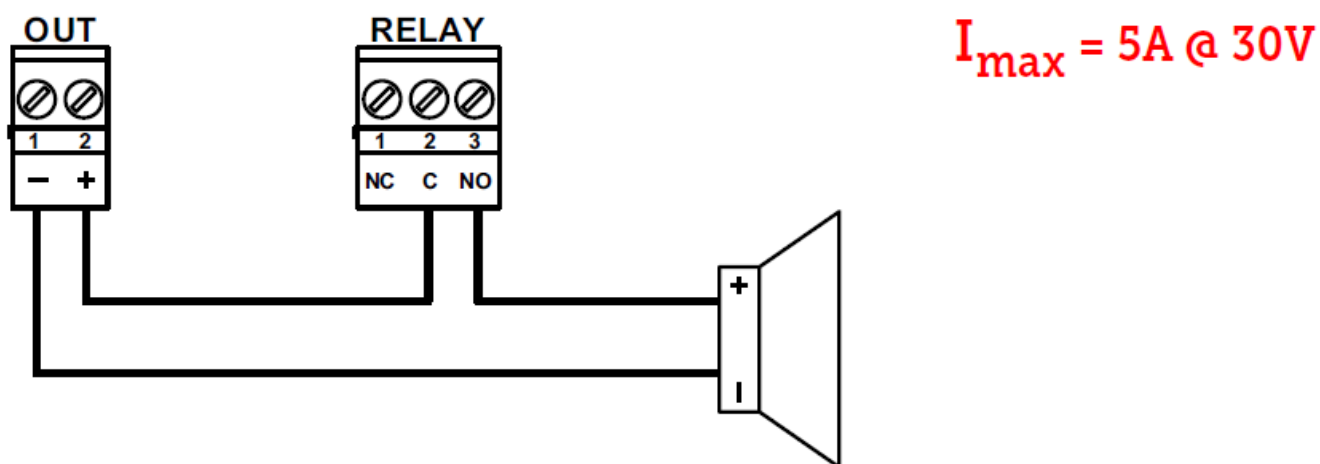
$$I_{\max} = 1A @ 27.6V$$



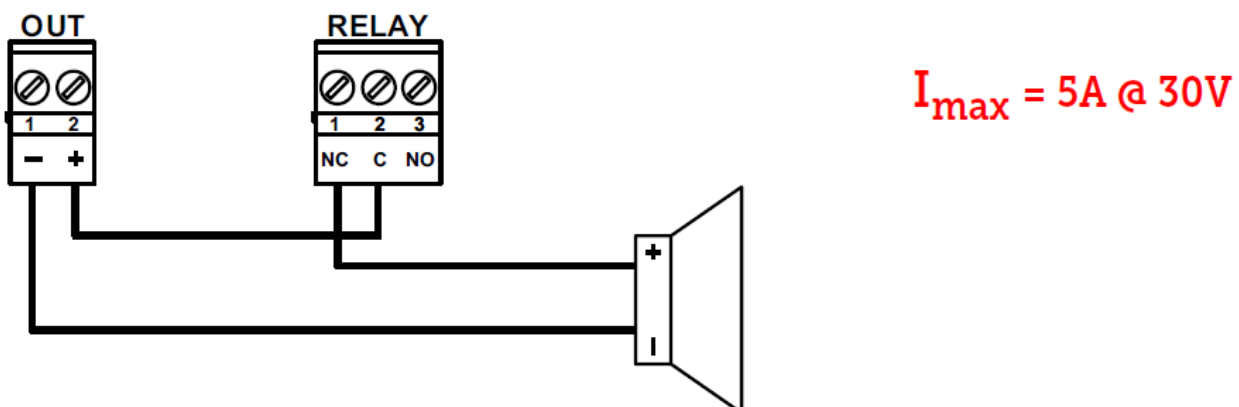
Connection of polarized devices (sirens, etc.) to OUT terminals



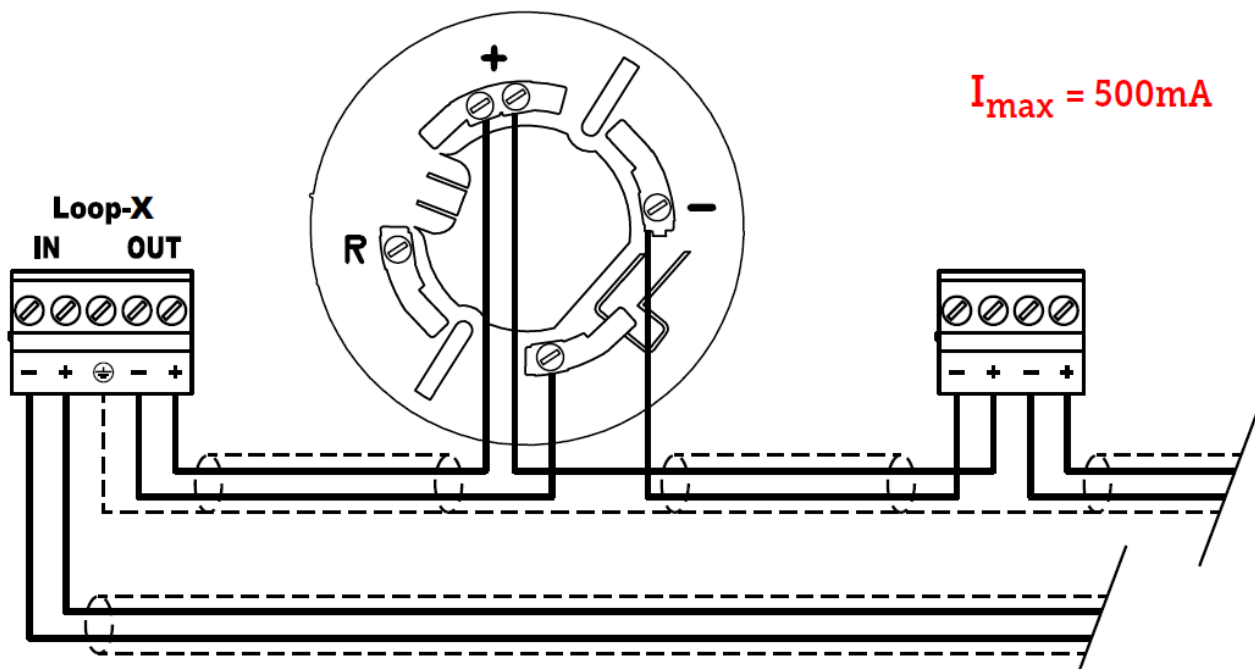
Connection of non-polarized devices (relays, coils, etc.) to OUT terminals



Relay connection as generic indication



Relay connection as fault signalling
(factory-assigned)



Loop connection



Isolation class		I
Terminal type	AC INPUT	ES3, PS3
	BATTERY	ES1, PS3
	RELAY	ES1, PS2
	OUT1, OUT2	ES1, PS2
	RS485-BMS, RS485-REPEATER	ES1, PS2
	CAN-IN, CAN-OUT	ES1, PS2
	TAMPER	ES1, PS1
	USB	ES1, PS1
	CR2032 (J2)	ES1, PS1
	RS232	ES1, PS1
	LOOP-A, LOOP-B	ES1, PS2
	ETHERNET	ES1, PS1

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

Directive 2014/53/EU Hereby, INIM Electronics S.r.l. declares that the Previdia Ultra control panels are in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. This product may be used in all EU Countries.

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 www.inim.it, 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 this manual.

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0051

INIM Electronics s.r.l.

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22

0051-CPR-2826

EN 54-2:1997 + A1:2006

EN 54-4:1997 + A1:2002 + A2:2006 EN 54-21:2006

EN 12094-1:2003

PREVIDIA-ULTRA216

PREVIDIA-ULTRA216R

PREVIDIA-ULTRA216D

Control and signalling panel with power-supply equipment, alarm transmission and fault signalling equipment, automatic electrical device for control and management of switch off and delay for fire detection and signalling in buildings and for gas extinguishing systems installed in buildings as part of a complete operating system.

Essential features		Performance
Performance in the event of fire		PASS
Power supply performance		PASS
Response delay (response time in the event of fire)		PASS
Transmission performance		PASS
Operating reliability		PASS
Durability of operating reliability:	Thermal resistance	PASS
	Vibration resistance	PASS
	Humidity resistance	PASS
	Electrical stability	PASS

Options provided in accordance with EN54-2	Performance
7.8 Output to fire alarm devices	PASS
7.9 Output to fire alarm routing equipment	PASS
7.10 Output to fire protection equipment	PASS
7.11 Delay on outputs	PASS
7.12 Co-incidence detection (Type A, B and C)	PASS
7.13 Alarm counter	PASS
8.3 Point fault signal	PASS
8.9 Output to remote fault or warning signalling devices	PASS
9.5 Addressable points out-of-service	PASS
10.0 Test condition	PASS
Options provided in accordance with EN12094-1	Performance
4.17 Delay of extinguishing signal	PASS
4.18 Signal representing the flow of extinguishing agent	PASS
4.19 Monitoring of the status of components	PASS
4.20 Emergency hold device	PASS
4.21 Control of flooding time	PASS
4.22 Initiation of secondary flooding	PASS
4.24 Triggering signals to equipment within the system	PASS
4.26 Triggering of equipment outside the system	PASS
4.27 Emergency abort device	PASS
4.28 Control of extended discharge	PASS
4.29 Release of the extinguishing media for selected flooding zones	PASS
Additional information according to EN 54-2	
About information required at point 12.2.1, see data contained in this manual.	
Additional information according to EN 54-4	
For the information required by 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: A Degree of protection: IP30 Flooding zones: up to 24 Zones from 1 a 24 for CO2, inert gas or halogenated hydrocarbons. Response delay activation condition: max 3s Response delay triggering of outputs: max 1s	



This symbol indicates to installer to refer to the instructions manual.

Warranty

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 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 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 be liable to the purchaser or any other person for any loss or damage whether direct or 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.

Limited 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.

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WEEE

Informative notice regarding the disposal of electrical and electronic equipment (applicable in countries with differentiated waste collection systems)

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.

Information about disposal of batteries and accumulators (applicable in Countries with separate collection systems)



This marking on batteries and/or their manual and/or their packaging, indicates that batteries of this products, at the end of their working life, should not be disposed of as unsorted municipal waste, but must be object of a separate collection. Where marked, the chemical symbols Hg, Cd o Pb indicate that the battery contains mercury, cadmium or lead above the reference levels of the directive 2006/66/EC. If batteries are not properly disposed of, these substances, together with other ones contained, can cause harm to human health and to the environment. To protect human health and the environment, to facilitate treatment and recycling of materials, separate batteries from other kind of waste and use the collection scheme stated in your area, in accordance to current laws. Before disposing of the above, it's appropriate to remove them from their holders avoiding to damage them or causing short circuits.

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Inim Electronics S.r.l.

ISO 9001 Quality Management certified by BSI with certificate number FM530352


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Documents / Resources

	<p>inim ULTRA216 Control Panel [pdf] Instruction Manual</p> <p>2024-06-13, 0051 22, 0051-CPR-2826, ULTRA216 Control Panel, ULTRA216, Control Panel, Panel</p>
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References

- [Inim Electronics](#)
- [User Manual](#)

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