UL-EU CERTIFICATE

Certificate No.
UL-EU-01334-EN

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19-12-2024

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Certificate Holder:
Inim Electronics s.r.l

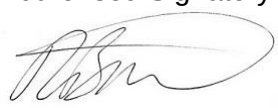
Address:
Via Dei Lavoratori 10,
Frazione Centobuchi,
63076 Monteprandone (Ap),
Italy.

Product:
Control and Indicating equipment for fire alarm system – PREVIDIA-Compact (230Vac).

Places of production:
Via Dei Lavoratori 10,
Frazione Centobuchi,
63076 Monteprandone (Ap),
Italy.

Standard:
EN54-2:1997+A1:2006
EN54-4:1997 +A1:2002 +A2:2006
EN12094-1:2003

Authorised Signatory:



Richard Bristow
Issued by UL International (UK) Ltd

This is to certify that representative samples of the Certified Product listed above have been investigated by Underwriters Laboratories to the Standard(s) indicated on this Certificate, in accordance with the UL Global Services Agreement and the UL-EU Mark Service Terms and Conditions (“Agreement”). The Certificate Holder is entitled to use the UL-EU Mark for the Certified Product listed on the certificate and manufactured at the production site(s) listed, in accordance with the terms of the Agreement. Only those products bearing the UL-EU Mark for Europe should be considered as being covered by UL’s UL-EU Mark Service. This Certificate shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.

UKAS PRODUCT CERTIFICATION
4705

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PREVIDIA-Compact series model variants details and ratings:

PREVIDIA-Compact series are the Control and Indicating equipment with power supply and electrical automatic control and delay device integrated for fire detection and fire alarm systems installed in buildings for fire alarm system. PREVIDIA-Compact series has total 14 model variants operating on 230Vac. The model's name designations are set as per the below labelling details:

Label Designation: **PREVIDIA-Czzzzzzc**											Power Supply Models (Non-Integrated)
Series Prefix	Number of loops		Mounting cabinet size		Zone LEDs[1]		Electrical automatic Control and Delay Device (E.C.D) [2]		Cabinet Color		
PREVIDIA-C	200	2 Loop panel (240 devices per loop)	S	Small Cabinet	Z	Zone LED indicators available	E	E.C.D Function available (Class A)	G	Grey	IPS24060G (For small cabinet size)
	100	1 Loop panel (240 devices per loop)							R	Red	
	050	1 Loop panel (64 devices per loop)	L	Large Cabinet	-	Zone LED indicators not available	-	E.C.D Function not available	D	Dark Grey	IPS24160G (For large cabinet size)

Note[1]: Only the models with "Z" in the name have Zone Indication LED board. Other models are without Zone Indication LED board.
Note[2]: Only the models with "E" in the name are integrated with electrical automatic control and delay device. Other models are without electrical automatic control and delay device. The E.C.D device is rated for Environment Class A: temperature range of - 5 °C to + 40 °C;

Optional Accessories:

- PREVIDIA-C-COM: Serial and IP module interface.
- PREVIDIA-REPc: Repeater panel without electrical automatic control and delay device. "c" represents color (white/red)
- PREVIDIA-REPEc: Repeater panel with electrical automatic control and delay function. "c" represents color (white/red)

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Power Supply Model ratings:

IPS24060G (For Small Cabinet CIE variants)	
Supply Voltage [Nominal]	230V AC (+10% / -15%)
D.C. output voltage range	18.5-27.8 V Dc
$I_{max\ A}$:	1.5 A
$I_{max\ B}$:	1.5 A
I_{min}:	0 A
$R_{i\ max}$:	2.7 Ω
Battery Voltage	2 X 12 V
Battery Capacity	7 Ah

IPS24160G (For Large Cabinet CIE variants)	
Supply Voltage [Nominal]	230V AC (+10% / -15%)
D.C. output voltage range	18.5-27.8 V Dc
$I_{max\ A}$:	4 A
$I_{max\ B}$:	4 A
I_{min}:	0 A
$R_{i\ max}$:	1 Ω
Battery Voltage	2 X 12 V
Battery Capacity	17 Ah

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Construction Product:

1. Control and indicating equipment for fire detection and fire alarm systems for buildings.
2. Power supply equipment for fire detection and fire alarm systems for buildings.
3. Electrical automatic control and delay device

Intended Use:

1. Fire Safety.
2. Fire Safety.
3. Components for use in gas extinguishing systems installed in buildings as a complete operating system.

The product is certified on the basis of:

i) S36210-D02-European Directive-Original

ii) Inspection and surveillance of factory production control by UL

iii) Being used in accordance with the supplier's installation instructions, and technical datasheet.

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Appendix UL-EU CERTIFICATE UL-EU-01334-EN

Standard: EN54-2 : 1997+A1:2006

Clause	Essential Characteristics of PREVIDIA-Compact	Performance
4	General requirements	Pass
5	General requirements for indications	Pass
6	The quiescent condition	Pass
7.1-7.7	The fire alarm condition	Pass
7.8	Output to fire alarm devices (option with requirements)	Pass
7.9.1	Output to fire alarm routing equipment (option with requirements)	N/A
7.9.2	Alarm confirmation input from fire alarm routing equipment (option with requirements)	N/A
7.10.1	Output to fire protection equipment – Output type A (option with requirements)	Pass
7.10.2	Output to fire protection equipment – Output type B (option with requirements)	Pass
7.10.3	Output to fire protection equipment – Output type C (option with requirements)	Pass
7.10.4	Fault monitoring of fire protection equipment	Pass
7.11	Delays to outputs (option with requirements)	Pass
7.12.1	Type A dependency (option with requirements)	N/A
7.12.2	Type B dependency (option with requirements)	N/A
7.12.3	Type C dependency (option with requirements)	N/A
8.1-8.2 &8.5-8.8	Fault Warning Condition	Pass
8.3	Fault signals from points	Pass
8.5	System Fault	Pass
8.9	Output to fault warning routing equipment (option with requirements)	N/A
9	Disabled condition	Pass
9.5	Disablement of addressable points	Pass
10	Test condition (Option with requirements)	Pass
12	Design requirements	Pass
13	Additional requirements for software-controlled control and indicating equipment	Pass
14	Marking	Pass
15.2	Functional tests (Fire alarm, Fault warning, Disabled condition)	Pass
15.4	Cold (operational) (-5ºC Class A or C)	Pass
15.5	Damp heat steady state (operational) Class A or C	Pass
15.6	Impact (operational)	Pass
15.7	Vibration, sinusoidal (operational) 0.1gn Class A	Pass
15.8.1 a	Main supply voltage variation	Pass
15.8.1 b	Main supply voltage dips and interruptions	Pass
15.8.1 c	Electrostatic discharges	Pass
15.8.1 d	Radiated electromagnetic field	Pass
15.8.1 e	Conducted disturbances induced by electromagnetic fields	Pass

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Standard: EN54-2 : 1997+A1:2006 (continued)

Clause	Essential Characteristics of PREVIDIA-Compact	Performance
15.8.1 f	Fast transient bursts	Pass
15.8.1 g	Slow high energy voltage surges	Pass
15.13	Supply Voltage variation	Pass
15.14	Damp heat steady state (endurance)	Pass
15.15	Vibration, sinusoidal (endurance) 0.5gn Class A	Pass

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Appendix UL-EU CERTIFICATE UL-EU-01334-EN

Standard: EN54-4:1997 +A1:2002 +A2:2006

Clause	Essential Characteristics of PREVIDIA-Compact	Performance
4	General requirements	Pass
5.1	Power supply from main source	Pass
5.2	Power supply from standby power source	Pass
5.3	Charger	Pass
5.4	Faults	Pass
6.1	Manufacturer's declaration	Pass
6.2	Mechanical design	Pass
6.3	Electrical design	Pass
7.1	User documentation	Pass
7.2	Design documentation	Pass
8	Marking	Pass
9.2	Functional tests	Pass
9.3	Test of charger and standby test	Pass
9.5	Cold (operational)	Pass
9.6	Damp heat, steady state (operational)	Pass
9.7	Impact (operational)	Pass
9.8	Vibration, sinusoidal (operational)	Pass
9.9a	Main supply voltage variation	Pass
9.9b	Main supply voltage dips and interruptions	Pass
9.9c	Electrostatic discharges	Pass
9.9d	Radiated electromagnetic field	Pass
9.9e	Conducted disturbances induced by electromagnetic fields	Pass
9.9f	Fast transient bursts	Pass
9.9g	Slow high energy voltage surges	Pass
9.14	Damp heat, steady state (endurance)	Pass
9.15	Vibration, sinusoidal (endurance)	Pass

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Standard: EN12094-1: 2003

Clause	Essential Characteristics of PREVIDIA-Compact	Performance
4.2	Environmental Class A	Pass
4.3	Signal processing and indication	Pass
4.4	Reception and processing of input signals	Pass
4.5	Transmission of extinguishing signal	Pass
4.6	Activation of alarm devices	Pass
4.7	Indication of the supply of power	Pass
4.8	Activated condition	N/A
4.9	Indication of activated condition	Pass
4.10	Released condition	Pass
4.11	Indication of released condition	Pass
4.12	Resetting of the activated condition and the released condition	Pass
4.13	Fault warning condition	Pass
4.14	Indication of fault warning condition	N/A
4.15	Disabled condition	N/A
4.16	Indication of disabled condition	N/A
4.17	Delay of extinguishing signal (Option with requirements)	Pass
4.18	Signal representing the flow of extinguishing agent (Option with requirements)	Pass
4.19	Monitoring of the status of components ((Option with requirements)	Pass
4.20	Emergency hold device (Option with requirements)	Pass
4.21	Control of flooding time (Option with requirements)	Pass
4.22	Initiation of secondary flooding (Option with requirements)	N/A
4.24	Triggering signals to equipment within the system (Option with requirements)	Pass
4.25	Extinguishing signals to spare cylinders (Option with requirements)	N/A
4.26	Triggering of equipment outside the system (Option with requirements)	Pass
4.27	Emergency abort device (Option with requirements)	Pass
4.28	Control of extended discharge (Option with requirements)	N/A
4.29	Release of the extinguishing media for selected flooding zones (Option with requirements)	N/A
4.30	Activation of alarm devices with different signals (Option with requirements)	Pass
5.1	Assessment of the design requirements	Pass
5.2	Assessment of the mechanical design	Pass
5.3	Assessment of the manual controls	Pass
5.4	Visual indicators	Pass
5.5	Audible indicators	Pass
5.6	Electrical design of components	Pass
5.7	Circuit design	Pass

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Standard: EN12094-1: 2003

Clause	Essential Characteristics of PREVIDIA-Compact	Performance
5.7.2	Terminal blocks for power rating	Pass
6.2	Software design	Pass
6.3	Program monitoring	Pass
6.4	Storage of program and data	Pass
6.5	Monitoring of memory contents	Pass
6.6	Software documentation	Pass
6.7	Operation of the e.c.d. in the event of a system fault	Pass
7	Marking	Pass
8	Documentation	Pass
9.1	General test requirements	Pass
9.2	Functional tests	Pass
9.3	Environmental tests	Pass
10	Evaluation of conformity	Pass

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Appendix UL-EU CERTIFICATE UL-EU-01334-EN

The UL-EU Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.



The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this UL-EU Certificate.

PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at www.ul.com.

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