



DECLARATION OF PERFORMANCE

No. 0051-CPR-1863

Unique identification code of the product-type:

PREVIDIA216

Model/s:

PREVIDIA216, PREVIDIA216R

Intended use/es

**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**

Manufacturer:

INIM ELECTRONICS S.R.L.
VIA DEI LAVORATORI 10 - FRAZIONE CENTOBUCHI
63076 MONTEPRANDONE (AP) - ITALY
tel.: +39 0735 705007, fax. +39 0735 704912
web: www.inim.biz, e-mail: info@inim.biz

System/s of AVCP:

System 1

Harmonized standard/s:

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

Notified Body/ies:

IMQ S.p.A., No. 0051

Declared performance/es:

| Essential Characteristics | Performance | Harmonized technical specification | § | Note |
|--|-------------|------------------------------------|------|------|
| Performance under fire conditions | | | | |
| General requirements | PASS | EN 54-2:1997 + A1:2006 | 4 | |
| General requirements for indications | PASS | | 5 | |
| Fire alarm condition | PASS | | 7 | |
| Signal processing and indication | PASS | | 4.3 | |
| Reception and processing of input triggering signals | PASS | EN 12094-1:2003 | 4.4 | |
| Transmission of extinguishing signal | PASS | | 4.5 | |
| Activation of alarm devices | PASS | | 4.6 | |
| Delay of extinguishing signal (option with requirements) | PASS | | 4.17 | |
| Signal representing the flow of extinguishing agent (option with requirements) | PASS | | 4.18 | |
| Monitoring the status of components (option with requirements) | PASS | | 4.19 | |
| Emergency hold device (option with requirements) | PASS | | 4.20 | |
| Control of flooding time (option with requirements) | PASS | | 4.21 | |
| Initiation of secondary flooding (option with requirements) | PASS | | 4.22 | |



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| Triggering signal to equipment within the system (option with requirements) | PASS | | 4.24 | |
| Triggering of equipment outside the system (option with requirements) | PASS | | 4.26 | |
| Emergency abort device (option with requirements) | PASS | | 4.27 | |
| Control of extended discharge (option with requirements) | PASS | | 4.28 | |
| Release of the extinguishing media for selected flooding zones (option with requirements) | PASS | | 4.29 | |
| Activation of alarm devices with different signals (option with requirements) | PASS | | 4.30 | |
| Performance of power supply | | | | |
| General requirements | PASS | | 4 | |
| Functions | PASS | EN 54-4:1997 + A1:2002 + A2:2006 | 5 | |
| Materials, design and manufacture | PASS | | 6 | |
| Performance of transmission | | | | |
| General requirements | PASS | EN 54-21:2006 | 4 | |
| Functional requirements | PASS | | 5 | |
| Response delay (response time to fire) | | | | |
| Reception and fire signals | PASS | | 7.1 | |
| Output of the fire alarm condition | PASS | | 7.7 | |
| Output to the fire alarm device (option with requirements) | PASS | | 7.8 | |
| Control of fire alarm routing equipment (option with requirements) | PASS | | 7.9 | |
| Output to fire alarm routing devices (option with requirements) | PASS | | 7.9.1 | |
| Alarm confirmation input from fire alarm routing equipment (option with requirements) | PASS | | 7.9.2 | |
| Outputs to fire protection equipment (option with requirements) | PASS | | 7.10 | |
| Output type A (option with requirements) | PASS | | 7.10.1 | |
| Output type B (option with requirements) | PASS | | 7.10.2 | |
| Output type C (option with requirements) | PASS | EN 54-2:1997 + A1:2006 | 7.10.3 | |
| Fault monitoring of fire protection equipment (option with requirements) | PASS | | 7.10.4 | |
| Delays to outputs (option with requirements) | PASS | | 7.11 | |
| Dependencies on more than one signal (option with requirement) | PASS | | 7.12 | |
| Type A dependency (option with requirements) | PASS | | 7.12.1 | |
| Type B dependency (option with requirements) | PASS | | 7.12.2 | |
| Type C dependency (option with requirements) | PASS | | 7.12.3 | |
| Alarm counter (option with requirements) | PASS | | 7.13 | |
| Activated condition | PASS | EN 12094-1:2003 | 4.8 | |
| Operational reliability | | | | |
| General requirements | PASS | | 4 | |
| General requirements for indications | PASS | | 5 | |
| The quiescent condition | PASS | | 6 | |
| The fire alarm condition | PASS | | 7 | |
| Fault warning condition | PASS | | 8 | |
| Fault signals from points (option with requirements) | PASS | EN 54-2:1997 + A1:2006 | 8.3 | |
| Output to warning routing equipment (option with requirements) | PASS | | 8.9 | |
| Disabled condition | PASS | | 9 | |
| Disabling of addressable points (option with requirements) | PASS | | 9.5 | |
| Test condition (option with requirements) | PASS | | 10 | |



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| Standardized input/output interface (option with requirements) | NPD | | 11 | |
| Design requirements | PASS | | 12 | |
| Additional design requirements for software controlled control and indicating equipments | PASS | | 13 | |
| Marking | PASS | | 14 | |
| General requirements | PASS | | 4 | |
| Functions | PASS | | 5 | |
| Materials, design and manufacture | PASS | EN 54-4:1997 + A1:2002 + A2:2006 | 6 | |
| Documentation | PASS | | 7 | |
| Marking | PASS | | 8 | |
| Functional requirements | PASS | | 4 | |
| Design requirements | PASS | EN 12094-1:2003 | 5 | |
| Additional design requirements for software controlled CIE | PASS | | 6 | |
| Durability of operational reliability: temperature resistance | | | | |
| Cold (operational) | PASS | EN 54-2:1997 + A1:2006 | 15.4 | |
| | PASS | EN 54-4:1997 + A1:2002 + A2:2006 | 9.5 | |
| | PASS | EN 54-21:2006 | 10.4 | |
| | PASS | EN 12094-1:2003 | 9 | |
| Durability of operational reliability: vibration resistance | | | | |
| Impact (operational) | PASS | EN 54-2:1997 + A1:2006 | 15.6 | |
| | PASS | EN 54-4:1997 + A1:2002 + A2:2006 | 9.7 | |
| | PASS | EN 54-21:2006 | 10.6 | |
| | PASS | EN 12094-1:2003 | 9 | |
| Vibration, sinusoidal (operational) | PASS | EN 54-2:1997 + A1:2006 | 15.7 | |
| | PASS | EN 54-4:1997 + A1:2002 + A2:2006 | 9.8 | |
| | PASS | EN 54-21:2006 | 10.7 | |
| | PASS | EN 12094-1:2003 | 9 | |
| Vibration, sinusoidal (endurance) | PASS | EN 54-2:1997 + A1:2006 | 15.15 | |
| | PASS | EN 54-4:1997 + A1:2002 + A2:2006 | 9.15 | |
| | PASS | EN 54-21:2006 | 10.11 | |
| | PASS | EN 12094-1:2003 | 9 | |
| Durability of operational reliability: electrical stability | | | | |
| Electromagnetic compatibility (EMC), immunity tests (operational) | PASS | EN 54-2:1997 + A1:2006 | from 15.8 to 15.13 | |
| | PASS | EN 54-4:1997 + A1:2002 + A2:2006 | from 9.9 to 9.13 | |
| | PASS | EN 54-21:2006 | 10.8 and 10.9 | |
| | PASS | EN 12094-1:2003 | 9 | |
| Durability of operational reliability: humidity resistance | | | | |
| Damp heat, steady state (operational) | PASS | EN 54-2:1997 + A1:2006 | 15.5 | |
| | PASS | EN 54-4:1997 + A1:2002 + A2:2006 | 9.6 | |
| | PASS | EN 54-21:2006 | 10.5 | |
| | PASS | EN 12094-1:2003 | 9 | |
| Damp heat, steady state (endurance) | PASS | EN 54-2:1997 + A1:2006 | 15.14 | |
| | PASS | EN 54-4:1997 + A1:2002 + A2:2006 | 9.14 | |
| | PASS | EN 54-21:2006 | 10.10 | |
| | PASS | EN 12094-1:2003 | 9 | |

Modules installable in PREVIDIA216 and PREVIDIA216R:

- IFM24160 CAN power-supply module
- IFM2L CAN module with 2 loops
- IFMNET CAN module for Hornet network connection
- IFM4R CAN module with 4 relays
- IFM4IO CAN module with 4 I/O
- IFMDIAL CAN dialler module
- IFM16IO CAN module with 16 I/O
- IFMLAN CAN LAN module
- IFMEXT CAN extinguishant module
- FPMCPU CPU module



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|--|---|
| FPMLLED | LED module |
| FPMLLEDPRN | LED module with printer |
| FPMEXT | LED module for extinguishant module |
| Mechanical parts usable with PREVIDIA216 and PREVIDIA216R: | |
| FPMNUL | blind-plate module |
| PRCAB | spare cabinet |
| PRCABR | spare cabinet red |
| PRREP | metal box for FPMCPU assembly in repeater configuration |
| PRCABSP | spacer for back cabinet |
| PRCABSPR | spacer for back cabinet red colour |

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

A handwritten signature in black ink, appearing to read 'Baldovino Ruggieri'.

Baldovino Ruggieri
(Managing Director)

At Monteprandone, on 26/02/2020

