



CERTIFICATE OF CONSTANCY OF PERFORMANCE

0051 – CPR – 2116

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation, or CPR), this Certificate applies to the construction product

CONTROL AND INDICATING EQUIPMENT WITH INTEGRATED ELECTRICAL AUTOMATIC CONTROL AND DELAY DEVICE (optional)

Models: **ELITE-FIRE ; ELITE-FIRE/S ; EX-LITE + EX-NET**

Trademark: **SV SISTEMI DI SICUREZZA**

Other information: **see ANNEX**

Produced by:
SV SISTEMI DI SICUREZZA S.r.l.
Via Matteotti 55/57
24050 Bergamo Grassobbio (BG), Italy

In the manufacturing plant(s):
PI.M0009C

This Certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard(s)

**EN 54-2:1997 + A1:2006;
EN 12094-1:2003**

under system **1** are applied and that **the product fulfills all the prescribed requirements set out above.**

This certificate was first issued on 2020-11-09 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

ING. V. BAGGIO
CPR TECHNICAL DIRECTOR

Milan, 2020-11-09

This Certificate was issued by IMQ S.p.A., a Notified Body according to Regulation (EU) No. 305/2011.

IMQ S.p.A. Identification Number is: 0051.

ANNEX

0051–CPR–2116

Model **ELITE-FIRE**

Configuration:

The product consists of a grey metallic enclosure (600 mm x 400 mm x 250 mm) with IP30 degree of protection. Internally it is fitted with the following main parts fully configurable:

- Control panel type MASTERLCD (PCB Rev. 03);
- CPU board type NANOCPU (PCB Rev. 2A);
- CPU board type NANOCPU (PCB Rev. 2), optional, if less than 512 detectors or manual call points are used;
- Housing board for CPU board, type NANOBUS (PCB Rev. 2);
- Housing board type EXMICRO (PCB Rev. 1);
- Output board type EX8RO (PCB Rev. 02);
- Output board type EX6SO (PCB Rev. 1.0h);
- Loop board type EXLOOP-E (PCB Rev. 3), optional, if input board type EX8SI or EX2GSI is used;
- Input board type EX8SI (PCB Rev. 02), optional, if input board type EXLOOP-E or EX2GSI is used;
- Input board type EX2GSI (PCB Rev. 4), optional, if input board type EX8SI or EXLOOP-E is used;
- Extinction command board type EX6EV-C, combination of boards type EX6EV (PCB Rev. 03) + EX8SI (PCB Rev. 02), optional, up to 8 maximum;
- Input/Output board type EX6EV (PCB Rev. 03), optional;
- Digital input/Output board type EX8D I/O (PCB Rev. 01), optional;
- Interface board type EXMULTIBUS (PCB Rev. 2), optional;
- Display touch screen type MODLCD (PCB Rev. 3);
- Supplementary acoustic local sounder trademark MENVIER CSA type FLASHNI.

Maximum number of board that can be installed: 4, for each enclosure.

Maximum number of board managed: 120, in 30 enclosure minimum.

The Control and Indicating Equipment is also provided of the following external device, optional:

- Remote input/output expansion model EXREMOTE PANEL with integrated Power Supply Equipment (see configuration on page No. 2), up to 16 maximum;
- Remote control panel model EXRGR (PCB Rev. 03), up to 16 maximum.

The remote input/output expansion model EXREMOTE PANEL with integrated Power Supply Equipment consists of a metal enclosure (2000 mm x 600 mm x 400 mm), containing:
Power supply section (already certified according to the standard EN 54-4:1997 + A1:2002 + A2:2006):

- No. 2 Power supply trademark TDK-Lambda, type SWS600L-24 rated 24 V (No. 1 Power supply used for self-consumption of the board used, for external devices and charger battery; No. 1 power supply used as a redundant power supply);
- No. 1 System battery controller board trademark SV SISTEMI DI SICUREZZA, type EXPSU20 (PCB Rev. 3);
- No. 1 LED board type EXPSU20-LED (PCB Rev. 1);
- No. 1 Display touch screen type MODLCD (PCB Rev. 3), optional;
- No. 2 Allocable batteries rated 12 V – 55 Ah;

and fully configurable by following parts:

- Housing board type CANBUS (PCB Rev. 2);
- Housing board for LCD, type FRBUS (PCB Rev. 2);
- Output board type EX8RO (PCB Rev. 02);
- Output board type EX6SO (PCB Rev. 1.0h);
- Loop board type EXLOOP-E (PCB Rev. 3);
- Input board type EX8SI (PCB Rev. 02);
- Input board type EX2GSI (PCB Rev. 4);
- Extinction command board type EX6EV-C, combination of boards type EX6EV (PCB Rev. 03) + EX8SI (PCB Rev. 02), up to 8 maximum;
- Input/Output board type EX6EV (PCB Rev. 03);
- Digital input/Output board type EX8D I/O (PCB Rev. 01);
- Interface board type EXMULTIBUS (PCB Rev. 2);
- Display touch screen type MODLCD (PCB Rev. 3);
- Supplementary acoustic local sounder trademark MENVIER CSA type FLASHNI.

Maximum number of board that can be installed: 20

Model **ELITE-FIRE/S**

Configuration:

As model **ELITE-FIRE** but with a steel enclosure.

Model **EX-LITE + EX-NET**

Configuration:

As model **ELITE-FIRE** but with the same boards and display divided into two separate devices:

- Panel model **EX-LITE** in metal enclosure (150 mm x 280 mm x 125 mm), containing:
 - Control panel type MASTERLCD (PCB Rev. 03),
 - CPU board type NANOCPU (PCB Rev. 2A);
 - CPU board type NANOCPU (PCB Rev. 2), optional, if less than 512 detectors or manual call points are used;
 - Housing board for CPU board, type NANOBUS (PCB Rev. 2);
- Remote panel model **EX-NET** in metal enclosure (600 mm x 400 mm x 250 mm). Internally it is fitted with the following main parts fully configurable:
 - Housing board type EXMICRO (PCB Rev. 1)
 - Output board type EX8RO (PCB Rev. 02);
 - Output board type EX6SO (PCB Rev. 1.0h);
 - Loop board type EXLOOP-E (PCB Rev. 3), optional, if input board type EX8SI or EX2GSI is used;
 - Input board type EX8SI (PCB Rev. 02), optional, if input board type EXLOOP-E or EX2GSI is used;
 - Input board type EX2GSI (PCB Rev. 4), optional, if input board type EX8SI or EXLOOP-E is used;
 - Extinction command board type EX6EV-C, combination of boards type EX6EV (PCB Rev. 03) + EX8SI (PCB Rev. 02), optional, up to 8 maximum;
 - Input/Output board type EX6EV (PCB Rev. 03), optional;
 - Digital input/Output board type EX8D I/O (PCB Rev. 01), optional;
 - Interface board type EXMULTIBUS (PCB Rev. 2), optional;
 - Display touch screen type MODLCD (PCB Rev. 3).

Maximum number of board that can be installed: 4, for each enclosure.

Maximum number of board managed: 120, in 30 enclosure minimum.

The Control and Indicating Equipment is also provided of the following external device, optional:

- Remote input/output expansion model EXREMOTE PANEL with integrated Power Supply Equipment, up to 16 maximum;
- Remote control panel model EXRGR (PCB Rev. 03), up to 16 maximum.

Technical Characteristics

- Number of zone: 1 ÷ 99 (32 detectors and/or manuals call points for each zone);
- Hardware identification of the microcontroller (U9) used on the CPU board type NANOCPU: NXP, LPC1778FBD208;
- Firmware identification of the microcontroller (U9) used on the CPU board type NANOCPU: 2.1

List of optional functions with requirements (EN 54-2)

- 7.8 Output to fire alarm device
- 7.11 Delay to outputs
- 7.12 Dependencies on more than one alarm signal – Type C
- 7.13 Alarm counter
- 8.3 Fault signals from points
- 9.5 Disabling of addressable points
- 10 Test condition
- 11 Standardized input/output interface

List of optional functions with requirements (EN 12094-1)

- 4.17 Delay of extinguishing signal
- 4.18 Signal representing the flow of extinguishing agent
- 4.19 Monitoring of the status of components
- 4.20 Emergency hold device
- 4.23 Manual only mode
- 4.24 Triggering signals to equipment within the system (by means of the board type EX6EV or EX6SO)
- 4.25 Extinguishing signals to spare cylinders
- 4.26 Triggering of equipment outside the system
- 4.27 Emergency abort device
- 4.29 Release of the extinguishing media for selected flooding zones
- 4.30 Activation of alarm devices with different signals