



Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

System Description – the Fire and Gas System Model Designation: FGP05

Approval Guide Listing: See page 2.

PROMEL srl
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This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

<i>Approval Standards</i>	<i>Date</i>	<i>Other Standards</i>	<i>Date</i>
<i>Class Number</i>		<i>Organization, Designation</i>	
3010	September 2014	ANSI/ NFPA 72	2013

Original Approval Job Identification:0003055730

Approval Granted: August 26, 2016

Related Report:

Subsequent Revisions:

To verify the availability of the Approved product, please refer to www.approvalguide.com


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26 August 2016

Date



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Fire Protection Electrical Signaling Signaling Systems (Fire) Local Protective Signaling Local Protective Signaling

Fire Protection Electrical Signaling Automatic Releases for Extinguishing Systems and Other Fire Protection Equipment

Model PROMEL FGP05 Fire Fighting configurable control system provides functions to process fire alarms from FM Approved initiating devices such as heat [RoR] detectors, UV/IR flame detectors and/or manual pull stations. The system is composed of a combination of cards installed in a unit suitable for mounting on a 12 slot (Rack 3U) or 24 slot (Rack 6U) standard 19" rack. The unit minimum configuration is: one FGP05-PS power supply card, one FGP05-CPUM processing card and one FGP05-FP front panel assembly with keyboard and display user interface. I/O cards are designed to manage analog input signals, 4-20mA (FGP05-AI420), digital input signals (FGP05-DI14), digital output signals (FGP05-DO14). Additional service cards can be installed to provide digital output signals to third party FM Approved panels (FGP05-DO14R) or information via Serial or Network protocols (FGP05-CEB). Below are available FGP05 boards with their capabilities:

Board	Input Voltage	Output Voltage	No. of channels per board	Max No. of channels per System	Max current per loop	Max loop current per board	Line integrity Check
Overall System	24 Vdc	24 Vdc	N/A	N/A		8A	N/A
FGP05-PS	24 Vdc	N/A	2	4	N/A	8A	yes
FGP05-AI420	N/A	24Vdc	6	70	62mA	1A	yes
FGP05-DI14	f.v.c.	N/A	14		N/A	N/A	yes
FGP05-DO14	24Vdc	N/A	14	50	2A	N/A	yes
FGP05-DO14R	0-40Vdc	f.v.c	14		3A	N/A	yes
FGP05-TPM	N/A	n.a	14	N/A	N/A	N/A	N/A

Firmware FM1.3, software 1.0, operating temperature of -5° to 60 °C. System configuration is engineered and developed by PROMEL according to customer's specifications and to NFPA72 requirements.

The FGP05 can be integrated in control panel cabinets or enclosures suitable for its correct working environment, where accepted by the authority having jurisdiction in the installation country. The FGP05 is designed to work in indoor dry area. It must be installed in a controlled location or having key operated door. The door must have a window to allow visual access to the display. Enclosures other than NEMA 1 are not under the scope of this Approval.

Operating Voltage: 24 V dc ±15%; each power supply card generates all internal voltage distribution by an input 24Vdc external FM Approved power supply. All devices and appliances must be FM Approved. If more Power Supply units are necessary, they must be connected to the same ground.

The 120, 240 Vac 50, 60Hz input power supply unit is not part of the shipped product. The selected unit must be NRTL ANSI/UL 1481 certified and must include a battery backup with capacity of 120Ah with 24hour operation in case of power loss. The compatible Power Supply Units suitable for applications covered by this Certification include LaMarche Mod A12B-15-24V-A1-12LR-X Filtered Battery Charger, 15 Amp DC Output, 24 Volt DC Output, 60 HZ Input, 120 Vac Input, Single Phase Input, 12 VRLA Cells U.L. 1481 Listed Unit with P24B-24-50A07-2 GNB Absolyte 24V 160AH Battery Systems.

The Rack6U System's fault tolerance capability is accomplished with two FGP05-PS cards. Together they keep the System working if the other fails.



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FGP05-AI420 Analog input loop card will support field monitoring instruments such as pressure transmitters or UV/IR flame detectors. Compatible units include: Rosemount - 3051TG pressure transmitters.

FGP05-DI14 cards supervise all digital Input circuits. The compatible instruments are: Crouse Hinds Mod. EFDC manual pull station, GO Switch – 31 limit switch, Heat Detector Fenwal/12-X27121-000-140.

FGP05-DO14 signaling and releasing circuit card supports compatible Stahl - YL60 beacons. Agent release compatible solenoid valves include Parker Model 1216SN1GL00N0C11C2 and Magnet-Schultz Model G TCE. Operator Access permissions can be set to different levels with the access password tool.



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