

PMM-3C, PMM-3CP

Intelligent Monitor Modules

General

Three different monitor modules are available for Protectwell's PTW-3300 and PTW-3300S Fire Alarm Control Panels (FACPs) for a variety of applications. Monitor modules supervise a circuit of dry-contact input devices, such as conventional heat detectors and pull stations, or monitor and power a circuit of two-wire smoke detectors (PMM-3CP).

PMM-3C is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides either a two-wire or four-wire fault-tolerant Initiating Device Circuit (IDC) for normally-open-contact fire alarm and supervisory devices. The module has a panel-controlled LED indicator.

PMM-3CP allows intelligent panels to interface and monitor two-wire conventional smoke detectors. It transmits the status (normal, open, or alarm) of one full zone of conventional detectors back to the control panel. All two-wire detectors being monitored must be UL compatible with this module. The status of the LED on the module is controlled by the panel.



Features

PMM-3C Monitor Module

- Built-in type identification automatically identifies this device as a monitor module to the control panel.
- Powered directly by two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry of address: 01 – 159 on FlashScan loops; 01 – 99 on CLIP loops.
- LED flashes green during normal operation (programmable option) and latches on steady red to indicate alarm.

PMM-3C APPLICATIONS

Use to monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally open dry-contact alarm activation devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A 47K Ohm End-of-Line Resistor (provided) terminates the Style B circuit. No resistor is required for supervision of the Style D circuit.

PMM-3C SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.0 mA (LED on).

Average operating current: 500 μ A (LED flashing), 1 communication every 5 seconds, 47k EOL.

Maximum IDC wiring resistance: 40 Ohms.

Maximum IDC Voltage: 9.5 Volts.

EOL resistance: 47K Ohms.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% non-condensing.

Dimensions: 124.6mm (L) x 124.6mm (W) x 35.6mm(H) (with the mounting plate). Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

Weight: 5.5 ounces (155g)

PMM-3CP Interface Module

- Supports compatible two-wire smoke detectors.
- Supervises IDC wiring and connection of external power source.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry entry of address: 01 – 159 on FlashScan loops, 01 – 99 on CLIP loops.
- LED flashes during normal operation; this is a programmable option.
- LED latches steady to indicate alarm on command from control panel.

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PMM-3C, PMM-3CP

Intelligent Monitor Modules

The PMM-3CP Interface Module is intended for use in intelligent addressable systems, where the individual address of each module is selected using built-in rotary switches. This module allows intelligent panels to interface and monitor two wire conventional smoke detectors. It transmits the status (normal, open, or alarm) of one full zone of conventional detectors back to the control panel. All two-wire detectors being monitored must be UL compatible with the module.

PMM-3CP APPLICATIONS

Use the PMM-3CP to monitor a zone of two-wire smoke detectors. The monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A End-of-Line Resistor (provided) terminates the end of the Style B or D (class B or A) circuit. Install ELR across terminals 8 and 9 for Style D application.

PMM-3CP OPERATION

Each PMM-3CP uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

PMM-3CP SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC.

Maximum current draw: 3.0 mA (LED on).

Maximum IDC wiring resistance: 25 Ohms.

Average operating current: 350µA max., 1 communication every 5 seconds.

EOL resistance: 3.9K Ohms.

External supply voltage (between Terminals T10 and T11):

- DC voltage: 24 volts power limited.
- Ripple voltage: 0.1 Volts RMS maximum.
- Current: 90 mA per module maximum.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% non-condensing.

Dimensions: 124.6mm (L) x 124.6mm (W) x 35.6mm (H). Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

Weight: 5.6 ounces (160g).

Installation

PMM-3C, PMM-3CP modules mount directly to a standard 4" (10.16 cm) square, 2.125" (5.398 cm) deep, electrical box. They may also be mounted to the SMB500 surface-mount box. Mounting hardware and installation instructions are provided with each module. All wiring must conform to applicable local codes, ordinances, and regulations. These modules are intended for power-limited wiring only.

Architectural/Engineering Specifications

In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S24647
- **CCCF.**

Product Line Information

PMM-3C: Monitor module.

PMM-3CP: Monitor module, two-wire detectors.