

## Installation Manual: PAD100-MIM Micro Input Module

## NOTICE TO THE INSTALLER

This manual provides an overview and the installation instructions for the PAD100-MIM module. This module is only compatible with addressable fire systems that utilize the PAD Addressable Protocol.

All terminals are power limited and should be wired in accordance with the requirements of NFPA 70 (NEC) and NFPA 72 (National Fire Alarm Code). Failure to follow the wiring diagrams in the following pages will cause the system to not operate as intended. For further information, refer to the control panel installation instructions.

The module shall only be installed with listed control panels. Refer to the control panel installation manual for proper system operation.

## 1. Description

The PAD100-MIM is used to monitor the status of an initiating device(s) that contain a normally open set of dry contacts. The module is enclosed in a plastic case to protect against inadvertent shorts and ground faults. The case can be mounted using a single screw. Generally the PAD100-MIM is used to monitor pull stations and other devices where the module is installed in an electrical box or enclosure behind the device being monitored.

The PAD100-MIM includes one red LED to indicate the module's status. In normal condition, the LED flashes when the device is being polled by the control panel. When an input is activated, the LED will flash at a fast rate. If the LED blink has been disabled via the programming software in a normal condition the LED of the device will be off. All other conditions remain the same.

## 2. Setting the Address

All PAD protocol detectors and modules require an address prior to connection to the panel's SLC loop. Each PAD device's address (i.e., detector and/or module) is set by changing the dip switches located on the device. PAD device addresses are comprised of a seven (7) position dip switch used to program each device with an address ranging from 1-127.



Figure 1. PAD Device Dip Switch Addresses Table (Addresses 1–127)

Note: Each "gray" box indicates that the dip switch is "On," and each "white" box indicates "Off."

The examples shown below illustrate a PAD device's dip switch settings: the 1st example shows a device not addressed where all dip switch settings are in the default "Off" position, the 2nd illustrates an addressed PAD device via the dip switch settings.

Figure 2. Examples of PAD Device Showing Default Dip Switch Setting (Unaddressed) & Addressed PAD Device

1 2 4 8 16 32 64 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0n 1 1 1 1 1 1 1 1 1 1 0 0n 1 1 1 1 1 1 1 1 1 1 1 0 0n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	All dip switches are shown in the "Off" position.	2 4 8 16 32 64	Example show address = 42. 32 are in the "	vs this PAD devic Dip switches #2, On" position.	:e's 8 &
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Before connecting a device to the SLC loop, take the following precautions to prevent potential damage to the SLC or device.

- Power to the SLC is removed.
- Field wiring on module is correctly installed.
- Field wiring has no open or short circuits.

### 3. Technical Specifications

Operating Voltage	24.0V		
Max SLC Standby Current	200 μ Α		
Max SLC Alarm Current	200 μ Α		
IDC Input Circuit	Class B		
Max Wiring Resistance of IDC	100 Ω		
Max Wiring Capacitance of IDC	1µF		
Max IDC Voltage	2.05 VDC		
Max IDC Current	120 µ A		
EOL Resistor	5.1Κ Ω		
Operating Temperature Range	32 to 120 F (0 to 49 C)		
Operating Humidity Range	0 to 93% (non-condensing)		
Max no. of Module Per Loop	127 units		
Dimensions	1.75" L x 1.36" W x 43" D		
Mounting Options	2-1/2" deep single-gang box		
Shipping Weight	0.3 lbs		

## 4. Wiring Diagram

Below is an wiring diagram showing how to wire a PAD100-MIM module to the panel.



# These instructions do not purport to cover all the details or variations in the equipment described, nor provide for every possible contingency to be met in connection with installation, operation and maintenance.

Specifications subject to change without prior notification.

For Technical Assistance contact Potter Electric Signal Company at 866-956-1211.

Actual performance is based on proper application of the product by a qualified professional.

Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purpose, the matter should be referred to a distributor in your region.

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