



POTTER PAD100-MIM Micro Input Module Instruction Manual

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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.

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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.

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)

	1	2	4	8	16	32	64		1	2	4	8	16	32	64		1	2	4	8	16	32	64		1	2	4	8	16	32	64		1	2	4	8	16	32	64	
1									27								53								78								103							
2									28								54								79								104							
3									29								55								80								105							
4									30								56								81								106							
5									31								57								82								107							
6									32								58								83								108							
7									33								59								84								109							
8									34								60								85								110							
9									35								61								86								111							
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19									45								71								96								121							
20									46								72								97								122							
21									47								73								98								123							
22									48								74								99								124							
23									49								75								100								125							
24									50								76								101								126							
25									51								77								102								127							
26									52																															

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

<div> <div>1 2 4 8 16 32 64</div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> <div>On</div> <div>Off</div> </div>	<div>All dip switches are shown in the "Off" position.</div>	<div> <div>1 2 4 8 16 32 64</div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> <div>On</div> <div>Off</div> </div>	<div>Example shows this PAD device's address = 42. Dip switches #2, 8 & 32 are in the "On" position.</div>
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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.

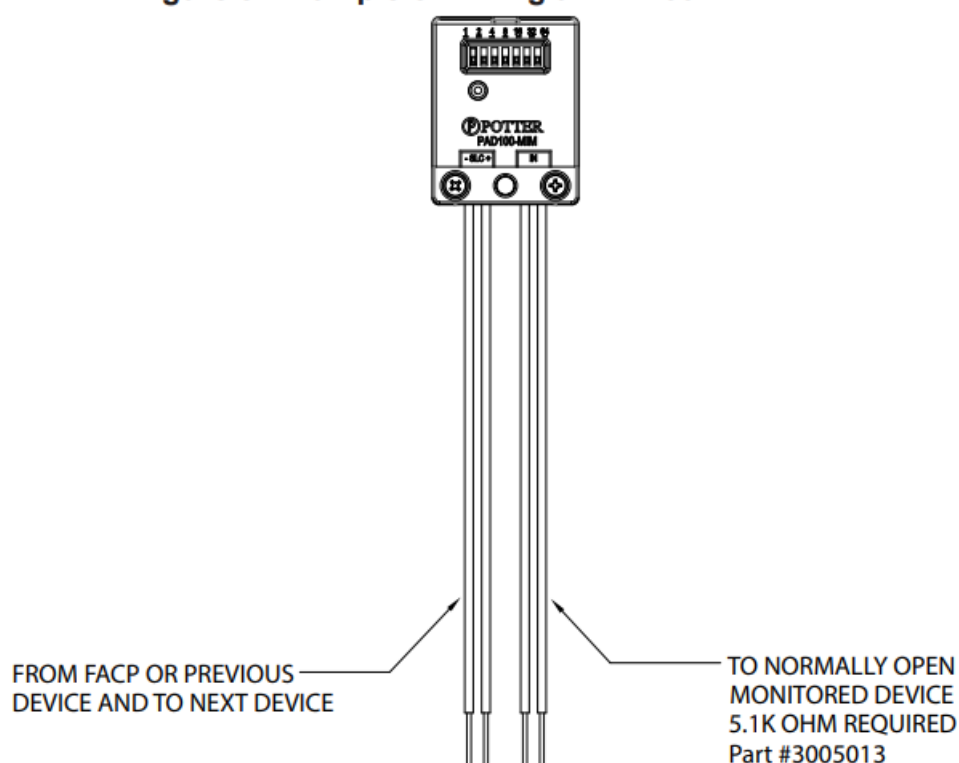
Technical Specifications

Operating Voltage	24.0V
Max SLC Standby Current	200 μ A
Max SLC Alarm Current	200 μ A
IDC Input Circuit	Class B
Max Wiring Resistance of IDC	100 Ω
Max Wiring Capacitance of IDC	1 μ F
Max IDC Voltage	2.05 VDC
Max IDC Current	120 μ A
EOL Resistor	5.1K 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

Wiring Diagram

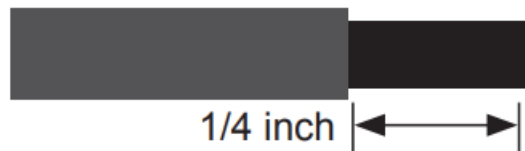
Below is an wiring diagram showing how to wire a PAD100-MIM module to the panel.

Figure 3. Example of Wiring a PAD100-MIM



Notes:

- SLC wiring style supports the Class A, Class B and Class X.
- IDC wiring style is Class B.
- SLC loop wiring (SLC+, SLC-) and initiating device wiring (IN) are power limited.
- Wiring for terminals SLC+, SLC- are supervised.
- Wiring for terminals (IN) are supervised.
- This addressable module does not support 2-wire detectors.
- All wiring is between #12 (max.) and #22 (min.).
- Wire Preparation – Strip all wires 1/4 inch from their edges as shown here:



- Stripping too much insulation may cause a ground fault.
- Stripping too little may cause a poor connection and subsequently an open circuit.

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.

Potter Electric Signal Company, LLC • St. Louis, MO • Phone: (800) 325-3936 • www.pottersignal.com
 Document 5406302-A 02/16
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Documents / Resources

	<p>POTTER PAD100-MIM Micro Input Module [pdf] Instruction Manual PAD100-MIM Micro Input Module, PAD100-MIM, Micro Input Module, Input Module, Module</p>
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References

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