



POTTER PAD100-OROI One Relay One Input Module Instruction Manual

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NOTICE TO THE INSTALLER

This manual provides an overview and the installation instructions for the PAD100-OROI 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.

Description

The PAD100-OROI uses one (1) SLC loop address when monitoring one (1) Class B circuit and providing one (1) Form C relay contact. The module mounts on either an UL Listed 2-1/2" deep 2 gang box or 1-1/2" deep 4" square box. The PAD100-OROI 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)

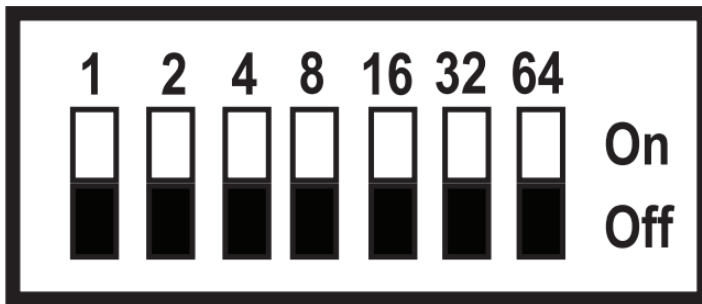


Note: Each “gray” box indicates that the dip switch is “On,” and each “white” box indicates “Off.”

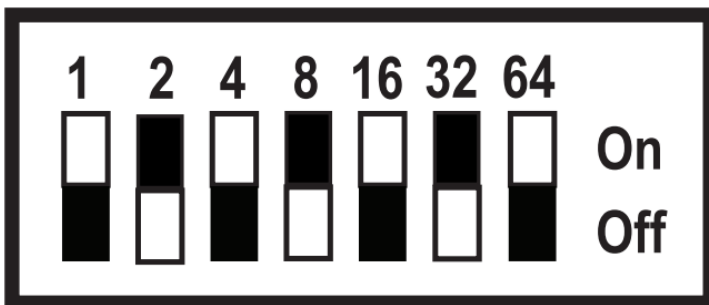
The examples shown below illustrate a PAD device's dip switch settings: the 1st example shows a device not addressed where all dip switch settings are in the default “Off” position, the 2nd illustrates an addressed PAD device via the dip switch settings.

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

- All dip switches are shown in the “Off” position.



- Example shows this PAD device's address = 42. Dip switches #2, 8 & 32 are in the “On” position.



When the PAD100-OROI is used to monitor one Class B circuit a single device address is assigned; the input and relay are then identified as a sub-point of the module address. For example, if the address number is assigned as “8”, the “RLY1” relay will be “8.1”, and the “IN1” input will be “8.2”. 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	240 μ A
Max SLC Alarm Current	240 μ A
Relay Contacts	2A @30VDC, 0.5A @125VAC
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	4.17" L x 4.17" W x 1.14" D
Mounting Options	UL Listed 2-1/2" deep 2-gang box or 1-1/2" deep 4" square box
Shipping Weight	0.6 lbs

Wiring Diagrams

The wiring diagram shown below illustrates how to wire a PAD100-OROI module as a Class B circuit. Additionally, an installation diagram shows how to install the module using a compatible electrical box.

Figure 3. Example of Installing a PAD100-OROI Using a Compatible Electrical Box

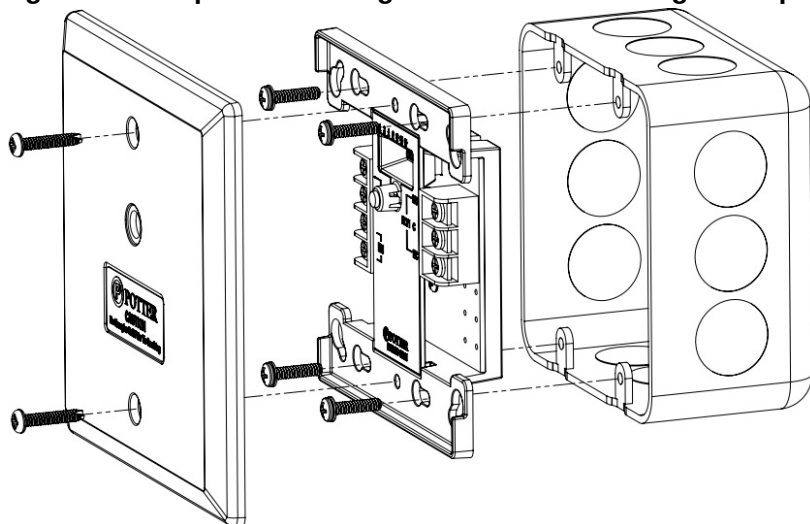
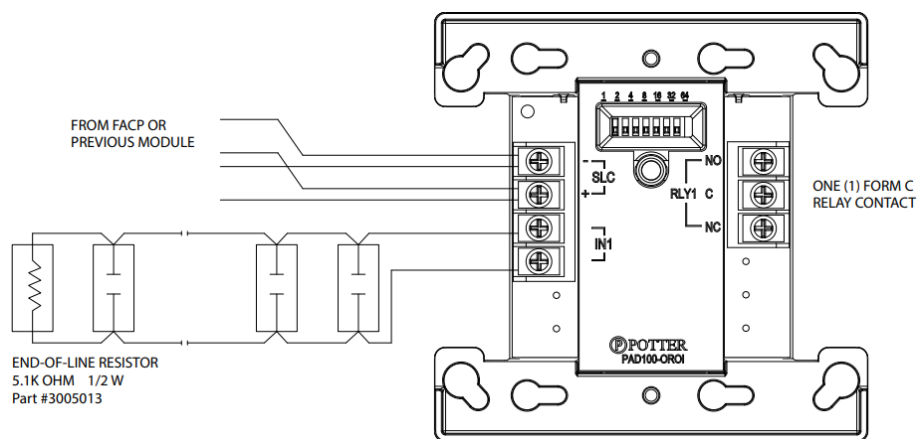


Figure 4. Example of Wiring a PAD100-OROI with One Class B Circuit



Notes

- Contact output wiring is power limited when the device power supply is power limited. Contact output wiring is non-power limited when the device power supply is non-power limited. When using non power limited wiring, it must use an alternate opening in the back box and the wire routed at least 1/4 inches from the SLC wiring.
- SLC wiring style is applicable to the Class A, Class B and Class X.
- IDC wiring style is applicable to the Class B.
- SLC loop wiring (SLC+, SLC-), initiating device wiring (IN1), and relay wiring (RLY1) are power limited.
- Wiring for terminals SLC+, SLC- are supervised.
- Wiring for terminal (IN1) is 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.



It is possible that the internal relay in the PAD100-OROI may be shipped in the non-normal / activated state. To ensure that the internal relay is set to the normal state, connect the module to the SLC loop and reset the control panel before terminating the wiring to the module's output.

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.



	<p>POTTER PAD100-OROI One Relay One Input Module [pdf] Instruction Manual</p> <p>PAD100-OROI One Relay One Input Module, PAD100-OROI, One Relay One Input Module, Relay One Input Module, One Input Module, Input Module, Module</p>
	<p>POTTER PAD100-OROI One Relay One Input Module [pdf] Owner's Manual</p> <p>PAD100-OROI One Relay One Input Module, PAD100-OROI, One Relay One Input Module, Input Module</p>

References

-  [Fire Alarm Resources | Download fire alarm documents](#)
-  [Potter Electric: Fire Alarms & Fire Sprinkler Systems](#)