

## Installation Manual: PC-2H Conventional Heat Detector

### NOTICE TO THE INSTALLER

This manual provides an overview and the installation instructions for the PC-2H detector. This product is designed for 2-wire conventional fire alarm system, and it shall only be installed with listed control panels. For system compatibility, please refer to the control panel instruction manual.

#### 1. Description

The PC-2H is a conventional heat detector with a fixed temperature and a 15°F/min rate of rise alarm. Each detector includes one (1) LED to indicate the device statuses including normal standby, alarm and trouble.

The PC-2H is listed on maximum 70 ft spacing with alarm set point 135°F on smooth ceiling. Refer to NFPA 72 for more details regarding spacing, placement and special applications.

The PC-2H detector can be sold separately or together with the 6" mounting base PC-6DB. The PC-2H6B is the model including the PC-2H detector and the PC-6DB base.

Refer to the company website for the latest revision of this manual.

#### 2. Technical Specifications

	PC-2H
Operating Voltage	12 or 24 VDC
Avg. Standby Current	60 $\mu$ A
Max. Standby Current	132 $\mu$ A
Alarm Current (Must limited by panel)	6 mA - 130 mA
Alarm Temperature	135°F, 15°F/min RoR
Installation Temp Range	32°F - 115°F
Operating Humidity Range	0% - 95% (Non-condensing)
Dimension	$\Phi$ 3.93 in
Weight	2.4 oz
Height	1.5 in

#### 3. LED Modes

	Conditions	Action
LED flashes every 3 seconds	Normal Standby	None
LED latches on	Alarm	Check Panel Status
LED Off	Trouble	Service is Required

#### 4. Installation

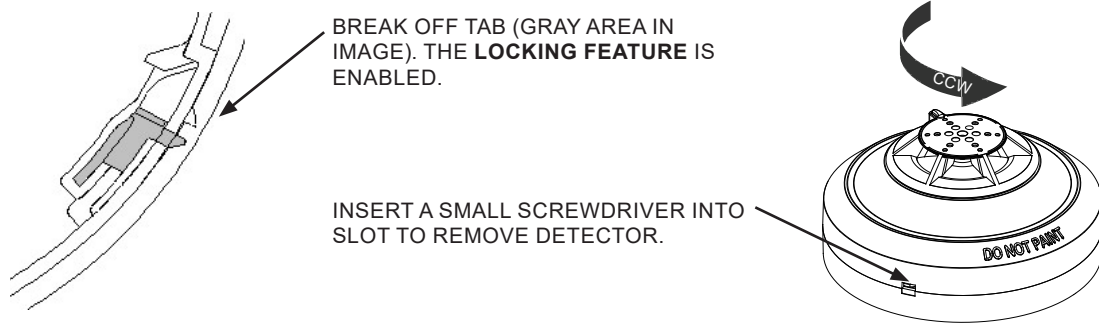
- Before connecting a device to the control panel, take the following precautions to prevent potential damage to the device.
  - Use with base PC-4DB or PC-6DB.
  - Confirm the field wiring on device is correctly installed on the base. Refer to the base manual.
  - Enable the locking feature if needed. Refer to section 5 for details of the locking feature.
- Plug detector into the base and turn clockwise to secure in place.

**⚠ CAUTION: THE DETECTOR SHALL BE CONNECTED ONLY TO THE CONTROL UNIT INITIATING DEVICE CIRCUIT AS SPECIFIED IN THE DETECTOR OR CONTROL UNIT LITERATURE OR THE SYSTEM MAY NOT OPERATE. DETECTORS ARE NOT TO BE USED WITH DETECTOR GUARDS UNLESS THE COMBINATION HAS BEEN EVALUATED AND FOUND SUITABLE FOR THAT PURPOSE.**

#### 5. Locking Feature

The PC-2H includes a tamperproof feature that locks the detector and does not allow removal without the use of a tool.

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## 6. Testing

Testing must meet the requirements of the Authority Having Jurisdiction (AHJ). It is recommended to follow guidelines as described in NFPA 72. It is important to test the product after installation and periodically to ensure it functions properly.

**⚠ CAUTION: NOTIFY APPROPRIATE AUTHORITY BEFORE TESTING THE DETECTOR. REFER TO THE PANEL INSTALLATION MANUAL FOR ANY SPECIFIC GUIDELINES WHEN TESTING INITIATING DEVICES.**

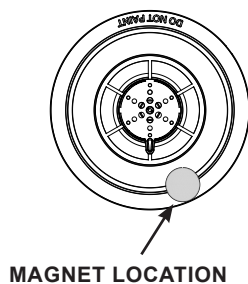
- Heat Test

Use hair dryer or heat gun to direct the heat toward the side of the detector. Keep at 6 in or 15 cm to avoid overheating. Units failing the heat test should be serviced.

- Magnet Test

The magnet test provides a quick test to verify the connections and the detector electronically. This test should not replace the heat test, which is required as part of regular testing and maintenance per NFPA 72.

1. Hold the test magnet in the magnet test area as shown below.



2. The LED latches on to indicate the detector is in alarm.
3. Remove magnet.
4. Alarm on the fire alarm panel should be reset.
5. If the unit fails the magnet test, test the unit with a heat gun or hair dryer to confirm any failures.

## 7. Maintenance

Consult your local code and AHJ requirements for required maintenance schedules.

These instructions do not 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.

## 8. Warranty

POTTER warrants that the equipment herein shall conform to said descriptions as to all affirmation of fact and shall be free from defects of manufacture, labeling, and packaging for a period of five (5) years from the invoice date to the original purchaser, provided that representative samples are returned to POTTER for inspection. The product warranty period is stated on the exterior of the product package. Upon a determination by POTTER that a product is not as warranted, POTTER shall, at its exclusive option, replace or repair said defective product or parts thereof at its own expense, except that Purchaser shall pay all shipping, insurance, and similar charges incurred in connection with the replacement of the defective product or parts thereof. This Warranty is void in the case of abuse, misuse, abnormal usage, faulty installation, repair by unauthorized persons, or if for any other reason POTTER determines that said product is not operating properly as a result of causes other than defective manufacture, labeling, or packaging.