**P POTTER**
*The Symbol of Protection*

## Features

- Carbon Monoxide detection device compliant with UL 2075
- 8 year lifespan with built in end of life indication
- Low profile
- Walk Test mode allows for fast easy validation of sensor operation
- Reliable detection technology
- LED Alarm Indicator
- Product includes a 5 year warranty
- UUKL Listed for Smoke Control

*ASSEMBLED IN THE USA*

UL LISTED

## Description

The PAD100-CD is an Analog Addressable carbon monoxide (CO) sensor compatible with any fire alarm control panel that has the Potter Addressable Device (PAD) protocol. The CO sensing portion utilizes a proven electrochemical sensor for accurate detection of CO gas for life safety applications. The sensor and base (not included) are made of a durable plastic in an off white to blend in with the ceiling.

The PAD100-CD is listed to comply with the requirements of UL 2075. The sensor and the control panel communicate over a proven and robust digital communication path and the system analyzes the information at the particular device. The total polling speed is less than five (5) seconds, well under the UL requirements.

The sensor is compatible with any of the PAD series sensor bases and simply twists on. The PAD100-CD is addressed using DIP switches in the rear of the sensor and can be easily programmed in the field without special tools.

## Setting the Address

Each addressable device on the SLC loop must have a unique address from 1 to 127 to function properly. The address is set using DIP switches.

Before connecting a device to the SLC loop, take the following precautions to prevent potential damage to SLC or device. Verify the following:

1.     Power to the device is removed
2.     Field wiring is correctly installed.
3.     Field wiring has no open or short circuits.

## Technical Specifications

| | |
|---|---|
| Operating Voltage | 24 VDC |
| Detector Current Draw | 300 µA |
| Alarm indicator | 1 LED |
| Alarm set-point range | 70 ppm, 150 ppm, 400 ppm |
| Installation temperature range | 32 to 120 °F / 0 to 49 °C |
| Operating relative humidity range | 0% to 93% (Non-condensing) |
| Start-up time | Max. 1 sec. |
| Maximum number of addresses per loop | 127 |
| Maximum number of lighted indicators in alarm per loop | 30 |
| Color | Eggshell White |
| Weight (without base) | 92g (3.25oz) |
| Dimensions (without base) | Height: 1.43 in (36mm) Diameter: 3.93 inches (100mm) |

## Operation

The PAD100-CD is an analog addressable sensor that uses one address on the Signaling Line Circuit (SLC) of a compatible fire alarm control panel. The unit communicates with the control panel as it is polled. The LED flashes every time the unit is polled and they will flash at a fast rate if the unit is in an active status. The polling LED can be turned off if desired for less conspicuous operation.

The PAD100-CD with the PAD100-4DB or PAD100-6DB has a low profile of less than two (2) inches to blend into the surrounding environment.

## Detection Levels

The PAD100-CD will provide alarm reports at these required levels:

**Alarm set-point**

70 ppm for 2 hours

150 ppm for 30 min

400 ppm for 10 minutes

## Compatible Bases

All bases will mount on a single gang, double gang, octagon, 4" square or mud ring electrical box.

| Device | Description | Stock No. |
|---|---|---|
| PAD100-4DB | 4" Standard Base | 3992731 |
| PAD100-6DB | 6" Standard Base | 3992732 |
| PAD100-IB | 6" base with an isolator module included. | 3992730 |
| PAD100-RB | 6" base with one Form-C relay contact. 2A @ 30VDC, 0.5A @ 125VAC | 3992728 |
| PAD100-SB | 6" base with sounder module included. Sound pattern is provided from external source. | 3992729 |
| PAD100-SPKB | 6" base with speaker included | 3992762 |

## Ordering Information

| Model | Description | Stock No. |
|---|---|---|
| PAD100-CD | Carbon Monoxide Detector | 3992736 |