

## Features

- Low Profile
- Reliable Detection Technology
- LED Alarm Indicator
- Magnetic Test Switch
- Product includes 5-year warranty
- UUKL Listed for Smoke Control
- Approved for in-duct plenum mounted application



## Description

The PAD300-DD is an analog addressable photoelectric duct smoke detector (in duct) or mounted in the PAD300-DUCT or PAD300-DUCTR with sampling tubes extending into or traversing a duct. This detector is compatible with any fire alarm control panel that has the Potter Addressable Device (PAD) protocol.

The PAD300-DD is listed to comply with the requirements of UL 268 A. The detector and the control panel communicate over a proven and robust digital communication path and the system analyzes the information at the device. The total polling speed is less than five (5) seconds, well under the UL requirements.

The detector is compatible with any of the PAD300 series detector bases and simply twists on. The PAD300-DD is addressed using DIP switches in the rear of the detector 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 Range	24 VDC
Standby Current	300 $\mu$ A
Alarm Indicator Current	1.4 mA
Alarm Set Point	2.5%/ft (8%/m)
Installation Temperature Range	32°F to 120°F (0°C to 49°C)
Operating Humidity Range	0% to 93% (Non-condensing)
Air Velocity	300 to 3000 fpm
Dimension	3.93 in (100 mm)
Weight	91 g (3.20 oz)
Height	1.42 in (36 mm)

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## Operation

The PAD300-DD is an analog addressable detector 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 it 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 PAD300-DD with the PAD300-4DB or PAD300-6DB has a low profile of less than two (2) inches to blend into the surrounding environment.

## Compatible Bases

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

Device	Description	Stock No.
PAD300-4DB	4" Detector Base	3992781
PAD300-6DB	6" Detector Base	3992782

## Ordering Information

Model	Description	Stock No.
PAD300-DD	Photoelectric Duct Detector	3992797