

PDSD2000 Photoelectric Duct Smoke Detector



Product Overview:

The PDSD2000 Photoelectric Conventional Duct Smoke Detector offers advanced early detection of smoke and combustion particles within HVAC duct systems. Ideal for commercial, industrial, and residential buildings, this duct-mounted smoke detector ensures reliable air safety by monitoring airflow for signs of fire hazards.

Product Features:

- Patented No-Tools Required front or rear loading and removing sampling/exhaust tubes
- Patented Test Port Valve allows for aerosol smoke testing without cover removal
- Clear cover fitted with four captive No-Tools Required thumbscrews
- Instantaneous cover removal trouble indication
- Staggered terminal blocks for easier wiring
- Detector head's LED indicates for normal status (flashing light), alarm status (solid state) or trouble (off)
- Magnet test capability (magnet included)
- Duct wall gaskets on back of enclosure are pre-installed
- Unit's pcb board includes green pilot and red alarm visual indicators or off for trouble
- External mounting tabs do not require cover removal to install
- Colored cover gasket indicates proper cover seal
- Reset switch is also an alarm test switch
- Operating voltages: 230VAC, 115VAC, 24VAC, 24VDC
- Relay contacts: Two sets of 10A form C alarm contacts One set of 2A form A alarm contacts One set of 10A form C trouble contacts
- Standard interchangeable "plug-in" UL268 photoelectric heads with advances internal dust filtering design
- No additional screens or filters to clean
- Complete wiring details permanently attached to unit
- Low-Flow Technology (between 100-4000 ft./min)
- Listed for high-temperature applications
- Interconnect up to 30 units for common functions
- Footprint allows easy retrofit in many applications without additional drilling
- Compatible with building automation and fire alarm systems

Sampling Tubes

Sampling tubes must be ordered separately and are required for proper installation



PDSD2000 Technical Specifications

MODEL NUMBER:	PDSD2000 Photoelectric: 230VAC, 115VAC, 24VAC, 24VDC	
SMOKE SENSOR MODEL NUMBER:	55000-335DCT	
SAMPLING TUBES:	FAST Tube Sectional sampling tube (kit fits up to 90" duct width) STN-1.0 Sampling tube for 10" or less duct width STN-2.5 Sampling tube for 1' to 3' duct width STN-5.0 Sampling tube for 3' to 5' duct width STN-10.0 Sampling tube for 5' to 10' duct width	
POWER REQUIREMENTS: (without accessories) Standby:	230VA	12 mA
	115VAC	22 mA
	24VA	55 mA
	24VDC	14 mA
Alarm:	230VAC	18 mA
	115VAC	32 mA
	24VAC	190 mA
	24VDC	68 mA
RELAY CONTACT RATING:		
Alarm Contacts:	Resistive load: 2 sets form "C" rated at 10 Amps @ 115VAC Resistive load: 1 set form "A" rated at 2 Amps	
Trouble Contacts:	Resistive load: 1 set form "C" rated at 10 Amps @ 115VAC	
AIR VELOCITY:	100 to 4,000 ft./min.	
AMBIENT TEMPERATURE:	SL-2000-P 32°F to 140°F (0°C to 60°C)	
HUMIDITY:	10-85% % RH (@32 ±2°C; 86 ±3.6°F) Non-Condensing / Non-Freezing	
WIRING:	Solid or stranded: #12 to #22 AWG terminals	
APPROVALS:	UL & CUL Listed (UL268A, UROX, UROX7) File # S2829 CSFM Listed (3240-1004:105)	
MATERIAL:	Grey plastic backbox, clear plastic cover (Makrolon 94V-0)	
DIMENSIONS:	13 ½" L x 4 ½" W x 2 ¼" H	
MAX. NET WT.:	2 ½ lbs.	
HARDWARE:	7" exhaust tube, sampling tube end cap, mounting template, test magnet, and mounting hardware included	

ACCESSORIES

MSR-100 series	Remote Stations (Test Reset Function)	TG-2000	Solo Smoke Gas w/TestPort Nozzle
MSR-50 series	Remote Stations (Test Reset Function)	TG-2500	Centurion Smoke Gas w/TestPort Nozzle
MS- series	Remote Stations (Push Button & Key Reset)	T-PB series	Power Supplies, 24VAC from 115VAC @1.0A Input
WP-2000	Waterproof Enclosure		