

DATA SHEET

SM-501-P

PHOTOELECTRIC DUCT SMOKE DETECTOR



PRODUCT DESCRIPTION

The SM-501-P is a 4 wire conventional duct smoke detector that provides early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial, and Residential Applications. It has been specially designed to allow linkage of common detector functions for up to 30 detectors.

AGENCY LISTING



PRODUCT FEATURES

- Operating voltages: 230VAC, 115VAC, 24VAC, 24VDC
- Listed for high temperature applications
- Interconnect up to 30 units for common functions
- UL, CUL, CSFM, and MEA Listed
- Compact Size
- Two sets of 10A form "C" alarm contacts
- One set of 10A form "C" trouble contacts
- Rugged steel back box with clear cover
- Compatible with the WP-1 weatherproof enclosure
- Easy retro-fit/upgrade of discontinued RW Series
- Clear cover fitted with 4 captive screws
- Large terminal connection screws
- Interchangeable "Plug-In" photoelectric heads
- Easy mounting without cover removal
- Advanced detector head design yields internal dust filtering with no additional screens or filters to clean
- Over 15 remote accessories available

ENGINEERS & ARCHITECTS SPECIFICATIONS

Air duct smoke detectors shall be Air Products and Controls Inc. SM-501-P. The detectors shall be listed by Underwriters Laboratories per UL 268A. The detectors shall operate at air velocities from 500 feet per minute to 4,000 feet per minute and at temperatures of no greater than 140°F (60°C). The duct detector housings shall be of metal construction and complete mechanical installation may be performed without removal of detector cover.

Visual indication of alarm and power must be provided on the detector front. A manual reset switch shall be located on front of the device. The housing shall contain a detector base which will accept photoelectric detector heads. Detector head shall not require additional filters or screens which must be maintained.

Terminal connections shall be of the screw type and be a minimum of #6 screw (#12 to #22 AWG compatible). Terminals shall be provided for remote pilot, remote alarm indications, strobe/horn and remote test/reset switch. All wiring must comply with local codes and regulations.

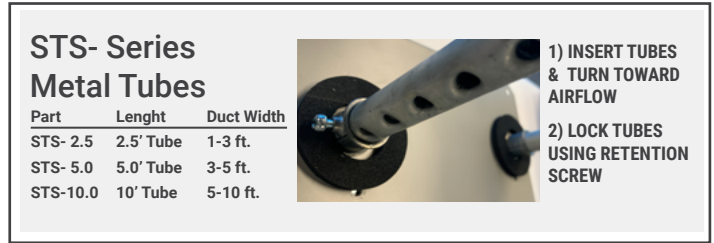
Capability for interconnection of up to 30 units shall be provided for common functions.

TECH SUPPORT PAGE:

Visit our Tech support page for guides & videos on how to wire our duct smoke detectors.
apcfire.com/support

SAMPLING TUBES INSTALLATION

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



PRODUCT SPECIFICATIONS

MODEL NUMBER:	SL-501-P	Photoelectric: 230VAC, 115VAC, 24VAC, 24VDC
DETECTOR HEAD MODEL NUMBER:	55000-328APO	
SAMPLING TUBES:	FAST Tube	Sectional sampling tube, kit fits up to 90" duct width
	STS-1.0	Sampling tube for 12" or less duct width
	STS-2.5	Sampling tube for 6" to 2.5' duct width
	STS-5.0	Sampling tube for 2.5' to 5.0' duct width
	STS-10.0	Sampling tube for 5.0' to 10.0' duct width
POWER REQUIREMENTS: (without accessories)	230VAC	12 mA
Standby:	115VAC	25 mA
	24VAC	35 mA
	24VDC	15 mA
Alarm:	230VAC	16 mA
	115VAC	32 mA
	24VAC	94 mA
	24VDC	56 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:	500 to 4,000 ft./min.	
AMBIENT TEMPERATURE:	SM-501-P	32°F to 140°F (0°C to 60°C)
HUMIDITY:	85 ±5 % 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 (3240-1004:108)	
MATERIAL:	18ga. Grey steel backbox, clear plastic cover (Makrolon 94V-0)	
DIMENSIONS:	8 1/8" L x 7 1/4" W x 2 1/4" H	
MAX. NET WT.:	3 1/2 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-1000	Solo Smoke Gas
MSR-50 series	Remote Stations (test reset function)	TG-2500	Centurion Smoke Gas
MS- series	Remote Stations (push button & key reset)	T-PB series	Power supplies, 24VAC from 115VAC @1.0A input
WP-1	Waterproof Enclosure		

FOR MORE PRODUCTS AND INSTALL GUIDES VISIT: apcfire.com/products

