

### Smoke Detectors



## ACI/SM-501 ACI/SL-2000 Series



### Product Description

The ACI/SM-501 and SL-2000 series duct smoke detectors will provide early detection of smoke and products of combustion present in the air moving through a duct in any commercial, industrial, or residential application. These devices are designed for the prevention of smoke re-circulation by the air handling systems, fans, and blowers. Complete systems may be shut down in the event of smoke detection.

Both the SM-501 and SL-2000 will allow up to 30 detectors to be interconnected for some of the common functions including the use of a common test/reset function or to alarm when a single unit alarms. Up to 15 units and signaling devices may be interconnected to operate with a single alarm.

The SM-501 and SL-2000 is designed and built to meet all local requirements, as well as the NFPA regulations regarding duct smoke detectors. Output terminals are provided for remote accessories such as horns, strobes, remote status indicators, and test/reset key switches or pushbuttons.

The Ionization and Photoelectric detector heads are interchangeable. Air sampling is accomplished via two tubes that protrude into the duct. An exhaust tube with a standard length of 7" is supplied in the installation kit with the unit. Once the duct size is determined, a sampling tube must be ordered. Three standard sizes including a 2.5', 5', and 10' lengths can be ordered and cut to the correct size of the duct.

The SM-501 and SL-2000 provides (2) sets of 10A Form "C" alarm contacts, along with (1) set of 10A form "C" trouble contacts for monitoring head removal and supply voltage failure. The green pilot and red alarm indicators provided on the front of the SM-501 signal the operating status of the device. The green pilot LED will be extinguished when the detector head is removed. A manual test/reset switch is located next to the LED indicators. All of these units come with a 2 year factory warranty. Please contact ACI for more information regarding any of these products.

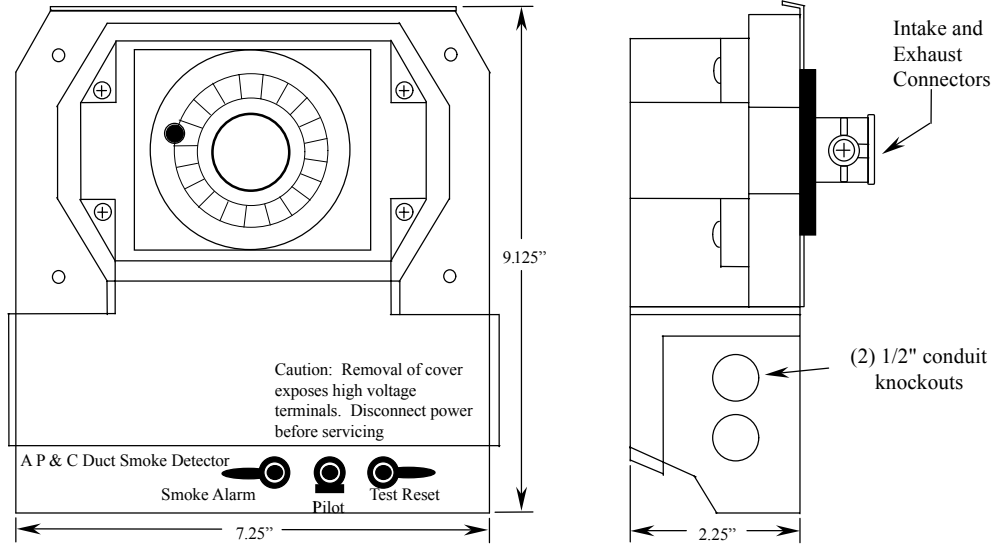
### Product Specifications

Supply Voltage	24 VAC/VDC, 115 VAC, 230 VAC	Supply Current	Stand-by		Alarm	
			SM-501	SL-2000	SM-501	SL-2000
Air Velocity	SM-501 500 to 4,000 ft./min SL-2000 100-4000 ft./min	24VAC:	35mA	39.3mA	74mA	59.3mA
Relay Outputs	Alarm: (2) sets form "C" relay 10A @ 115 VAC resistive Trouble: (1) form "C" relay 10A @ 115 VAC resistive	24VDC:	15mA	13.5mA	56mA	128.7mA
		115VAC:	25mA	13.8mA	32mA	27.0mA
		230VAC:	12mA	7.9mA	16mA	16.0mA
Enclosure	SM501: 18 Ga. Steel backbox, clear plastic cover SL2000: Grey plastic back box, clear plastic cover	Detector Head	SM-501: Series 60; SL2000: Series 65			
Approvals SM-501  SL-2000	UL Listed, (UL268A; UROX. S2829) CSFM Listed (3240-1004:108) MEA Listed (73-92-EX); Vol. 20. CSFM Listed (3240-1004:105) MEA Listed (73-92-E); Vol. 27.	Wire Size	#14 to 22 AWG terminals			
		Weight	SM-501: 3.5 lbs., SL2000: 2.5 lbs.			
		Humidity	10 to 85% RH, non-condensing			
Ambient Temp. Range	SM501-N & SL2000-N: 32 to 155°F (0 to 68°C) SM501-P & SL2000-P: 32 to 100°F (0 to 38°C)					

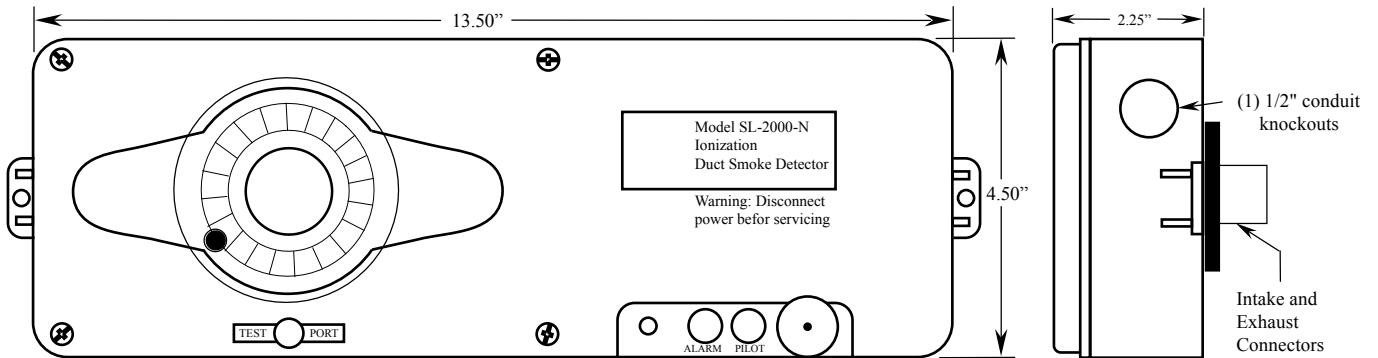
# Dimensions

All Dimensions are in Inches

## ACI/SM-501



## ACI/SL-2000



## Ordering Information

### Smoke Detectors

ACI/SM-501 - [ ]



(N) - Ionization Detection Head  
(P) - Photoelectric Detection Head

ACI/SL-2000 - [ ]



(N) - Ionization Detection Head  
(P) - Photoelectric Detection Head

### Sampling Tubes

ACI/STS - [ ]



(1.0) - Sampling tube for 6" to 1' duct widths  
(2.5) - Sampling tube for 6" to 2.5' duct widths  
(5.0) - Sampling tube for 2.5' to 5' duct widths  
(10.0) - Sampling tube for 5' to 10' duct widths

Example: A/SM-501-N or A/STS-2.5 or A/SL-2000-N or A/SL-2000-P