



# XP95A Temperature Sensor Head

## Model TSH-450

### General Description

The XP95A Temperature Sensor Head is molded from white polycarbonate material with a low air flow resistance design. Stainless steel wiper contacts connect the sensor to the terminals, which are polarity insensitive, in the mounting base. Inside the sensor case is a circuit board with the sensing system on one side and the address capture, signal processing, and communication electronics on the other side.



The sensor monitors temperature by using a single thermistor network, which provides a voltage output proportional to the external air temperature. This analog voltage is converted to a digital signal, which is transmitted to the FACP for interpretation. The alarm threshold is programmed into the FACP.

### Specifications

Sensor Part Number:	55000-450
Sensing Element:	Single NTC Thermistor
SLC wiring:	Two wire supply, polarity insensitive
Supply Voltage:	17-28 VDC
Standby Current:	250 $\mu$ A (.000250A)
Style:	Styles 4, 6, and 7 switch selectable
Terminations:	Stainless steel wiper contacts
End-of-Line Resistor:	None
Alarm Temperature:	135°F (57°C) (55 counts in 7 bits or 110 counts in 8 bits) UL class "Ordinary"
Alarm Indicator:	Red LED
Wind Speed:	Unaffected in fixed temperature use
Atmospheric Pressure:	Unaffected
Flat Ceiling Coverage	Smooth ceiling, 60 ft; to walls or partition, 25 ft
Ceiling Spacing	60 feet UL, 20 feet FM
Remote LED Current:	4mA (.004 A) at 5V (measured across remote load)
Storage Temperature:	-30F to +175°F (-34°C to 80°C)
Operating Temperature:	0°F to +155°F (-18°C to +68°C)
Continuous Operating Range	32°F to 100°F (0°C to 38°C)
Humidity:	0% to 95% relative humidity (No condensation)
Dimensions:	4in. X 1.65in. (100mm X 40mm)
Weight:	3.0 oz. (85g)
Materials:	Sensor housing is white polycarbonate V-O rated to UL 94. Terminals are stainless steel, nickel plated
Approvals:	Underwriters Laboratories

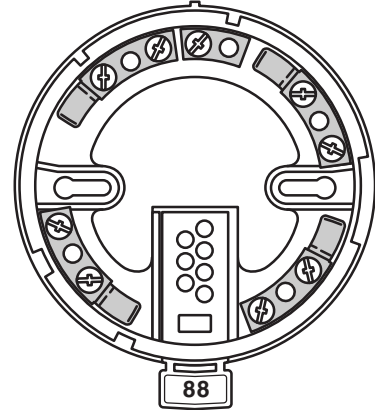


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### Bases

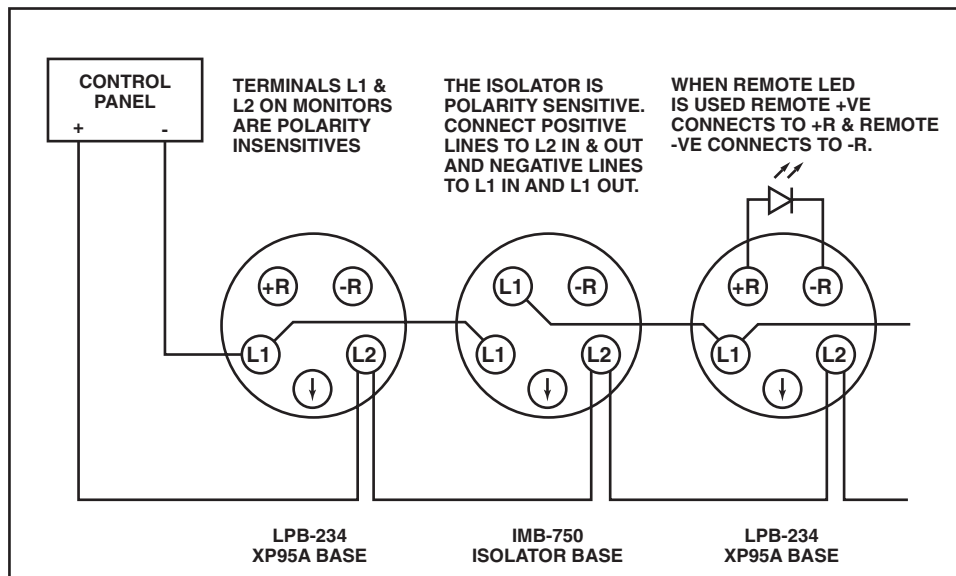
- Low Profile: Model number LPB-234, P/N 45681-234, 6 in. (150mm) diameter, 0.35 in. (89mm) high
- Base w/Sounder: Model number ASB-SDR, P/N MB-SDR-XP95, 6-in. (150mm) diameter with integral sounder
- Base w/Relay: Model number ARB-RLY, P/N MB-RLY-XP95, 6-in. (150mm) diameter with integral relay



XP95A Mounting Base with XPERT Card  
LPB-234

*An XP95 Address Programming Card is included with each base*

**Typical Style 4 Wiring of detector and Isolator bases. Please refer to Section 2 of the Series 3000 installation manual (PN 3000-6000) and the information provided with the device for Style 6 and 7 wiring, addressing and device installation information.**



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