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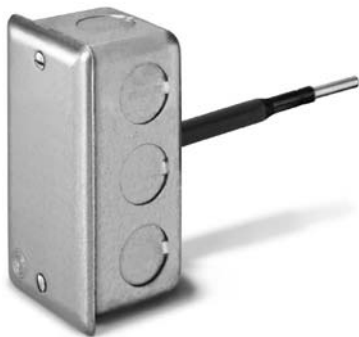www.hvacusa.com
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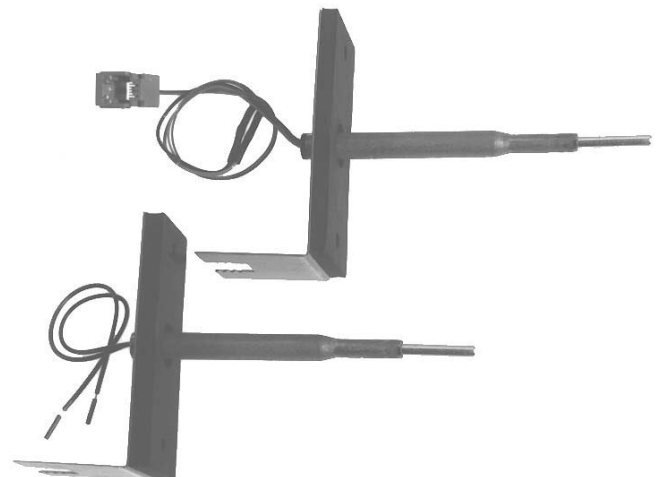
Duct Point Temperature Sensors

Applications

Zone controllers use the Duct Point Temperature Sensors when an accurate, reliable indication of duct temperature is needed. They are well-suited for applications such as heating and cooling, morning warm up/cool-down, and monitoring discharge air temperature. The sensors' resistance varies proportionally to the actual duct air temperature being measured.

Description

The Duct Point Temperature Sensors provide an input for temperature monitoring and control. The 10K ohm thermistor sensors are available with either a flexible mounting plate or an attached 2 × 4 metal enclosure. The 100K ohm thermistor sensors are only available with a flexible mounting plate. The sensors are designed for quick and easy mounting on either round or rectangular sheet metal ductwork. A gasket and self-drilling screws are included with the sensors. The sensors are wired to the controller via a cable, which transmits the temperature signal to the controller.

NOTE: The 10K ohm thermistor sensors with RJ-11 male connections only work when substituted for the room temperature sensor that is normally connected to the Siemens APOGEE P1 TEC or BACnet TEC controller at the RJ-11 communication port.

Specifications

Temperature Monitoring Range	
10,000 ohms (RJ-11 types only)	55°F to 95°F (13°C to 35°C)
10,000 ohms (Free-wire types)	-40°F to 240°F (-40°C to 116°C)
100,000 ohms	-35°F to 240°F (-37°C to 116°C)
Sensor elements	Thermistor
Output signal	Changing resistance
Installation adjustment	None required
Calibration adjustment	None required
Factory calibration point	77°F (25°C)
Mid-Range Accuracy	
10,000 ohms	$\pm$ .5°F ($\pm$ .3°C)
100,000 ohms	$\pm$ 1.1°F ($\pm$ .6°C)
Thermistor resistance @ calibration point	10,000 ohms or 100,000 ohms
Installation (maximum cable length shared in conduit with other NEC Class 2 wiring)	100 feet (30.48 m)
Dimensions	
Probe length	3 inches (76.2 mm) or 18 inches (457 mm)
Mounting plate	1-1/2" W × 3-1/2" H (37.6 mm × 89 mm)

Ordering Information

Duct Temperature Sensor	
10,000 ohms (Wire into TEC RJ-11 port [replaces room sensor])	
Mounting flange with 4" probe	540-128
2 × 4 box with 4" probe	538-871
2 × 4 box with 18" probe	540-739
10,000 ohms (Wire into BACnet TEC AI3 Aux port)	
2 × 4 box with 4" probe	QAM2030.010
2 × 4 box with 8" probe	QAM2030.020
2 × 4 box with 18" probe	QAM2030.045
100,000 ohms (Wire into P1 TEC AI3 Auxilliary port)	
Mounting flange	536-811
Accessory	
TEC Duct Point Sensor Setpoint Adapter	540-656

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