VAV Discharge Air Temp Sensor

Model TE-701-BX

RoHS

- Designed for VAV discharge air temperature sensing. Comes with 12 feet of plenum rated cable and 1/4" quick disconnects for ease of installation to any VAV controller.
- 304 SS thin wall probe with a cold rolled hermetically sealed end forms a monolithic encapsulation cavity for the sensor and is immune to failures caused by high humidity, contamination, thermal shock and vibration.
- The flat probe end provides a large thermally sensitive area and the sensor is in direct thermal contact to this surface. As a result, extremely fast response is achieved to changes in temperature.
- Probe is crimped to the flange using a patented process to provide a rugged, reliable and low profile attachment for ease of installation.
- More than 15 types of interchangeable NTC thermistors, precision platinum, nickel or balco RTDs are available for universal compatibility.

TE-701-BX is an enhanced version of the popular TE-701-B duct temperature sensor. Plenum rated cable has been extended to 12 feet and 1/4" quick disconnects have been added to customize the sensor for VAV applications and to provide a low cost, labor saving solution for most of the VAV controllers in the industry. The sensor is available in 4 or 6 inch probe length to accommodate any size discharge air duct. For additional specifications please refer to the TE-701/702 data sheet.

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TE-701-BX

SPECIFICATIONS:

Platinum RTD sensors:	+/- 0.1% @ 0 C, Alpha : 385 per DIN 43760
Nickel RTD sensors: (#2)	+/- 0.5 C @ 0 C, 5000 PPM/K T.C.R.
Nickel RTD sensors: (#4)	+/- 0.5 F @ 70 F / 21.1 C, 6000 PPM/K T.C.R.
Balco RTD sensors:	+/- 0.5 F @ 70 F / 21.1 C, 4300 PPM/K T.C.R.
Thermistor sensors:	+/- 0.2 C interchangeabiltiy @ 77 F / 25 C
Probe Material:	1/4" / 6.3 mm O.D, 0.020" / 0.5 mm wall 304 Stainless Steel
Flange Material:	Galvanized Steel
Operating Temp:	-40F/-40C to 210F/100C
Ambient Temp:	-40F/-40C to 160F/70C
Warranty:	Five Years (Lifetime on Moisture Migration)
EMC Conformance:	EN 55022, 55024, 61000-3-3, 61000-4-2, 3, 4, 5, 6 & 11
RoHS Compliant	

Covered under: U.S. PATENT NO. 6457857, 7036224

ORDERING INFORMATION: TE-701-BX

Sensor*

1 100 ohm Platinum RTD
2 1,000 ohm Nickel RTD (5000 PPM)
3 1,000 ohm Platinum RTD
4 1,000 ohm Nickel RTD (6000 PPM)
5 1,000 ohm Balco RTD
7 10,000 ohm NTC thermistor (Type III)
8 10,000 ohm NTC thermistor (Carel)
10 3,000 ohm NTC thermistor
12 10,000 ohm NTC thermistor (Type II)
13 5,000 ohm NTC thermistor
14 1,035 ohm Silicon PTC
15 100,000 ohm NTC thermistor
17 20,000 ohm NTC thermistor
18 2,252 ohm NTC thermistor
21 1,800 ohm NTC thermistor

Probe Length

A 4 inches/100mm
B 6 inches/150mm

Example: TE-701-BX-12-A: VAV Discharge Air Temp Sensor with 10,000 ohm NTC thermistor (Type II) and 4 inch probe length.

* For sensor compatibility, please refer to TI.700-10.

** For a complete Resistance vs. Temperature tables, please refer to TI.700-11.

*** For additional information including dimensional drawings, please refer to DN701/2.2.

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