



TJ Series

VAV Discharge Temperature Sensor

Product Overview

The TJ Series temperature sensor is designed for VAV systems. The cable is plenum rated, and the probe is stainless steel for durability. The TJ is warranted for a period of five years.

Product Identification

NOTICE
<ul style="list-style-type: none"> This product is not intended for life or safety applications. Do not install this product in hazardous or classified locations. Read and understand the instructions before installing this product. Turn off all power supplying equipment before working on it. The installer is responsible for conformance to all applicable codes.

No responsibility is assumed by Veris Industries for any consequences arising out of the use of this material.

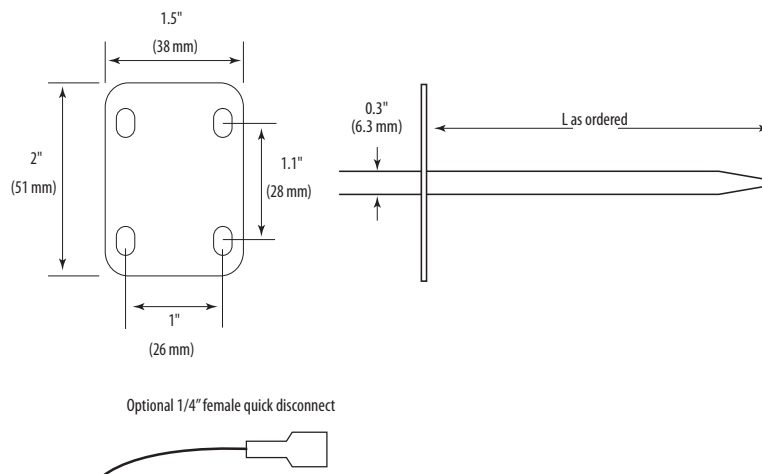
Probe Length	Sensor Type	Output	Cal Certs	Option
TJ <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> R	<input type="checkbox"/>	<input type="checkbox"/>
B = 4" (102 mm) D = 8" (204 mm)	B = 100R platinum, RTD C = 1k platinum, RTD D = 10k T2, Thermistor E = 2.2k, Thermistor F = 3k, Thermistor G = 10k CPC, Thermistor H = 10k T3, Thermistor I = 1k Balco (Nickel-iron) RTD J = 10k Dale, Thermistor K = 10k w/11k shunt, Thermistor M = 20k NTC, Thermistor N = 1800 ohm, Thermistor R = 10k US, Thermistor S = 10k 3A221, Thermistor T = 100k, Thermistor U = 20k "D", Thermistor W = 10k T2 high accuracy, Thermistor Y = 10k T3 high accuracy, Thermistor Z = 10k E1, Thermistor CC = 15k, Thermistor	= Resistive	0 = None 1 = 1 Point Cal Cert 2 = 2 Point Cal Cert	0 = Standard 5 ft. cable, no QDs 1 = 1/4" Female Quick Disconnects (QD) 2 = 1/4" QDs with 8 ft. lead wires 3 = 10 ft. cable, no QDs

Specifications

Wiring	22 AWG; 2-wire RTD/Thermistor
Housing	Stainless Steel
LINTEMP OPTION	
Input Power	5-30 VDC
Output	1 μ A/ $^{\circ}$ S or 10 mV/ $^{\circ}$ C
Operating Temperature Range	Probe: -25 $^{\circ}$ to 105 $^{\circ}$ C (-13 to 221 $^{\circ}$ F) Wiring side: up to 75 $^{\circ}$ C (167 $^{\circ}$ F)
Accuracy	
Calibration Error	1.5 $^{\circ}$ C (35 $^{\circ}$ F) typical; 2.5 $^{\circ}$ C (37 $^{\circ}$ F) max. at 25 $^{\circ}$ C (77 $^{\circ}$ F)
Error over Temperature	1.8 $^{\circ}$ C (35 $^{\circ}$ F) typical; 3.0 $^{\circ}$ C (34 $^{\circ}$ F) max. over 0 $^{\circ}$ to 70 $^{\circ}$ C (32 $^{\circ}$ to 158 $^{\circ}$ F) range; 2.0 $^{\circ}$ C (35 $^{\circ}$ F) typical; 3.5 $^{\circ}$ C (38 $^{\circ}$ F) max. over -25 $^{\circ}$ to 105 $^{\circ}$ C (-13 $^{\circ}$ to 221 $^{\circ}$ F) range

Increased cable length affects the readings of lower resistance RTDs (100R platinum RTD).
Room temperature error is documented on each unit.

Dimensions



Installation

1. Remove adhesive covering from foam gasket.
2. Push probe through hole in gasket until gasket adheres to underside of mounting flange.
3. Drill a 3/8" diameter hole in the duct for the sensor probe.
4. Mount flange to duct using screws provided.
5. Wire as shown.

