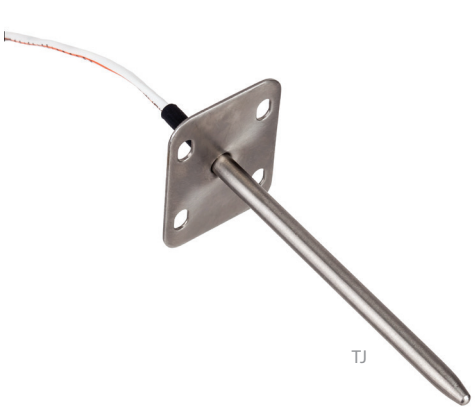
TJ SERIES

VAV Discharge Air Sensor for Reheat Applications



Easy installation

Stainless steel duct probe with mounting flange

Two wires

2-wire installation (optional quick disconnect)…installs in minutes

VAV systems

Installation-ready for VAV systems and plenum areas…saves money on job commissioning and warranty service

Plenum rated

Plenum rated cable standard

Application flexibility

4" or 8" (102 mm or 204 mm) duct probes

The TJ Series temperature sensors are highly accurate and cost effective, with trouble-free installation. The sensor is encased in a sturdy corrosion-resistant stainless steel probe. A variety of RTD/thermistor sensor and probe length options are available for maximum versatility in applications.

SPECIFICATIONS

Wiring	22 AWG; 2-wire: RTD/Thermistor
Probe	Stainless steel
Operating Temp	-25 to 105 °C (-13 to 221 °F)
LINITEMP OPTION	
Input Power	Class 2; 5 to 30 Vdc
Output	10mV/°C
Operating Temp	-25 to 105 °C (-13 to 221 °F)
Calibration Offset	1.5 °C (2.7 °F) typical; 2.5 °C (4.5 °F) max. at 25 °C (77 °F)*
Offset over Temp	1.8 °C (3.24 °F) typical; 3.0 °C (5.4 °F) max. over 0 to 70 °C (32 to 158 °F) range; 2.0 °C (3.6 °F) typical, 3.5 °C (6.3 °F) max. over -25 to 105 °C (-13 to 221 °F) range
WARRANTY	
Limited Warranty	5 years

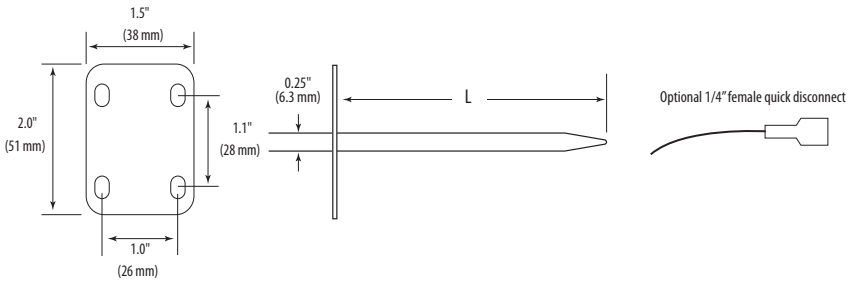
Increased cable length affects the readings of lower resistance RTDs (100R platinum, RTD).
* Room temperature offset documented on each unit.

Note: See page 202 for thermistor table.

APPLICATIONS

- VAV reheat boxes
- Dual duct boxes
- Fan coils
- Prove that hot water valve or electric heat is functioning properly
- Check individual reheating stages
- Check for hot water valve leaks
- Determine if damper actuators are functioning on dual duct boxes

DIMENSIONAL DRAWING



ORDERING INFORMATION

TJ □ □ R □ □

Probe Length "L"
B = 4"(102mm)
D = 8"(204mm)

Sensor Type
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
P = 10mV/°C, Linitemp
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

Output
R = Resistive

Cal Certificate
0 = None
1 = 1-point cal validation*
2 = 2-point cal validation*

Option
0 = Standard 5 ft. cable, No QDs
1 = 1/4" Female Quick Disconnects (QD)
2 = 1/4" QDs with 8 ft. leadwires
3 = 10 ft. cable, no QDs

Example: TJ B D R 2 1

*Not available with W and Y high-accuracy thermistors.

800.354.8556 | +1 503.598.4564 | sales@veris.com | intl@veris.com | www.veris.com