

TVI-10K Series

THERMISTOR TEMPERATURE SENSORS



Product Description

The TVI-10K-AN (Type III) and 10K-CP(Type II) Series temperature sensors are thermistor type sensors.

These sensors provide a predictable output over a specified temperature range to meet each manufacturers' required input values. Thermistors offer a high accuracy and interchangeability over a wide operating temperature range.

A thermistor higher resistance relative to Platinum RTD's , creates a larger signal with the same measuring current, negating most lead wire resistance problems and eliminating the need for signal conditioners.

These units are offered in Room, Room with Setpoint, Room with Override, Room with Setpoint and Override, and Room w/Setpoint, Override and RJ11 Jack, Stainless Steel Duct and Duct without Box, Immersion, Stainless Steel Plate, Raw, Bendable Copper and Stainless Steel Rigid Averaging, Strap-on, Bullet Probe, Button Sensor and Outdoor Air Configurations.

Setpoint options include a linear 400Ohm, 1K, 2K, 3K, 5K, 8.5K,10K, 20K or 100K slide potentiometer. An optional series resistor allows for any offset of the setpoint potentiometer. These may be either Direct or Reverse Acting.

Indication stickers for setpoint include Cool/Warm, 55 to 85, and 10 to 30°C. Others are available upon request.

Override options include a N/O switch in parallel with the sensor or a separate 2 pole terminal block for Tenant override.

All TVI sensors also come with optional 4 pin RJ11, 6 pin RJ12, or 1/8" RS232 stereo communication jack with terminal blocks for remote programming.

Product Specification

Output	10K Ohms @ 77°F(25°C)Type II	Accuracy	+/-0.2°C(0 to 70°C)
	10K Ohms @ 77°F(25°C)Type III	Dissipation Constant	3mW/°C
Temperature Range	-40 to 302°F (-40 to 150°C)	Stability	+/-0.13°C
Interchangeability	+/-0.2°C (0 to 70°C)	Operating Humidity	0 to 90% RH non-condensing

