

T SERIES



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Temperature Transmitters

Installer's Specifications

Input Power	4-20mA version - Loop powered 12-30VDC only, 30mA max; 0-5/0-10V versions - 12-30VDC/24VAC, 15mA max
Temp Output	2-wire, loop powered 4-20mA or 3-wire, 0-5V/0-10VDC (switch selectable in TWxA)
Sensor Type	Solid-state, integrated circuit (Transmitter)
Accuracy	$\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$) typical
Ranges	0° to 50°C (32° to 122°F), -40° to 50°C (-40° to 122°F)
Wiring (TOA and TDDA)	22AWG; 2-wire: 4-20mA; 3-wire: Voltage output models

NOTICE

- 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.

PRODUCT IDENTIFICATION

	Output	Range	Cal Certificate
TDDA	☐ M = 4-20mA V = 0-5/10VDC	☐ 1 = -40° to 50°C (-40° to 122°F) 2 = 0° to 50°C (32° to 122°F)	☐ 0 = None 1 = 1 point Cal validation 2 = 2 point Cal validation

	Output	Range	Cal Certificate
TOA	☐ M = 4-20mA V = 0-5/10VDC	☐ 1 = -40 to 50°C (-40° to 122°F) 2 = 0° to 50°C (32° to 122°F)	☐ 0 = None 1 = 1 point Cal validation 2 = 2 point Cal validation

	Local Display	Sensor Type	Setpoint/Override	Cal Certificate
TW	☐ L = LCD X = No	☐ = Transmitter selectable outputs	☐ 0 = None 2 = 1k Setpoint 3 = 10k Setpoint 4 = 1k Setpoint with override 5 = 10k Setpoint with override	☐ 0 = None 1 = 1 point Cal validation 2 = 2 point Cal validation

	Local Display	Sensor Type	Setpoint/Override	Cal Certificate
TW	☐ L = LCD X = No	☐ 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 J = 10k Dale, Thermistor	☐ K = 10k w/11k shunt, Thermistor M = 20k NTC, Thermistor N = 1800 ohm, Thermistor P = 10mV/ $^{\circ}\text{C}$, Linitemp R = 10k US, Thermistor S = 10k 3A221, Thermistor T = 100k, Thermistor	☐ 0 = None 1 = 1 point Cal validation 2 = 2 point Cal validation

QUICK INSTALL

TDDA

1. Drill a hole in the duct.
2. Insert the temperature probe, until the junction box is flat against the outer surface of the duct.
3. Use screws to secure the junction box to the duct.
4. Wire as shown (see Wiring section).

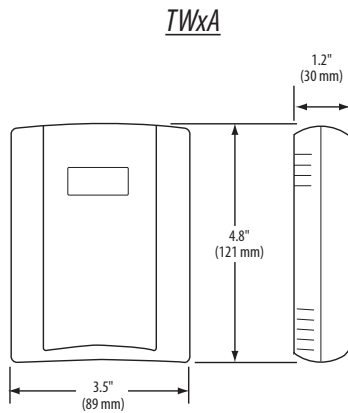
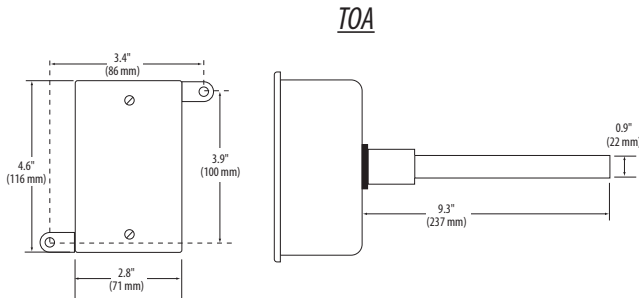
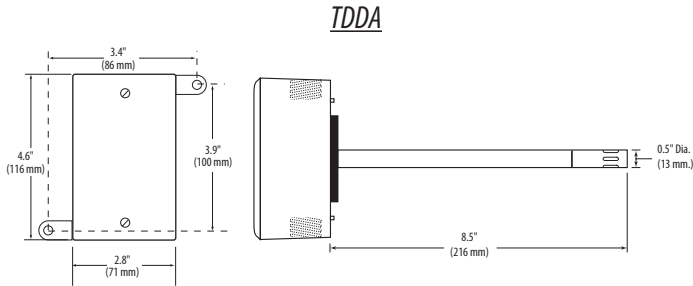
TOA

1. Locate sensor in an outside area, out of direct sunlight (e.g. under an eave, north side of building).
2. Mount the housing.
3. Wire as shown (see Wiring section).

TWxA and TW

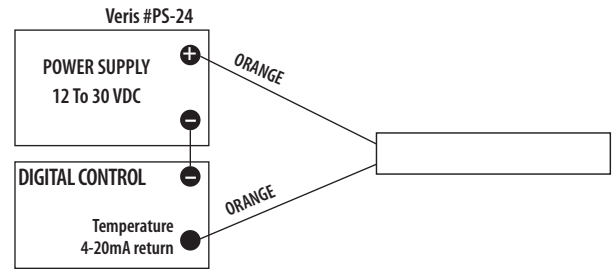
1. Mount the housing vertically on an interior wall in the area to be monitored, in a location where air circulates freely. Locate unit away from air outlets, corners, exterior walls, windows, and doors.
2. Wire as shown (see Wiring section).

DIMENSIONS

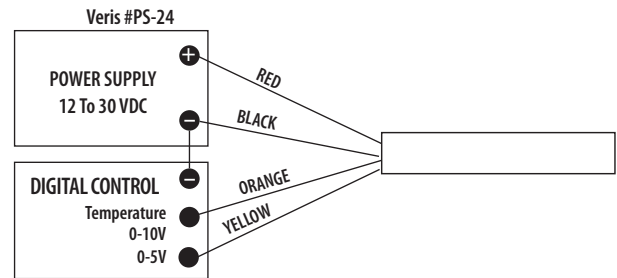


WIRING - TDDA AND TOA

TDDA/TOA – 4-20mA

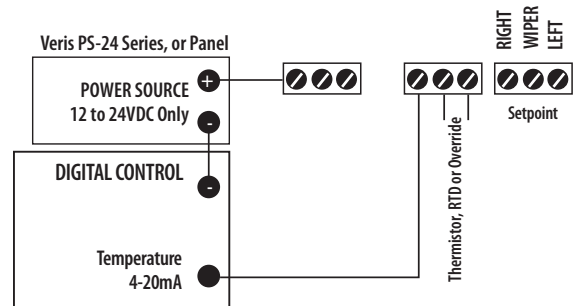


TDDA/TOA – 0-5/0-10V

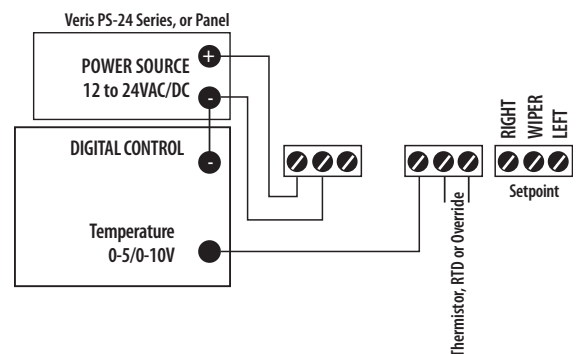


WIRING - TWXA

TWxA – 4-20mA



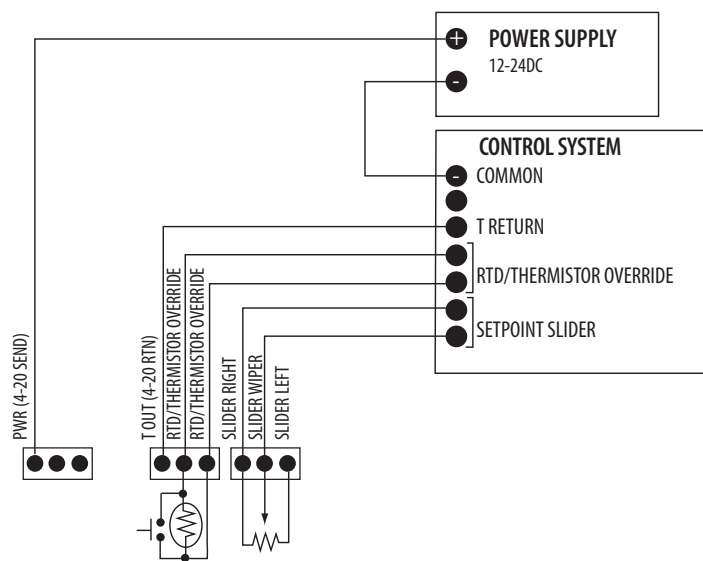
TWxA – 0-5/0-10V



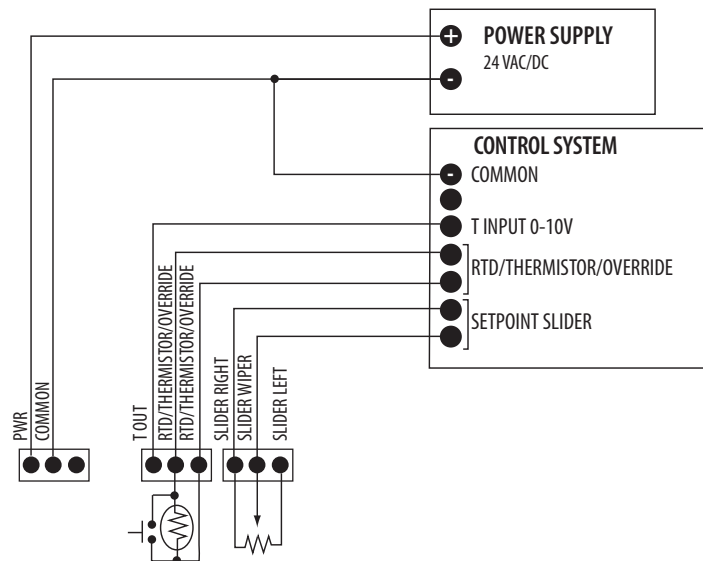
NOTE: For 24VAC transformer powered applications, one side of transformer secondary is connected to common. Isolation transformer or dedicated power supply may be required.

WIRING - TW

Current Output (2-Wire, 4-20mA)



Voltage Output (3-Wire, 0-10V)



CONFIGURATION - TW AND TWXA

