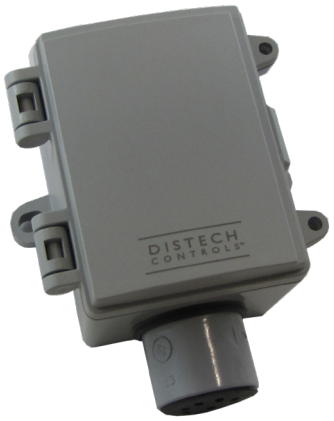
TS-Oyyy2X Transmitter Series

Outdoor Temperature Transmitters, Nema 4X



Overview

This series is composed of single-point temperature transmitters for outside air that use a precision platinum RTD sensor. All probes are constructed so as to provide excellent heat transfer and fast response, and they are potted so as to resist moisture penetration. A sun and wind shield is integrated into the enclosure.

Applications

- Used for measuring outdoor temperature

Features & Benefits

- Economical
- Proven long-term stability and performance
- Voltage and current output signals
- Low hysteresis and fast response
- Choice of scaled ranges and outputs

Accessories

Calibration Certificate

TS-NIST	Calibration Certificate

Note: Calibration certificates must be purchased at the time of purchasing the relative sensors.

Model Selection

		TS-	O	C04	2X	R1
Mounting Style	O = Outdoor					
Control Signal Output	C04 = Current, 4-20mA					
	V05 = Voltage, 0-5VDC					
	V10 = Voltage, 0-10VDC					
Enclosure	2X = Plastic enclosure, Nema 4X					
Temperature Range	R1 = 0° - 35°C (32° - 95°F)					
	R2 = 0° - 50°C (32° - 122°F)					
	R3 = 0° - 100°C (32° - 212°F)					
	R4 = -50° - 50°C (-58° - 122°F)					

Product Specifications

Environmental

Operating Temperature	-40°C to 85°C; -40°F to 185°F
Storage Temperature	-40°C to 85°C; -40°F to 185°F
Relative Humidity	0 to 95% Non-condensing

Transmitter/Sensor/Probe

Transmitter Accuracy	±0.1% of span, including linearity
Temperature Sensor Type[1]	1000Ω Platinum RTD
Sensor Accuracy	±0.3°C (±0.54˚F) @ 0˚C (32˚F)
Output Signal	4-20mA , 0-5 VDC, or 0-10 VDC
Probe Sensing Range	-40°C -85°C (-40°F -185°F)

Enclosure

Material	ABS, UL94-V0, IP65 (NEMA4X)
Shipping Weight	0.7 lbs (318 g)

Electrical

Input Voltage Effect	Negligible over specified operating range
Protection Circuitry	Reverse voltage protected and output limited
4-20 mA Loop Power Supply	15-35 VDC or 22-32 VAC
Minimum Loop Current	2 mA nominal (occurs with shorted sensor)
Maximum Loop Current	22.5 mA nominal (occurs with open sensor)
Maximum Loop Load	>600Ω
0-5 Vdc Power Supply	10-35 Vdc or 10-32 Vac
0-10 Vdc Power Supply	15-35 Vdc or 15-32 Vac
Maximum Output (Voltage)	Limited to <5.5 Vdc for 0-5 Vdc
<10.5 for 0-10 Vdc	
Maximum Current (Voltage)	5 mA nominal

Agency Approvals

Material[2]	UL94-V0

RoHS 2002/95/EC

Certified System ISO 9001

CE

1. Temperature sensor type stated is standard. Other temperature sensor types are available.
2. All materials and manufacturing processes comply with the RoHS directive

Dimensions