



TS-APyyy2X Transmitter Series

Flexible Duct Averaging Temperature Transmitters, Nema 4X

Overview



The TS-APyyy2X Transmitter Series are flexible duct temperature averaging transmitters. The multi-point duct (averaging) mounted temperature transmitter is equipped with a platinum RTD sensor and a transmitter that provides a high accuracy signal with excellent long-term stability, low hysteresis, and fast response. The sensing cable is constructed to provide excellent heat transfer, fast response time, and is available in several lengths and quantities of sensing elements.

Applications

- Used for measuring temperature on supply and return air ducts

Features & Benefits

- Economical
- Ease of installation
- Wide selection of thermistor curves
- Adaptable to most duct sizes
- Accurate temperature monitoring for increased comfort

Accessories

Calibration Certificate

TS-NIST	Calibration Certificate
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Note: Calibration certificates must be purchased at the time of purchasing the relative sensors.

Rubber Tube Clamps

TS-C00025	Rubber tube clamp for duct averaging temperature sensor 1/4" (6.35mm)
TS-C0003125	Rubber tube clamp for duct averaging temperature sensor 5/16" (8mm)
TS-C000375	Rubber tube clamp for duct averaging temperature sensor 3/8" (9.5mm)

Model Selection

	TS-	AP	C04	2X	072	R1
Mounting Style		AP = Duct averaging, flexible copper probe				
Control Signal Output		C04 = Current, 4-20mA V05 = Voltage, 0-5VDC V10 = Voltage, 0-10VDC				
Enclosure		2X = Plastic enclosure, Nema 4X				
Probe Length		072 = 72" (1.8M) 144 = 144" (3.6M) 240 = 240" (6M) 288 = 288" (7.3M)				
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 _____ -20°C to 60°C; -4°F to 140°F
Storage temperature _____ -20°C to 60°C; -4°F to 140°F
Ambient humidity _____ 0 to 95% Non-condensing

Transmitter/Sensor

Temperature Sensor Type¹ _____ 1000Ω Platinum, IEC 751, 385 Alpha, thin film (RTD)
Temperature Sensor Accuracy _____ ±0.3°C (±0.54°F) @ 0°C (32°F)
Transmitter Accuracy _____ ±0.1% of span, including linearity
Output Signal _____ 4-20mA current loop , 0-5 VDC, or 0-10 VDC

Enclosure

Material _____ Grey ABS; Type: UL94-V0; IP65 (NEMA 4X)
Shipping weight _____ 0.60lbs (0.2727kg)

Electrical

4-20 mA Loop Power Supply _____ 15-35 VDC or 22-32 VAC
RFI Rejection _____ Good RFI rejection of normal frequencies
Protection Circuitry _____ Reverse voltage protected and output limited
Wire Material _____ PVC insulated, parallel bonded (Type 2, 100 Plat. Uses FT4)
Maximum Loop Load _____ >600Ω
Maximum Output (Voltage) _____ Limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 vdc
Maximum Current (Voltage) _____ 5 mA nominal
0-5 Vdc Power Supply _____ 10-35 vdc or 10-32 Vac
0-10 Vdc Power Supply _____ 15-35 Vdc or 15-32 Vac
Minimum Current Loop _____ 2 mA nominal (occurs with shorted sensor)
Maximum Current Loop _____ 22.5 mA nominal (occurs with open sensor)

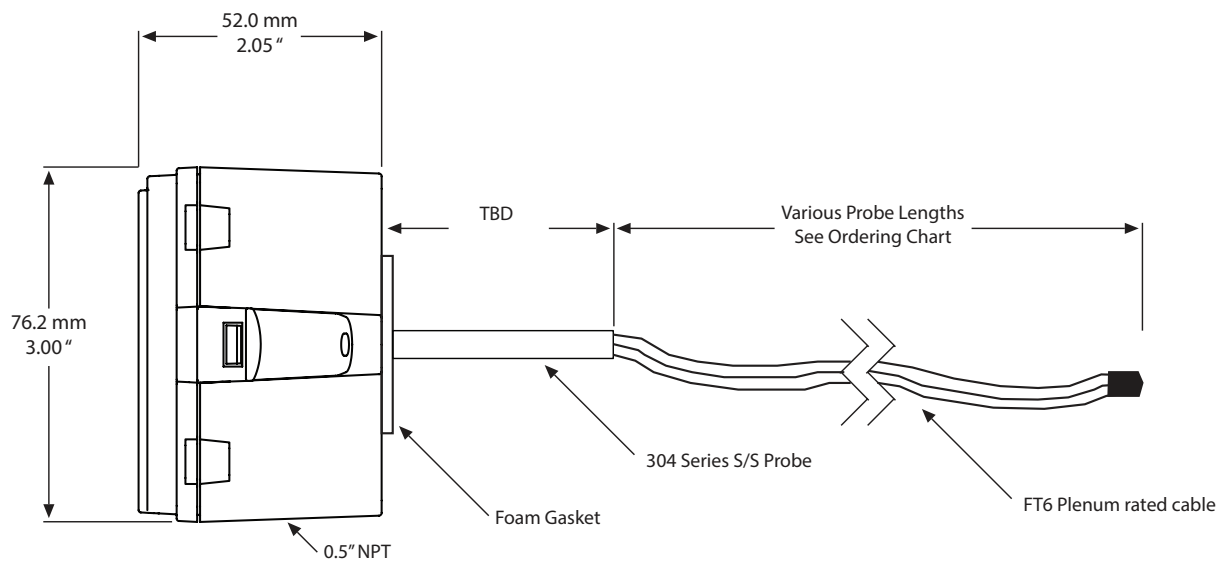
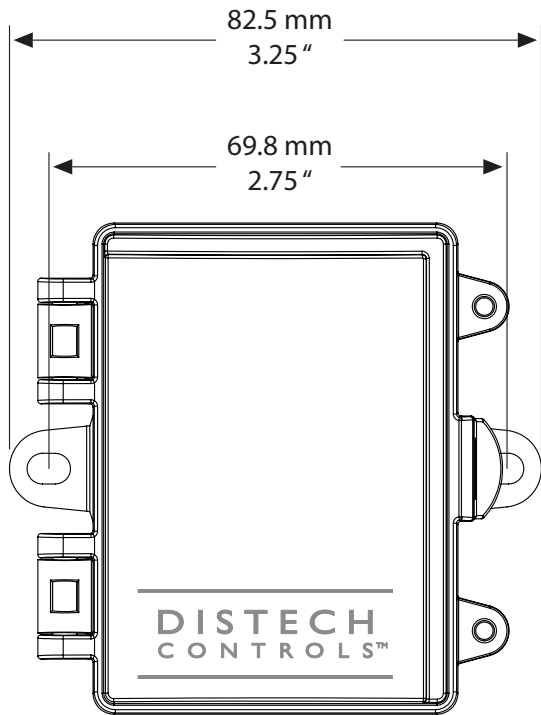
Agency Approvals

Material² _____ UL94-V0



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



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