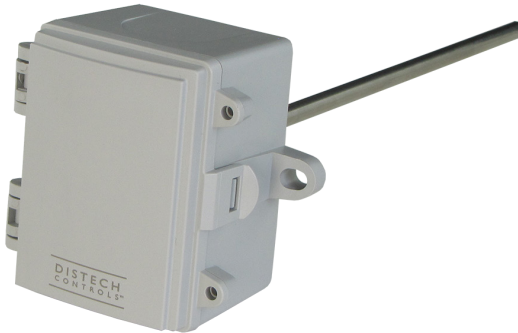




# TS-ARyyy2X Transmitter Series

Rigid Duct Averaging Temperature Transmitters, Nema 4X

## Overview



This series of rigid duct averaging temperature transmitters incorporates numerous precision platinum RTDs at equal distances, and a stainless steel probe. All probes provide excellent heat transfer and fast response, and they resist moisture penetration. This temperature transmitter is available with various probe lengths.

## Applications

- Used for measuring temperature on supply and return ducts
- Incorporated in chillers to monitor temperature gradients
- Used in heat exchangers and air handling units to provide temperature sensing for control of heating / cooling coils

## Features & Benefits

- Economical
- Ease of installation
- Probes made of corrosion resistant 304 stainless steel
- Accurate average temperature monitoring for increased comfort
- Proven long stability and performance

## 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.

## Model Selection

	TS-	AR	C04	2X	018	R1
Mounting Style		AR = Duct averaging, rigid stainless steel probe				
Control Signal Output		C04 = Current, 4-20mA V05 = Voltage, 0-5VDC V10 = Voltage, 0-10VDC				
Enclosure		2X = Plastic enclosure, Nema 4X				
Probe Length		018 = 18" (45cm) 024 = 24" (60cm) 036 = 36" (91cm)				
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)  
Ambient Humidity \_\_\_\_\_ 0 to 95% Non-condensing

## Transmitter/Sensor/Probe

Temperature Sensor Type<sup>1</sup> \_\_\_\_\_ 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  
Probe Sensing Range \_\_\_\_\_ -20 to 60°C (-4 to 140°F)  
Probe Material \_\_\_\_\_ 304 Series Stainless Steel  
Probe Dimension \_\_\_\_\_ 6.35 mm (0.25") Diameter  
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 \_\_\_\_\_ 0.60 lbs (0.2727 kg)

## 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)

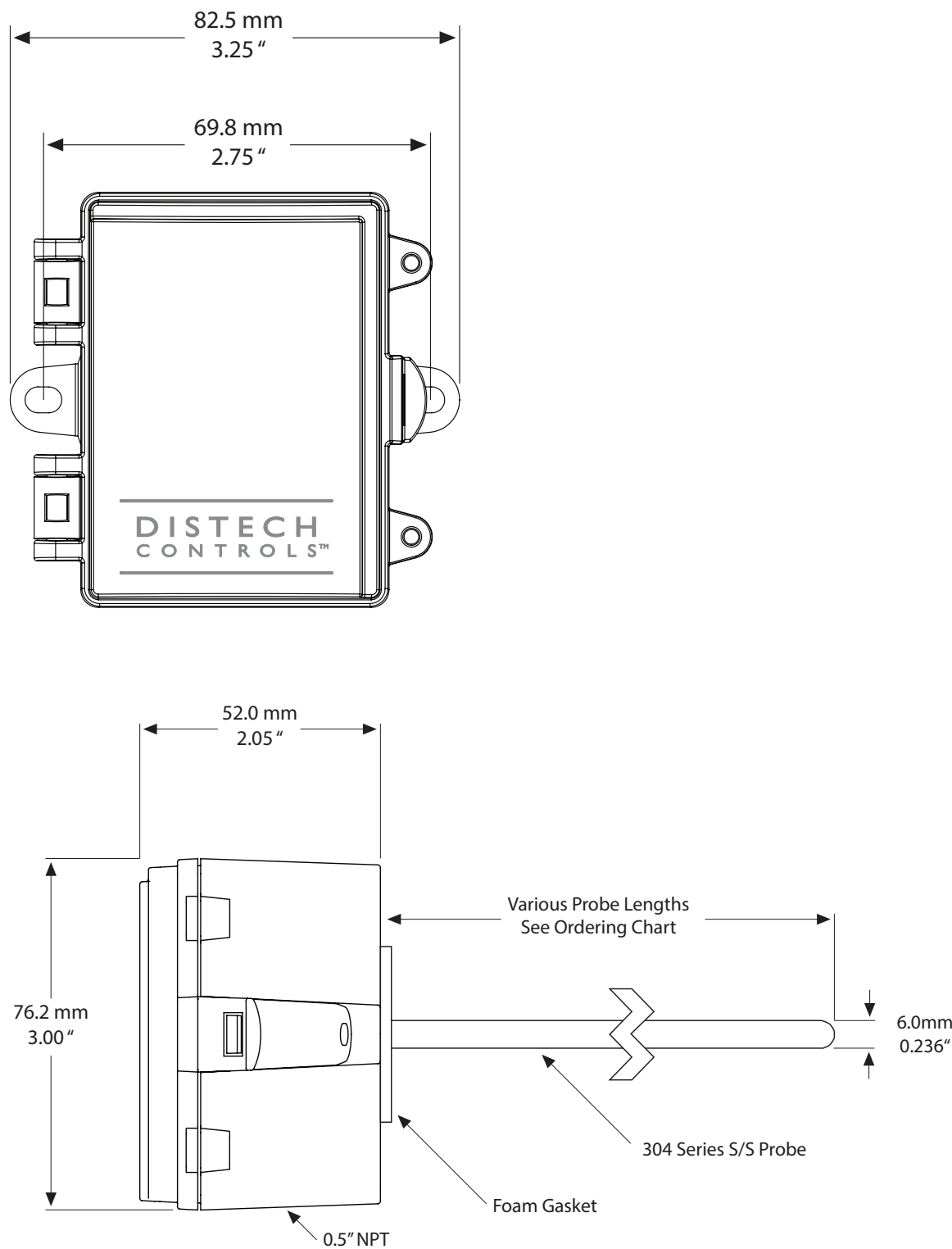
## Agency Approval

Material<sup>2</sup> \_\_\_\_\_ 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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