



**Copper Duct Averaging Temperature Transmitters** 



### Overview

The TS-AC Transmitter Series are copper duct averaging temperature sensors. These devices provide precision temperature sensing of mixed air ducts. This temperature sensor is available with various lengths and various enclosures to fit any application. The duct averaging sensor incorporates numerous sensors inside a copper tube. It acts as a single sensor, averaging any temperature change across the sensors.

## **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	
Note: Calibration partification must be purchased at the time of purchasing the relative concern			

#### **Rubber Tube Clamps**

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



## **Model Selection**

		TS-	AC	C04	PS	072	R1
Mounting Style	AC = Duct averaging, flexible copper probe						
Control Signal Output	C04 = Current, 4-20mA						
	V05 = Voltage, 0-5VDC						
	V10 = Voltage, 0-10VDC						
Enclosure	PS = Plastic square enclosure						
	PR = Plastic round enclosure						
	MJ = Metal junction box enclosure						
	MW = Metal weatherproof enclosure						
Probe Length	072 = 72"						
	144 = 144"						
	240 = 240"						
	288 = 288"						
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 Storage temperature Ambient humidity	-20°C to 60°C; -4°F to 140°F -20°C to 60°C; -4°F to 140°F 0 to 95% Non-condensing
Metal junction box enclosure (MI) =	Grey ABS; Type: UL94-5VB IP61 (NEMA 2) Grey ABS; Type: UL94-5VB; IP65/NEMA4X Galvanized Steel Type: IP50 (NEMA1) Cast Aluminum Type: IP64 (NEMA3X)
□ Round ABS w/ gasketed cover(E) -	0.60lbs (0.2727kg) 0.60lbs (0.2727kg) 1.00lbs (0.4550kg) 1.20lbs (0.5455kg)
Temperature Sensor Accuracy	
Electrical  4-20 mA Loop Power Supply  RFI Rejection  Protection Circuitry  Wire Material  Maximum Loop Load  Maximum Output (Voltage)  Maximum Current (Voltage)  0-5 Vdc Power Supply  0-10 Vdc Power Supply  Minimum Current Loop	- 15-35 VDC or 22-32 VAC
Agency Approvals	111.0.4. EV/D

 $<sup>1. \ \ \</sup>text{Temperature sensor type stated is standard}. \ \text{Other temperature sensor types are available}.$ 

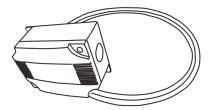
Material<sup>2</sup>

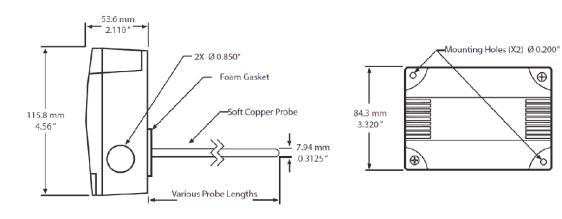
UL94-5VB

 $<sup>2. \;</sup>$  All materials and manufacturing processes comply with the RoHS directive

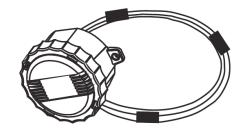
## **Dimensions**

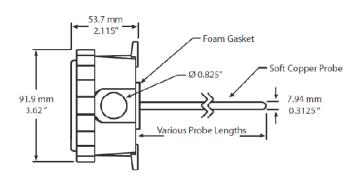


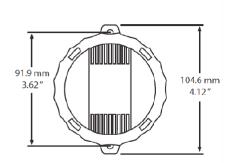




### **Round ABS Enclosure**

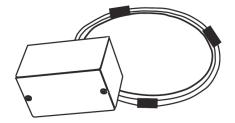


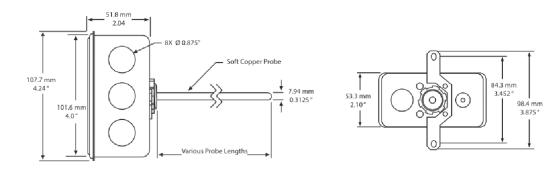


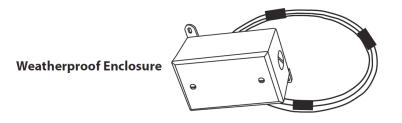


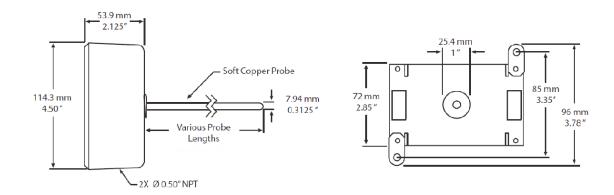
LJ LJ LJ 4/6

#### **Metal Enclosure**









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TS-AC Transmitter Series\_DS\_11\_EN