



# TS-AP Sensor Series

Flexible Duct Averaging Temperature Sensors



## Overview

This series of flexible duct averaging temperature sensors provide precision temperature sensing of mixed air ducts. It incorporates numerous sensors on an FT6 plenum rated wiring cable. It acts as a single sensor, averaging any temperature change across the sensors.

## Applications

- Used for measuring temperature on supply and return air ducts
- Incorporated in chillers to monitor temperature gradients

## Features & Benefits

- Economical
- Ease of Installation
- Wide selection of thermistor curves
- Proven long stability and performance
- Adaptable to most duct sizes

## Accessories

### 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-	AP	PS	072
Mounting Style	AP = Duct averaging, plenum cable probe			
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"			

# 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

## Enclosure

### Material:

- Plastic square enclosure (PS) Grey ABS; Type: UL94-5VB IP61(NEMA 2)
- Plastic round enclosure (PR) Grey ABS; Type: UL94-V5B; IP65/ NEMA4X
- Metal junction box enclosure (MJ) Galvanized Steel Type: IP50 (NEMA1)
- Metal weatherproof enclosure (MW) Cast Aluminum Type: IP64 (NEMA3X)

### Shipping Weight:

- Plastic square enclosure (PS) 0.60 lbs (0.2727 kg)
- Plastic round enclosure (PR) 0.60 lbs (0.2727 kg)
- Metal junction box enclosure (MJ) 1.00 lbs (0.4550 kg)
- Metal weatherproof enclosure (MW) 1.20 lbs (0.5455 kg)

## Electrical

Dissipation Factor	2.2mW/K (Thermistor)
Max Power @ 25°C (77°F)	75mW (Thermistor)
Thermal Time Constant	Less than 10s (Thermistor)

## Temperature Sensor

Type <sup>1</sup>	10kΩ NTC thermistor, Type 2
Accuracy	±0.2°C; ±0.36°F

## Agency Approvals

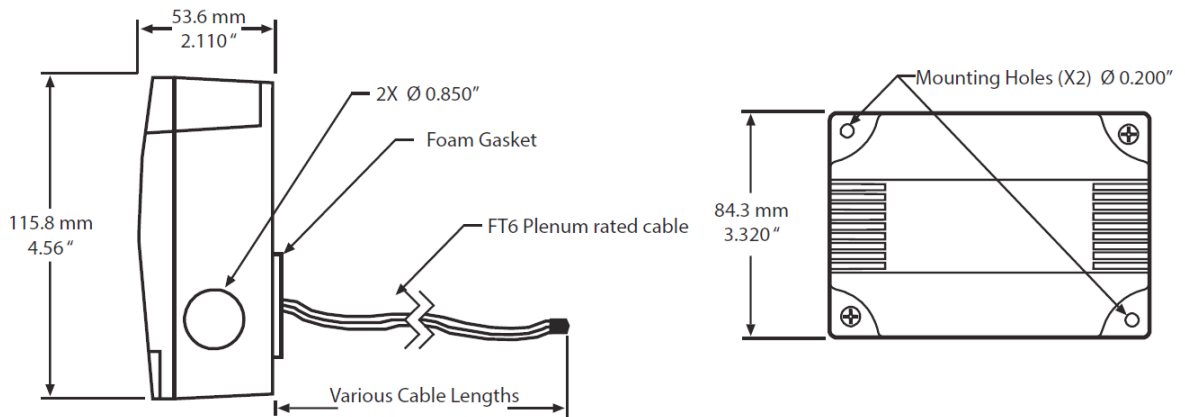
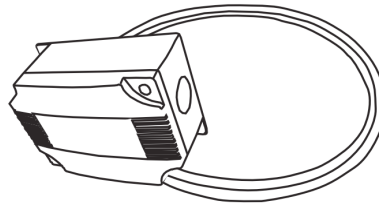
Material <sup>2</sup>	UL94-5VB
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1. Temperature sensor type stated is standard. Other temperature sensor types are available.

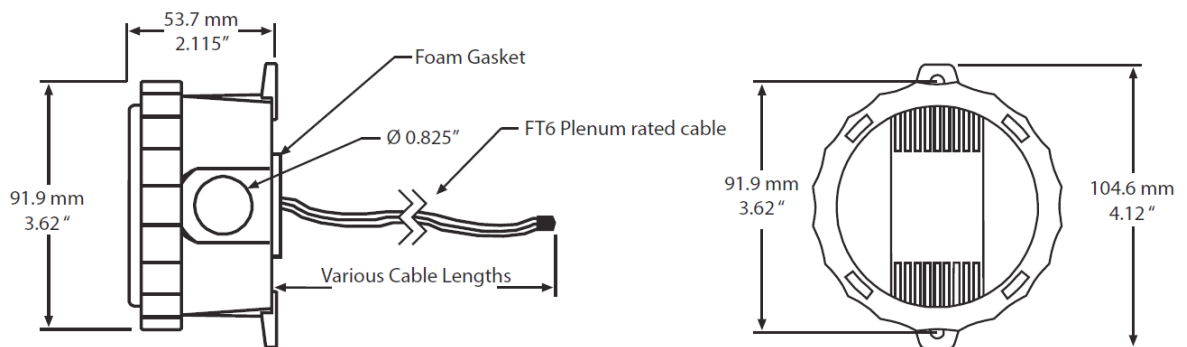
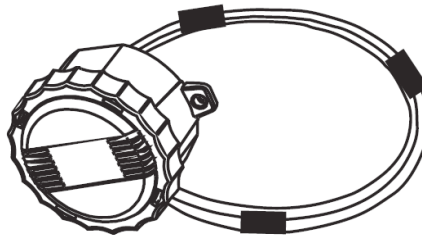
2. All materials and manufacturing processes comply with the RoHS directive

# Dimensions

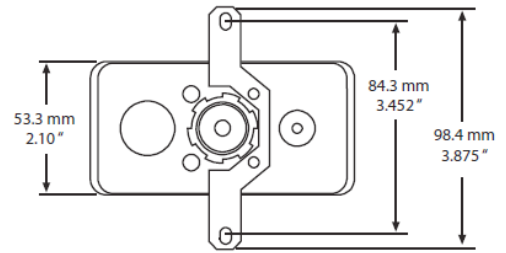
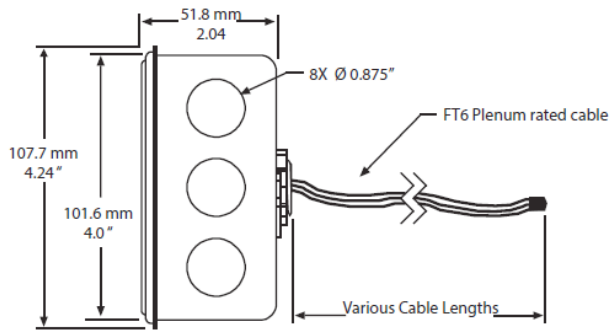
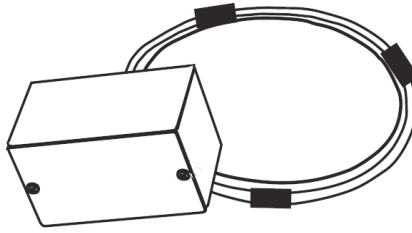
**ABS Enclosure**



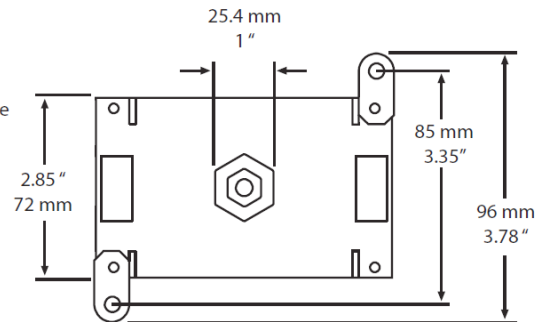
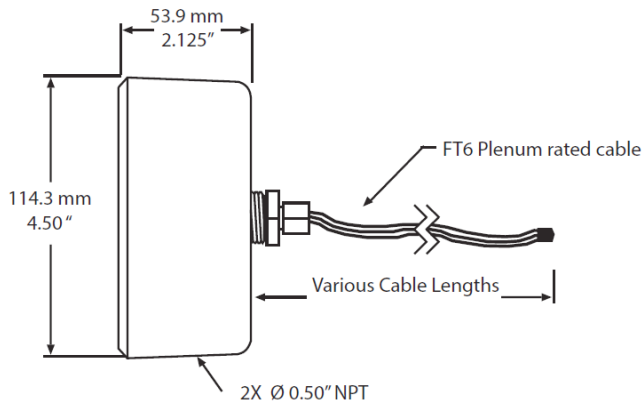
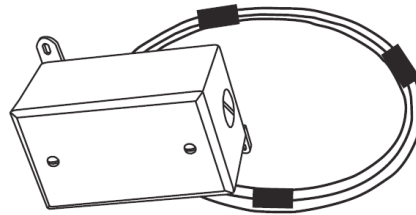
**Round ABS Enclosure**



**Metal Enclosure**



**Weatherproof Enclosure**



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