



TAC MicroFlo II™ TAC MicroZone II®

Room Temperature Sensors

The room temperature sensors for the TAC MICROFLO II™ and TAC MICROZONE II® product families provide the benefits of high accuracy industry standard thermistors along with the following standard features: setpoint adjuster, push button override, UL-approval for mounting directly in supply air plenums and a communications jack for connection of the TAC Personal System Interface.

The room temperature sensors are provided with a contemporary look and come in a variety of cover configurations. The sensors can be mounted on a standard 2x4 handy box, directly to a wall, or to a DIN style junction box.

- High accuracy, stabilized electronic sensors removes the need to recalibrate over time.
- Accurate temperature sensors provide sensor inter-changeability without recalibration.
- Contemporary construction provides an attractive look for the most modern facilities.
- Compatibility with 2x4 handy boxes and DIN junction boxes provide mounting flexibility.
- Cover options provide custom tailored features and appearance.
- Integral setpoint allows tenant control of their own environment.
- Push button override capabilities provide tenant overrides to and from the occupied mode for after hours operation.
- RJ-12 communications jack allows interface between the TAC Personal System Interface (PSI) and the TAC MICROFLO II/ MICROZONE II controller for device monitoring setup and editing.
- Mounting within air plenums is assured through UL-934G listing.
- Tamper resistant cover deters unauthorized personnel from accessing wiring.
- Easily accessible RJ-12 jack allows easy plug-in of TAC Personal System Interface.
- Proper ventilation guarantees sensor will respond quickly to the varying zone conditions.

Table-1 Specifications.

Part Number	Setpoint Adjustment	Push Button Override	Sensing Element	Communications Jack
TS-90220-850	No	No	Thermistor 10K ohms with 11 K ohms shunt	RJ-12
TS-90230-850	No	Yes		
TS-90250-850	55 °F to 85 °F			
TS-90250-852	10 °C to 30 °C			

SPECIFICATIONS

Temperature Sensing Element:

Resistance, Thermistor, 10,000 ohms at 77°F (25°C) +/- .36°F (+/- 0.2°C) shunted with an 11K ohm 0.1% resistor

Maximum Drift Over Time, +/-0.045°F (+/- 0.025°C) per year

Resistance Range, See Table 2

Setpoint Adjuster:

Adjustment Range, 55°F to 85°F or 10°C to 30°C 100K ohm Slider shunted with an 1.01K ohm 0.1% resistor

AMBIENT LIMITS:

Temperature,

Shipping and Storage 40°F to 160°F (-40°C to 71°C)

Operating 40°F to 140°F (4°C to 60°C)

Humidity, 5 to 95% RH, non-condensing

Field terminations:

Coded screw terminals. 18 to 24 AWG, copper conductors only

Sensor, 2 wires

Setpoint, 2 wires

RJ-12 Communications Jack, 4 wires

PSI, 1 wire

Mounting Locations:

NEMA type 1 only. 5' from floor in a location representative of the zone temperature free from drafts and direct sunlight

Enclosure Cover:

Shadow white plastic

Dimensions:

4-3/16 H x 3-1/4 W x 1-31/64 D in. (122 x 83 x 38 mm)

OPTIONS

AT-1155

Plastic Guard

AT-1163

Wire Guard (requires AT-504)

Table-2 Temperature Vs Resistance.

Temperature °F (°C)	Nominal Resistance Values (in 1000 ohms)
40 (4)	7.596
50 (10)	6.938
68 (20)	5.798
77 (25)	5.238
86 (30)	4.696
104 (40)	3.707
122 (50)	2.875
140 (60)	2.206

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