



Met One
Instruments

060A-2 Air Temperature Sensor

T-200A Air Temperature Sensor

062 Air Temperature Sensor

064 Air Temperature Sensor

Met One Instruments' temperature sensors are precision, extended-range thermistor devices that accurately measure ambient air temperature in field settings.

This precise performance is a benefit of the sensors' high resistance sensitivity, which eliminates problems associated with line lead length, noisy environments, and poor connections.

FEATURES

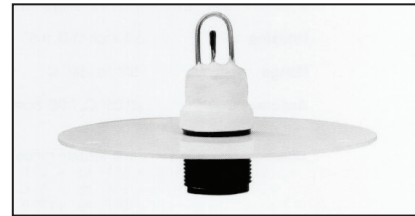
- Rapid response time; 10 seconds in still air
- Calibration traceable to NIST
- Interchangeable without recalibration
- High resistance values to minimize signal line resistance
- 'Free air' suspension of thermistor bead

Operation

The solid-state, multi-element thermistor devices produce a relatively large resistance change per degree of temperature change, allowing the use of normal signal voltages without self-heating of the sensor. When used with signal conditioning modules, the resultant output is a precise analog voltage.



060A Air Temperature Sensor



064 Air Temperature Sensor



T-200A Air Temperature Sensor

SPECIFICATIONS

Common Specifications

Sensing Element:	Multi-stage solid state thermistor, highly linearized
Time Constant:	Less than 10 seconds in still air
Self-Heating:	None

Model 060A-2

The Model 060A-2 is designed for general-purpose ambient air temperature measurement.

Housing:	3/8 in (9.5 mm) OD x 6 in (152.4 mm)
Range:	-50°C to +50°C (-58°F to +122°F)
Accuracy:	±0.1°C (0.18°F) throughout range, PSD compliant
Connection:	1 ft pigtailed (for use with 076B Radiation Shield)

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SPECIFICATIONS

Model 062

The Model 062 sensor is used in matched pairs to measure differential temperature (ΔT). Matching of the sensors provides for higher accuracy of measurement.

Housing:	3/8 in (9.5 mm) OD x 6 in (152.4 mm)		
Range:	-50°C to +50°C (-58°F to +122°F)		
Accuracy:	±0.05°C (0.09°F) between probe set (PSD Compliant)		
Linearity Deviation:	For a system	Max. error per degree of	Max. error
	range of:	differential temperature:	over range:
	-5°F to +5°F	.02°F	.05°F
	-5°C to +5°C	.02°C	.05°C
	-5°F to +10°F	.02°F	.1°F
	-5°C to +10°C	.02°C	.1°C
	-10°F to +20°F	.02°F	.2°F
Connection:	1 ft pigtails (for use with 076B Radiation Shield)		

Model 064

The Model 064 uses the same sensing network as the Model 060, but is configured to mount directly to the Model 073B or 5980 Radiation Shield. The sensor is supplied with a screw-type connector which connects directly to the signal cable.

Housing:	Mounting plate, white epoxy finished aluminum, with military quality screw connector for sensor cable. Thermistor bead is protected by a stainless steel bumper.		
Range:	064-1	-30°C to +50°C (-22°F to +122°C)	
	064-2	-50°C to +50°C (-58°F to +122°F)	
	(Other ranges available)		
Accuracy:	064-1	±0.15°C (0.27° F)	
	064-2	±0.1°C (0.18°F), PSD compliant	
Cable:	PN 1958 Cable Assembly; specify length in feet or meters		

T-200A Platinum 100 Ohm (PT100)

The T-200A is a 100 Ohm platinum based RTD, designed for accurate wide range temperature measurements outside the range of the thermistor probes.

Range:	Temperature:	-50° to +50° C (-58 to +122° F)
	Optional Calibrations:	-50°C to +70°C or -40°C to +60°C (-58°F to +158°F or -40°F to +140°F)
Performance	Sensitivity:	Alpha 0.00385 +/- 0.00002 Ohm/ohm/deg C
	Nominal Resistance:	100 ohm +/- 0.1 ohm resistance (Ro)
	Time constant:	45 sec, approx. in moving air
	Accuracy:	+/- 0.1°C (0.18°F)
	Configuration:	4 Wire Connection
Connection:	8" pigtails (for use with 076B Radiation Shield)	

Specifications are subject to change at any time.

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