

Air Temperature Sensors

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.

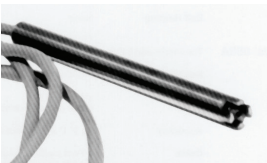
- Features**
- Rapid response time; 10 seconds in still air.
 - Calibration traceable to NIST.
 - Interchangeable without recalibration.
 - High resistance values to minimize signal line resistance.
 - 'Free air' suspension of thermistor bead.

065 Air Temperature Sensor



The Model 065 uses the same sensing network as the Model 061, but is configured to mount directly to the Model 073B or 5980 Naturally Aspirated Radiation Shields. The sensor is supplied with a screw-type connector which connects directly to the signal cable.

061 Air Temperature Sensor



Met One Instruments' Model 061 is designed for general-purpose ambient air temperature measurement. 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.

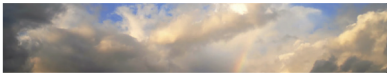
The 061 mounts in Met One Instruments' 076B Motor Aspirated Shield.

T-200 Air Temperature Sensor



Model T-200 is a highly stable, 100 Ohm platinum based RTD, designed for accurate wide range temperature measurements outside the range of the thermistor probes. Each calibrated standard T-200 sensor has a unique calibration constant that can be programmed into your measuring device for higher accuracy making it ideal for differential temperature (ΔT).

The T-200 mounts in both the 076B and 5980 Radiation Shields.



065 Specifications

Housing: Mounting plate, white machined plastic with crenelations, with quality military screw connector for sensor cable. Thermistor bead is protected by a plastic bumper.

Range: -30°C to +50°C (-22°F to +122°F)

Accuracy: ±0.15°C (0.27° F)

Cable: PN 1958 Cable Assembly;
Three lengths available, 5M/16Ft, 12M/40Ft 25M/82Ft

061 Specifications

Housing: 3/8 in (9.5 mm) OD x 6 in (152.4 mm)

Range: -30°C to +50°C (-22°F to +122°F)

Accuracy: ±0.15°C (0.27°F) throughout range

Connection: 1 Ft pigtails (for use with 076B Radiation Shield)

T-200 Specifications

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)

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) throughout the range, PSD compliant

Configuration: 4 Wire Connection

Connection: 8" pigtails (for use with 076B Radiation Shield)

Cable: P/N 1734 For use with 5980 Naturally Aspirate Shield
Requires P/N 10418 Adapter Plate
Three lengths available, 5M/16Ft, 12M/40Ft 25M/82Ft