

June 2006

Description

Moore Industries' BIMETAL Dual-Mode Remote Thermometer provides on-site indication of process temperature conditions, and simultaneously provides a mV or ohm signal proportional to temperature for input to a transmitter, Remote Terminal Unit (RTU), controller, recorder, indicator, PLC, DCS or SCADA system.

No Power Supply Required—The BIMETAL requires no power supply at the point of measurement. It is composed of a rugged thermowell probe assembly that contains Moore Industries' RTD or thermocouple WORM sensor, combined with a large analog display. Both the sensor and display are NIST traceable, and can be quickly calibrated in the field.

Combination BIMETAL Thermometer and Temperature Transmitter

Moore Industries offers a complete range of temperature transmitters for converting the BIMETAL's low-level mV or ohm signal to a 4-20mA or 1-5Vdc signal. This high-level, noise-resistant signal is ideal for sending process data long distances back to a field-mounted RTU or directly to a control room.



The BIMETAL's large, easy-to-read display can be accurately read at numerous viewing angles.

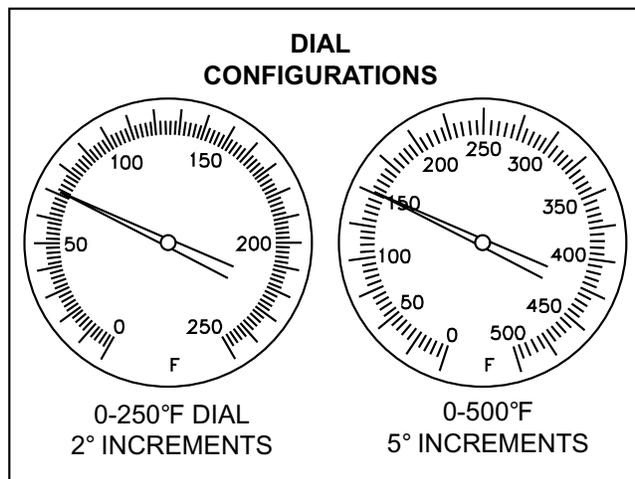
Easy-to-Read Bimetal Thermometer

- Local temperature indication on a large 3-inch dial
- 0-250°F and 0-500°F dial ranges
- Hermetically sealed per ASME B40.3
- Field-adjustable calibration
- NIST traceable calibration of up to 1% of reading

Integral RTD and Thermocouple Probes

- Provides remote monitoring of process conditions
- Choice of mounting styles
- Hermetically-sealed, high-temperature wires
- High accuracy of up to 0.04% of reading (0.1% of reading is standard)
- mV or ohm output, or 4-20mA or 1-5Vdc when combined with a Moore Industries temperature transmitter
- Installs in either 0.25-inch or 0.38-inch thermowell bores

Figure 1. The BIMETAL's large, easy-to-read dial comes in 0-250°F and 0-500°F ranges.



BIMETAL

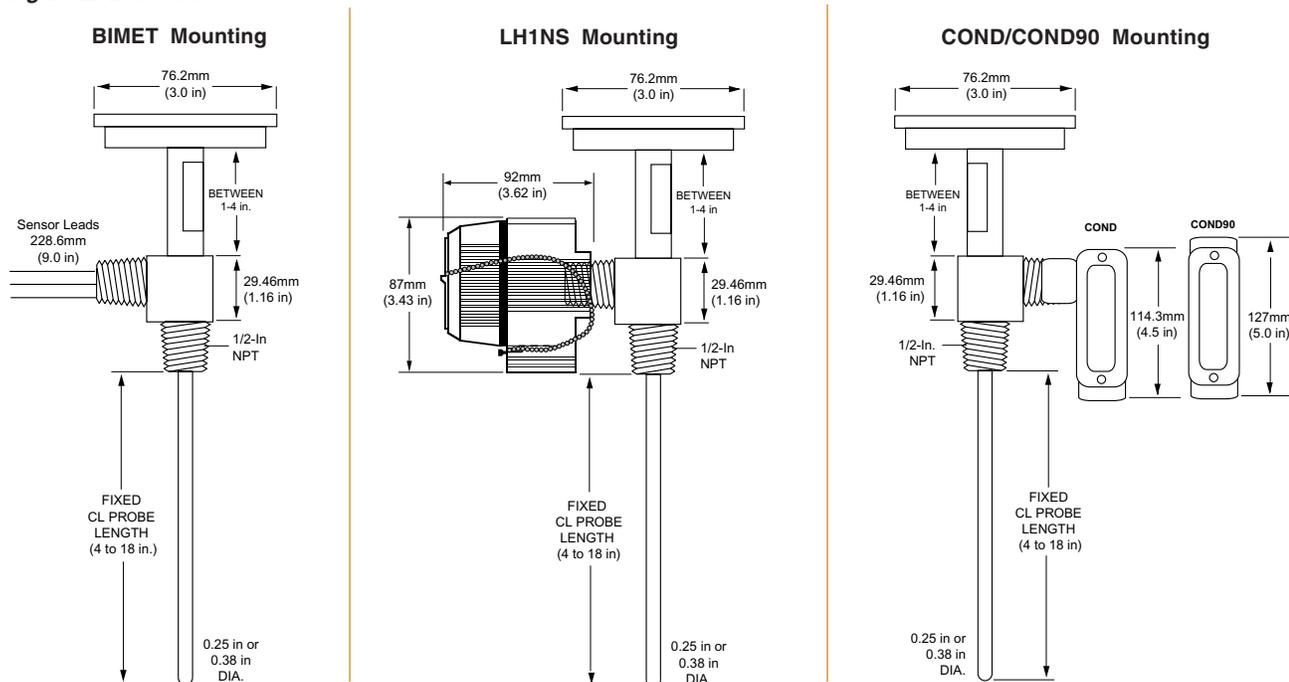
Dual-Mode Remote Thermometer

Ordering Information

| Unit | Sensor Type | Stem DIA. | Material | Dial Range | Options | Stem Length | Mounting |
|--|--|---|---|------------------------|---|--|---|
| BIMET Dual-Mode Remote Thermometer | PT1-3 Platinum RTD; 3-Wire; 100 ohm; alpha = 0.00385 | D25 0.25-Inch Diameter (standard) | S316 Stainless Steel 316 (standard) | 250F 0-250°F | -0.04% RTD with 0.04% of reading calibration capability | CL? Replace “?” with stem length; Specify in 1/4-inch increments (4-inches minimum, 18-inches maximum) EXAMPLE: CL6.75 | BIMET Standard dial and probe assembly LH2NS Dial and probe assembly integrated with a connection head with terminal block COND Dial and probe assembly integrated with in-line conduit connection COND90 Dial and probe assembly integrated with conduit connection with 90 degree wire entry |
| | PT1-4 Platinum RTD; 4-Wire; 100 ohm; alpha = 0.00385 | | | | | | |
| | PT10-3 Platinum RTD; 3-Wire; 1000 ohm; alpha = 0.00385 | | | | | | |
| | PT10-4 Platinum RTD; 4-Wire; 1000 ohm; alpha = 0.00385 | | | | | | |
| | TC-JU J-Type T/C; Ungrounded | D38 0.38-Inch Diameter | S304 Stainless Steel 304 | 500F 0-500°F | -0.06% RTD with 0.06% of reading calibration capability | | |
| | TC-KU K-Type T/C; Ungrounded | | | | | | |

To order, specify: Unit / Sensor Type / Stem Diameter / Material / -Dial Range -Options -Stem Length [Mounting]
Model Number Example: BIMET / PT10-4 / D25 / S304 / -500F -0.04% -CL6.75 [BIMET]

Figure 2. Dimensions



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