

PMA 2160 THERMISTOR TEMPERATURE PROBE INTERFACE

SENSORS
**INDUSTRIAL PROCESS SENSING
AND OEM PRODUCTS**

Delivery on all products is
Stock to 2 weeks.

Every product is calibrated to
NIST traceable standards
before shipment.



The PMA 2160 thermistor temperature probe interface permits a thermistor temperature probe to be attached to the PMA2100 meter.

The thermistor probes are factory calibrated so they can be easily interchanged without compromising accuracy of the measurement. The probes attach to the PMA 2160 thermistor temperature probe interface via RJ12 connector. The Surface temperature probe (PMA2161) can be used in situations where the temperature of a solid mass is needed, as in a semiconductors heat-sink or to monitor skin temperature. Measurements of soil temperature can be achieved using the stainless steel immersion probe (PMA2163), Air or gas temperatures can be obtained using the stainless steel air/gas probe (PMA2164), and for general purpose temperature measurements the PMA2162 or PMA 2163 probes can be used.

The relationship between temperature and resistance of the thermistor is highly non-linear. However, using the Steinhart-Hart formula programmed into the PMA2160 interface, the PMA2100 linearizes this relationship and calculates temperature to the accuracy of 0.35°C. The Steinhart-Hart formula has wide industry acceptance for computation of temperature.

Uses

Measures temperature in a range of -40 to +150°C with high accuracy and stability.

Alternate Views



PMA2161 SURFACE TEMPERATURE PROBE

**Range: -40 to
+150°C Size: 0.375"
dia., 0.125" high**

PMA2162 Miniature vinyl coated immersion probe

Range: -40 to +80°C Size: 0.155" dia.,
0.375" long

PMA2163 Stainless steel immersion probe

Range: -40 to +150°C Size: 0.125" dia.,
6.0" long

PMA2164 Stainless steel air/gas probe

Range: -40 to +150°C Size: 0.5" dia., 6.0"
long

Wide temperature range 0.35°C accuracy
Excellent long term stability

Interchangeable probes Probes for
various media available Selectable units

Fast response Small size

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