

PMA2170 HUMIDITY PROBE

SENSORS

WARNING: INVALID ARGUMENT SUPPLIED FOR FOREACH() IN /HOME/SOLAR /PUBLIC_HTML /WP-CONTENT/THEMES /SOLAR /TPL_PRODUCTSSINGLE.PHP ON LINE 56



Delivery on all products is Stock to 2 weeks.

Every product is calibrated to NIST traceable standards before shipment.

The PMA2170 Humidity Probe is an accurate smart probe for measuring relative humidity and ambient temperature. A memory chip is embedded into the probe to store the signal processing and unit conversion program for the probe.

The relative humidity is the ratio of the actual vapor pressure to the saturation vapor pressure at the air temperature, expressed in percent. Relative humidity displays an inverse relationship with absolute temperature when the vapor pressure is held constant.

The Dewpoint calculating program is also included in the memory capsule. The Dewpoint is the temperature the air would have if it were cooled, at constant pressure and water vapor content, until saturation (or condensation) occurred.

Humidity is a very important factor for the comfort of humans and animals, operating sensitive electronic equipment, working with high voltage or static sensitive components. Fabrics, adhesives and paper change their properties with the ambient humidity. Even some precision mechanisms might be affected by humidity.

Uses

Accurately measures Relative Humidity and Ambient Temperature

Alternate Views



Applications

Flat spectral response measurements

IR applications

Demonstration Reference measurements

Features

Wide temperature & humidity range
Instantaneous Dewpoint reading
High accuracy

Excellent long term stability
Selectable units

Fast response
Interchangeable sensor

Specifications

Humidity range:

0 to 100% RH

Temperature range :

-10 to +60 °C

Humidity accuracy

±3% (10 - 90% RH)

Temperature accuracy:

±1°C

Stability:

better than 1%/year

Self heating power:

less than 100µW

Display resolution:

0.1°F, 0.1°C, 0.1K, 0.1%RH

Units:

°F, °C, K for Dewpoint and temp., % for RH

Diameter:

1" handle, 0.5" sensor

Length:

11" with handle

Weight:

10oz

Cable:

5ft (1.5m)