

+ Type K THERMOMETER

DEW POINT HUMIDITY METER

Model : HD-3008

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

+ TYPE K THERMOMETER

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| FEATURES | |
|---|--|
| * Humidity + Dew point + Type K Thermometer are combined into one meter, intelligent. | * Records Maximum and Minimum readings with recall. |
| * Humidity measurement uses a high precision thin-film capacitance sensor for fast response, not depend on air movement past the probe. | * Data hold function for stored the desired value on display. |
| * Thin-film capacitance sensor for humidity measurement, high precision. | * RS 232 PC serial interface. |
| * Type K thermometer build in temperature linearity & precision cold junction compensation circuit, high accuracy. | * Show the humidity & temperature values on the LCD display at same time. |
| * Microprocessor circuit assures maximum possible accuracy, provides special functions and features. | * Temperature function for °C or °F be selected by push button on front panel easily. |
| * Large LCD with two display, easy readout. | * Built-in low battery indicator. |
| * Heavy duty & compact housing case, designed for easy carry out & operation. | * Humidity probe built-in thermistor sensor for temperature measurement, fast response time. |
| * Auto shut off saves battery life. | * Wide range both of humidity & temp. measurement. |
| | * Separate humidity & temp. probe, easy operation. & remote measurement. |

| GENERAL SPECIFICATIONS | | | |
|--|--|----------------------|---|
| Circuit | Custom one-chip of micro-processor LSI circuit. | Operating Humidity | Main instrument, Less than 80% R.H. |
| Display | 51 mm x 32 mm, 15 mm (0.6") digit size. dual function LCD display, | Power Supply | 006P DC 9V battery (Alkaline or Heavy duty type). |
| Measurement | <i>Humidity meter :</i> R.H. (Relative Humidity) Temperature - °C, °F. | Power Current | Approx. DC 7 mA. |
| | <i>Dew point :</i> °C, °F. | Weight | 250 g/0.55 LB (battery included). |
| | <i>Type K thermometer</i> | Dimension | Main instrument: 195 x 68 x 30 mm (7.6 x 2.6 x 1.2 inch) |
| <i>Humidity (Dew Point) meter :</i> Humidity : High precision thin-film capacitance sensor. Temperature : Thermistor. | Humidity Sensor Probe: Round 26 mm Dia. x 160 mm. | | |
| Sensor | <i>Type K thermometer :</i> Thermocouple probe. | Accessories | Instruction manual..... 1 PC. Humidity probe..... 1 PC. Carrying Case..... 1 PC. |
| | | Optional Accessories | 33% RH HUMIDITY CALIBRATPR Model: RHA-33 75% RH HUMIDITY CALIBRATPR Model : RHA-75 Type k thermocouple Probe : TP-01, TP-02A, TP-03, TP-04. RS232 cable, UPCB-02 Application software, SW-U801-WIN Application software, sw-u801-WIN |
| Data Hold | By push button | | |
| Memory Recall | Maximum & Minimum. | | |
| Sampling Time | Approx. 0.8 second. | | |
| Power off | Auto shut off, saves battery life, or manual off by push button. | | |
| Data Output | RS 232 PC serial interface. | | |
| Operating Temperature | 0 to 50 °C. | | |

| ELECTRICAL SPECIFICATIONS (23 ± 5 °C) | | | |
|---|------------------------------|--|---|
| Humidity/ Temperature | | | |
| Humidity | Range | 10 % to 95 % R.H. | |
| | Resolution | 0.1 % R.H. | |
| | Accuracy (after calibration) | 70 % R.H. - ± (3 % reading + 1 % R.H.) < 70 % R.H. - ± 3% R.H. | |
| Temperature | Range | 0 °C to 50 °C, 32 °F to 122 °F. | |
| | Resolution | 0.1 | |
| | Accuracy | °C - ± 0.8 °C, °F - ± 1.5 °F. | |
| Dew Point | | | |
| °C | Range | -25.3 °C to 48.9 °C | |
| | Resolution | 0.1 °C | |
| °F | Range | -13.5 °F to 120.1 °F. | |
| | Resolution | 0.1 °F. | |
| <i>Remark :</i> | | | |
| * Dew Point display value is caculated from the Humidity/Temp. measurement automatically. | | | |
| * The Dew Point accuracy is sum accuracy value of Humidity & Temperature measurement.. | | | |
| Type K Thermometer | | | |
| | Range | Resolution | Accuracy |
| °C | -100.0 to 1300.0 °C | 0.1 °C | -50.0 to 1300.0 °C : ± (0.2 % + 0.5 °C) |
| | | | -50.1 to -100.0 °C : ± (0.2 % + 1 °C) |
| °F | -148.0 to 2372.0 °F | 0.1 °F | -58.0 to 2372.0 °F : ± (0.2 % + 1 °F) |
| | | | -58.1 to -148.0 °F : ± (0.2 % + 1.8 °F) |

| THERMOCOUPLE PROBE (type K), optional | | | |
|---------------------------------------|---|-------|---|
| TP-01 | -40 °C to 250 °C (300°C short- term). Ultra fast response naked-bead probe. | TP-03 | -50 °C to 1200 °C (-50 °F to 2200 °F). High temp., Penetration & immersion. |
| TP-02A | -50 °C to 900 °C (-50 °F to 1650 °F). Penetration & Immersion applications. | TP-04 | -50 °C to 400 °C (-50 °F to 752 °F). Precision surface temp. measurement usage. |

* Appearance and specifications listed in this brochure are subject to change without notice.

CAT-0403-HD3008