

+ Type K THERMOMETER

DEW POINT HUMIDITY METER

Model : HD-3008

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC



The Art of Measurement

Dew Point HUMIDITY METER

Model : HD-3008

+TYPE K THERMOMETER

* 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 °Cbe 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, °C.	Power Current	Approx. DC 7 mA.
	<i>Dew point :</i> °C, °C.	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)
Sensor	<i>Humidity (Dew Point) meter :</i> Humidity : High precision thin-film capacitance sensor.	Accessories	Humidity Sensor Probe: Round 26 mm Dia. x 160 mm.
	Temperature : Thermistor.		Instruction manual..... 1 PC. Humidity probe..... 1 PC. Carrying Case..... 1 PC.
	<i>Type K thermometer :</i> Thermocouple probe.		Optional Accessories
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 °C to 122 °C
	Resolution	0.1
	Accuracy	°C - ± 0.8 °C °C - ± 1.5 °C

Dew Point		
°C	Range	-25.3 °C to 48.9 °C
	Resolution	0.1 °C
°C	Range	-13.5 °C to 120.1 °C
	Resolution	0.1 °C.

Remark :

- * 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)
°C	-148.0 to 2372.0 °C	0.1 °C	-58.0 to 2372.0 °C : ± (0.2 % + 1 °C)
			-58.1 to -148.0 °C : ± (0.2 % + 1.8 °C)

THERMOCOUPLE PROBE (type K), optional

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

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

CAT-0403-HD3008



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