

*Humidity, Dew Point, Temperature, Fast Response
0.01 %RH, 0.01 degree*

HUMIDITY METER

Model : HT-315

ISO-9001, CE, IEC1010



Lutron

LUTRON ELECTRONIC

The Art of Measurement

Humidity + Temp. + Dew Point
Pocket size

HUMIDITY METER

Model : HT-315

1. FEATURES

- * Humidity + Temperature + Dew point are combined into one meter, intelligent and professional.
- * 0.01 %RH resolution for the humidity reading, 0.01 degree resolution for the Temp. reading.
- * Pocket size with Separate humidity & temp. probe, easy operation. & remote measurement.
- * Fast humidity measuring response time.
- * High accuracy and high precision.
- * Dew point measurement.
- * Manual and auto manual data logger.
- * Just few panel buttons, easy operation.
- * Microprocessor circuit assures maximum possible accuracy, provides special functions and features.
- * LCD with two display, easy readout.
- * Heavy duty & compact housing case, designed for easy carry out & operation.
- * Records Maximum and Minimum readings with Recall.
- * Auto shut off saves battery life.
- * Data hold function for freezing the desired value on display.
- * RS 232 PC serial interface.
- * Show the humidity & temperature values on the LCD display at same time.
- * Built-in low battery indicator.
- Wide humidity & temp. measuring range.
- * DC 9V power adapter input socket.

2. SPECIFICATIONS

2-1 General Specifications

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 44 mm x 29 mm dual function LCD display.
Measurement Unit	Humidity : %RH (Relative Humidity)
	Temperature : °C or °F.
	Dew point : °C or °F.
Response Time	5 to 30 seconds typically. <i>@ Reach the 85% reading value</i>
Temperature Compensation	Automatic temp. compensation for the humidity function.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
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.
Operating Humidity	Main instrument : Less than 85% R.H. Probe : 0 to 95 %RH.
Power Supply	006P DC 9V battery (Alkaline or Heavy duty type).

Power Current	Approx. DC 4.6 mA.
Weight	264 g/0.67 LB. <i>@ Battery is included.</i>
Dimension	Main instrument : 135 x 60 x 33 mm, (5.3 x 2.4 x 1.3 inch).
	Humidity Sensor Probe : 197 mm (7.8 inch) in length.
Accessories Included	Instruction manual.....1 PC Humidity probe.....1 PC
Optional Accessories	RS232 cable, UPCB-02 Data Acquisition software, SW-801-WIN Case wall holder Power adapter (ACV to DC 9V)

2-2 Electrical Specifications (23± 5 °C)

Humidity/ Temperature

Humidity	Range	0 % to 95 % R.H.
	Resolution	0.01 % R.H.
	Accuracy	≥ 70% RH ± (3% reading + 1% RH). < 70% RH - 3% RH. ± 3% RH.
Temperature	Range	0 °C to 50 °C, 32 °F to 122 °F.
	Resolution	0.01 degree
	Accuracy	°C - 0.8 °C. °F - 1.5 °F.

Dew Point

°C	Range	-25.3 °C to 48.9 °C
	Resolution	0.01 °C
°F	Range	-13.5 °F to 120.1 °F.
	Resolution	0.01 °F.

Remark :

- * Dew Point display value is calculated from the Humidity/Temp. measurement automatically.
- * The Dew Point accuracy is sum accuracy value of Humidity & Temperature measurement..