

HUMIDITY/BAROMETER TEMP. METER

Model : PHB-318

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

HUMIDITY / BAROMETER / TEMP. METER

Model : PHB-318

FEATURES

* Barometer, Humidity, Temperature meter, three in one, professional.
* Barometer unit : hPa, mmHg, inHg.
* Humidity with Dew point measurement
* Temperature measurement with °C, °F unit.
* Fast response time for humidity measurement.
* Atmosphere measurement with high accuracy.
* Two display can select the four mode (function) : Humidity/Temp., Humidity/Dew point, Barometer/Temp., Barometer/Humidity.
* Bright LCD display.
* Microprocessor circuit ensures high accuracy and provides special functions and features.
* Records Maximum and Minimum readings with recall.
* Auto power off saves battery life.
* Operates from DC 1.5V (UM4/AAA) x 4 PCs batteries.
* Durable, long-lasting components, enclosed in strong, compact ABS-plastic housing.

GENERAL SPECIFICATIONS

Display	LCD size : 28 mm x 19 mm.	
Temp. unit	°C, °F	
Barometer unit	hPa, mmHg, inHg.	
Humidity unit	%RH	
Dew point	°C, °F	
Circuit	Custom one-chip of microprocessor LSI circuit.	
Sensor Structure	Barometer	Semiconductor
	Humidity	Capacitance humidity sensor, semiconductor
	Temperature	Semiconductor
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time	Approx. 1 second.	
Power off	Auto shut off saves battery life or manual off (REC function).	
Operating Temperature	0 to 50 °C.	
Operating Humidity	Less than 80% R.H.	
Power Supply	DC 1.5 V battery (UM4/AAA) x 4 PCs,	
Power Current	Approx. DC 3.0 mA	

Weight	157 g/ 0.35 LB. @ Battery is included.
Dimension	210 x 40 x 40 mm (8.3" x 1.6" x 1.6")
Accessories Included	Instruction manual..... 1 PC
Optional Accessory	Soft carrying case with sash (210 x 80 x 50 mm), Model : CA-52A

ELECTRICAL SPECIFICATIONS (23±5 °C)

Humidity / Dew point

a. Humidity

Range	10 % to 95 % R.H.
Resolution	0.1 % R.H.
Accuracy	≥ 70% RH ± (3% reading + 1% RH). < 70% RH - 3% RH. ± 3% RH.

b. 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..

Barometer

Measurement	Range	Resolution	Accuracy @ reading
hPa	10.0 to 999.9	0.1	± 1.5 hPa
	1000 to 1100	1	± 2 hPa
mmHg	7.5 to 825.0	0.1	± 1.2 mmHg
inHg.	0.29 to 32.48	0.01	± 0.05 inHg

Temperature

Measuring Range	0 °C to 50 °C / 32 °F to 122 °F
Resolution	0.1 °C / 0.1 °F
Accuracy	± 0.8 °C / 1.5 °F