

*%RH, Wet bulb, Dew point, Temp., type K/J Temp*

# PRECISION HYGROMETER

Model : HT-3017

*ISO-9001, CE, IEC1010*



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

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## PRECISION HYGROMETER

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### FEATURES

* Precision hygrometer to measure the Humidity ( %RH ), Wet bulb Temp., Dew point Temp., Temperature value at the same time and show all the 4 kind reading value in the same LCD.
* Type K, Type J thermocouple thermometer.
* Fast humidity measuring response time.
* Separate probe, easy for operation of different measurement environment.
* LCD with backlight, easy reading.
* Can default auto power off or manual power off.
* Data hold, record max. and min. reading.
* Microcomputer circuit, high accuracy.
* Power by UM3/AA ( 1.5 V ) x 6 batteries or DC 9V adapter.
* RS232/USB PC COMPUTER interface.

### GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm LCD with green backlight ( ON/OFF ).
Measurement Unit	Humidity/Temp. : %RH/°C or °F. Dew point ( Humidity ) : °C or °F. Wet bulb ( Humidity ) : °C or °F. Type K/J thermometer : °C or °F.
Advanced setting	* Auto power OFF management * Set beep Sound ON/OFF * Set thermometer type to Type K or Type J * Set temperature unit to °C or °F
Temperature Compensation	Automatic temp. compensation for the humidity function and the type K/J thermometer.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of Display	Approx. 1 second.
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.
Operating Temperature	0 to 50 °C.
Operating Humidity	Less than 85% R.H. @ Meter only.
Power Supply	* Alkaline or heavy duty DC 1.5 V battery ( UM3, AA ) x 6 PCs, or equivalent. * DC 9V adapter input. ( AC/DC power adapter is optional ).
Power Current	Normal operation ( LCD Backlight is OFF ) : Approx. DC 3.5 mA. * If LCD backlight on, the power consumption will increase approx. 12 mA.
Weight	489 g/1.08 LB.
Dimension	177 x 68 x 45 mm (7.0 x 2.7x 1.9 inch)
Accessories Included	* Instruction manual.....1 PC * Humidity/Temp. probe.....1 PC * Soft carrying case.....1 PC

Optional Accessories	Type K thermocouple probe. AC to DC 9V adapter. USB power to DC 9V converter. USB cable, USB-01. RS232 cable, UPCB-02. Data acquisition software, SW-U801-WIN. Excel data acquisition software, SW-E802. Hard carrying case, CA-06.
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### ELECTRICAL SPECIFICATIONS (23±5 °C)

#### Humidity/ Temperature

Humidity	Range	5 % to 95 % R.H.	
	Resolution	0.01 % R.H.	
	Accuracy	± 2% R.H. @ 20 %RH to 80 %RH @ 10 °C to 40 °C	
Temperature	Range	0 °C to 50 °C, 32 °F to 122 °F.	
	Resolution	0.01 degree	
	Accuracy	°C	± 0.5 °C.
		°F	± 1.0 °F.

#### Dew Point ( Humidity )

°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..

#### Wet bulb ( Humidity )

°C	Range	-21.6 °C to 50.0 °C
	Resolution	0.01 °C
°F	Range	-6.9 °F to 122.0 °F.
	Resolution	0.01 °F.

#### Remark :

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

#### Type K/J thermometer

Sensor Type	Resolution	Range	Accuracy
Type K	0.1 °C	-50.0 to 1300.0 °C	± ( 0.2 % + 0.5 °C )
		-50.1 to -100.0 °C	± ( 0.2 % + 1 °C )
	0.1 °F	-58.0 to 2372.0 °F	± ( 0.2 % + 1 °F )
		-58.1 to -148.0 °F	± ( 0.2 % + 1.8 °F )
Type J	0.1 °C	-50.0 to 1200.0 °C	± ( 0.2 % + 0.5 °C )
		-50.1 to -100.0 °C	± ( 0.2 % + 1 °C )
	0.1 °F	-58.0 to 2192.0 °F	± ( 0.2 % + 1 °F )
		-58.1 to -148.0 °F	± ( 0.2 % + 1.8 °F )

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

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