

# HUMIDITY/TEMP. CONTROLLER/MONITOR

Model : PHT-3109

ISO-9001, CE, IEC1010



Humidity probe  
( included )



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

# HUMIDITY/TEMP. CONTROLLER/MONITOR

Model : PHT-3109

## FEATURES

* Professional Humidity measurement monitor and controller.
* Build in humidity control relay and the Temp. control relay.
* Relay will be make action ( On/Off ) when the reading value reach high limit or low limit value.
* Offset value setting.
* Hysteresis value setting for high and low alarm.
* °C, °F temp. unit setting with default.
* High precision humidity sensor with fast response time and high accuracy.
* Large red LED display, high brightness and easy to read.
* RS232 computer interface, send out the humidity and the temperature data at the same time.
* Optional data acquisition software.
* Optional GSM controller.
* Microprocessor circuit ensures high accuracy and provides special functions and features.
* Standard 96 X 48 mm DIN case.

## GENERAL SPECIFICATIONS

Display	4 digits red LED, digit size : 14 mm.	
Unit	Temp.	°C, °F
	Humidity	%RH
Circuit	Custom chip of microprocessor LSI circuit.	
Sensor	Humidity	Semiconductor
Structure	Temperature	Semiconductor
Sampling Time	Approx. 1 second.	
Relay outputs	Number	2 relays
	Function	Relay 1 : Humidity control relay. Relay 2 : Temperature control relay.
	Max load	1 ACA/250 ACV 1 DCA/24 DCV
Setting value	High limit value setting. Low limit value setting. Hysteresis value setting. Offset value setting. * <i>Setting for Humidity and Temp.</i>	

External Power Supply	DC 12 V, 50 mA max.
Data Output	RS 232 PC serial interface.
Operating Temperature	0 to 50 °C. * <i>Meter</i>
Operating Humidity	Less than 80% R.H. * <i>Meter</i>
Power Supply	90 to 260 ACV, 50/60 Hz.
Power Consumption	Approx. 4.7 VA/AC 110V. Approx. 5.3 VA/AC 220V.
Weight	384 g/ 0.84 LB. * <i>Including probe.</i>
Dimension	DIN size : 96 x 48 mm. Depth : 110 mm.
Accessories Included	Instruction manual..... 1 PC Humidity/Temp. probe..... 1 PC Case holder with screw..... 2 PCs Probe fix holder..... 1 PC
Optional Accessories	* Data Acquisition software, SW-U801-WIN. * RS232 cable, UPCB-02. * USB cable, USB-01. * GSM controller, GSM-889. * Interface cable ( cable between meter to GSM-889 ), GMCB-89.

## ELECTRICAL SPECIFICATIONS (23±5 °C)

### 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.

### 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

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

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