# HUMIDITY/TEMP. CONTROLLER/MONITOR

# Model : PHT-3109     *ISO-9001, CE, IEC1010*



## FEATURES

* Humidity : 10 to 95 %RH.

* Temperature  :  0 to 60 ℃.

* Resolution : 0.1 %RH, 0.1 degree.

* Control setting, Alarm setting.

* Control relay output, alarm relay output.

* Power : 90 ACV to 264 ACV, 50/60 Hz.

* RS-232 computer interface.

* DIN size : 96 x 48 mm. Depth : 107 mm.

* Accessory included : Humidity/Temp. probe.





## 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.
* ℃,℉ 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. | ℃ , ℉ |
| | Humidity | %RH |
| Circuit | Custom chip of microprocessor LSI circuit. | |
| Sensor Structure | Humidity | Semiconductor |
| | 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. *Setting for Humidity and Temp.* | |

| External Power Supply | DC 12 V, 50 mA max. |
|---|---|
| Data Output | RS 232 PC serial interface. |
| Operating Temperature | 0 to 50 ℃. *Meter* |
| Operating Humidity | Less than 80% R.H. *Meter* |
| 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.    *Including probe.* |
| 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. * GSM controller, GSM-889. * Interface cable ( cable between meter to GSM-889 ), GMCB-89. |

### ELECTRICAL SPECIFICATIONS (23±5 ℃)

**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 ℃ to 50 ℃/32 ℉ to 122 ℉ |
|---|---|
| Resolution | 0.1 ℃/0.1 ℉ |
| Accuracy | ± 0.8 ℃/1.5 ℉ |