TRH-307A-PM

Temperature and Humidity Controller



PANEL MOUNT



Features

- · Highly accurate Digital technology sensor gives fast and reliable output.
- Temperature range is -30°C to +80°C with accuracy of ± 0.5 °C.
- Relative Humidity range is 0% RH to 100%RH with accuracy of ± 2%RH.
- . Long term stable output for both Temperature and Relative Humidity.
- Digital Display of Temperature & Relative Humidity on Seven Segment Display
- 2 Nos. Alarm relay contacts with two configurable Alarm levels & one relay for fail safe relay.
- · Easy handling & programming with 3 keys
- Password protected programming with password changing facility.
- · Software calibration for both Temperature & Relative Humidity.
- · Flash Memory for Data security in the event of power failure.
- · Optional Standard 4-20mA signal outputs with configurable range.
- Optional Isolated RS-485 communication port with MODBUS RTU Protocol.
- · Compact size, can be easily installed.



- Clean Rooms Server Room Pharmaceutical Hospitals / Labs Walk-in-cooler
- · Greenhouse Breeding · Indoor Air Quality (IAQ)/Warehouse
- Air Condition Room/Cold Room
 Energy Management System (EMS)

TECHNICAL SPECIFICATIONS

General:

Sensor Type Sensor Cable Length Capacitive Polymer Sensor

Range

: 1 meter to 15 meter available on request For Temperature = -30°C to 80°C

For Relative Humidity = 0 % RH to 100% RH

Display 2-Line, 4-Digit 13mm (H) Seven Segment Display.

8 LEDs to indicate status of instrument.

i)Two independent Alarm set points with Latch Control Action

& Non-latch facility.

ii) User selectable Hysteresis

Setting By using 3 keys on front panel

Performance:

Accuracy: ± 0.5°C for Temperature

± 2% RH for Relative Humidity

Response Time Approx 5 Seconds

Electrical:

Supply Voltage 90 to 270VAC, 50 Hz Power Consumption Less than 20 Watts.

Environmental:

Operating Temperature : -20°C to +55°C **Storage Temperature** -30°C to +70°C

Less than 95% Non-Condensing. **Relative Humidity**

Error Monitoring:

- During Sensor Break / Open, the Display shows 'SENS OPEN' & output current will be as per Upscale / Downscale.
- During Over Range the Display Shows 'OVER RNGE' & Output current will be as per Upscale/Downscale
- Upscale current = 21mA Down scale current = 3.7mA

Output Signal:

Standard

: Three SPDT Relay (one for FailSafe & Two for Alarm indication)

of rating. 5A/250VAC, 5A/30VDC

Optional

a) Two 4-20mA Current Outputs with configurable range selection, one each for Temperature & Relative Humidity Respectively

b) RS-485 isolated Port with MODBUS RTU protocol.

Accessories (Optional) :

- · Canopy Mounting stand. · SCADA Software. · RS-232 to RS-485 convertor
- Hooter Cum Flasher.
 RS-485 to USB convertor

Panel Mount Housing:

Protection Class: IP-40

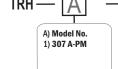
Cutout : 92 mm (W) x 92 mm (H)

Dimension : PM - 96 mm (W) x 96 mm (H) x 175 mm (D)

Enclosure : ABS Plastic, Black colour

Mounting : Panel Mounting Weight : Approx 600 grams

ORDERING INFORMATION





Length

1) 1 Meter

2) 2 Meter

3) 10 Meter

4) 15 Meter













- C) Retransmission Output
- 1) None 2) 4 to 20mA

3) RS-485 series

D) Com 1) None 2) RS-485 Serial

Port

- - E) Sensor
- Housing 1) Stainless
 - Steel (SS-316) 2) Nylon

* Before placing order; Refer the above ordering information or Contact below address for assistance.

Manufactured by:



























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Specifications subject to change without any prior notice