

### RELATIVE HUMIDITY + TEMPERATURE INDICATOR FOR CLEANROOMS

#### ⚙ Description :

The Clean Room Monitor is designed to measure the vital parameters of Temperature, Humidity & Differential Pressure in CleanRoom Applications.

The Model RHTF is designed for minimum cabling & easy flush mounting in Modular Wall or Brick Walls of Clean Rooms. The sensors for all parameters are integrated inside for ease of use& installation.



The Model RHTF is optionally available for Remote Sensors for humidity & temperature. Both parameters are displayed on the instrument using external or Internal transmitters For Combined Humidity & Temperature.

Standout features in the Clean Room Monitor include integrated buzzer for parameter violation indication, individual LED for process violation, buzzer enable/disable feature & buzzer delay option and any other customized solution.

The instruments find immense use in Pharma Clean Rooms, APIs, Bulk Drugs, Electronic Hardware Manufacturing Plants, Test Plants, Green Houses, etc. Easy integration to Building Management Systems (BMS ) & SCADA interfacing allow easy set up & great control.

#### ⚙ Technical Specification :

|                    |   |                                                                                                                                                                                  |
|--------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensor Type        | : | Polymer sensing for Temperature<br>Capacity polymer sensing for Relative humidity                                                                                                |
| Range              | : | 0.0 to +60.0°C typical for Temperature (Any other as per requirement)<br>0.0 to 100.0%RH typical for Relative humidity                                                           |
| Output (Optional ) | : | 2x 4-20mA for both temperature & humidity<br>Optional RS 485 Modbus Protocol Communication                                                                                       |
| Resolution         | : | Fixed 0.1 for both Temperature & Relative humidity                                                                                                                               |
| Accuracy           | : | 1) $\pm 0.5^{\circ}$ C for $-30.0^{\circ}$ to $+50.0^{\circ}$ Deg. C for Temperature<br>2) $\pm 1.8\%$ for 10 to 95% RH for Relative humidity<br>$\pm 2\%$ for all other ranges. |
| Display            | : | 2 X 4 Digit RED LED Display of Height 0.5" or 1"<br>(1 Each for Humidity & Temperature)<br>Separate LED for AHU Run Status available on request                                  |

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### Technical Specification :

|                  |   |                                                                                                                              |
|------------------|---|------------------------------------------------------------------------------------------------------------------------------|
| Supply Voltage   | : | 24VDC / 230VAC                                                                                                               |
| Mounting         | : | Clean Room Modular Wall Flush Mounting with External Humi-Temp Probe with 2 mtrs. Extension Cable ( Extendable upto 5 mtrs.) |
|                  |   | Or                                                                                                                           |
|                  |   | Clean Room Modular Wall Flush Mounting with Built- In Humi-Temp Probe on Front Flush Plate                                   |
| Sensor Housing   | : | Nylon material (Length 85mm.) with 4 Core Shielded Extension Cable.                                                          |
| Cable Connection | : | Terminal Connectors for Sensor Input & Power Supply Input Suitable for cable upto 1.5 sq.mm.                                 |
|                  |   | Or                                                                                                                           |
|                  |   | Terminal Connectors for Power supply & RS 485 Communication only                                                             |
| Depth            | : | 35 mm( M.S. Powder Coated Body Enclosure)<br>160(W) x 170 (H) for Front Flush Stainless Steel Modular Plate                  |
| Cabinet          | : | Stainless Steel Front Flush Plate for Clean Rooms, M.S. Powder Coated Body Enclosure for Modular Wall Fitment                |
| Weight           | : | 500g. Approx.                                                                                                                |

## HOW TO ORDER

|                |                  |     |                |  |      |
|----------------|------------------|-----|----------------|--|------|
| Basic Model :  |                  |     |                |  | RHTF |
| Output :       |                  |     |                |  | A    |
| -              | No Output        | A   | 4-20mA         |  |      |
| M              | MODBUS RS485     |     |                |  |      |
| Display Size : |                  |     |                |  | 5    |
| 5              | 0.5" LED Display | 1   | 1" LED Display |  |      |
| Power Supply : |                  |     |                |  | 24   |
| 24             | 24VDC            | 230 | 230VAC         |  |      |

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## HOW TO ORDER

⚙️
Sensor :
R

I Internal Sensor
R Remote Sensor
⚙️

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⚙️
Cable Length (Only For Remote Sensor):
10

5 5 meters
10 10 meters
20 20 meters
⚙️

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⚙️
Real Time Clock :
RTC

- No RTC
RTC Synchronized RTC
⚙️

Ordering Example: RHTF-A5-24-R10-RTC



Omicron Sensing LLC

10467, Whiterose Lane,  
San Diego, CA - 92127

United States of America

Tel: (858) 939-9266

web: [www.omicron-sensing.com](http://www.omicron-sensing.com)

Email : [sales@omicron-sensing.com](mailto:sales@omicron-sensing.com)