

Clean Room Monitor and Real Time Data logger for Temperature / Humidity / Diff. Pressure (Model: THP-300X)



Features:

- ❖ Microcontroller based design.
- ❖ Elegant appearance, easy to operate and compact in size.
- ❖ Highly accurate and sturdy in operation.
- ❖ Three colour 1" display for simultaneous indication of T, Rh and DP.
- ❖ Ready for both analog and digital data transmission.
- ❖ Built in memory and RTC for real time data storage.
- ❖ Stainless Steel (SS) enclosure.

Model Wise Description:

| Model | Product Description |
|--------------|---|
| THP-3001-SSC | (Only DP or T or RH) Indicator Transmitter – 1" display with built in real time data storage |
| THP-3002-SSC | (T + RH) or (T + DP) or (RH + DP) Indicator Transmitter – 1" display with built in real time data storage |
| THP-3003-SSC | (T + RH + DP) Indicator Transmitter – 1" display with built in real time data storage |

Technical Specifications:

| | |
|---------------------------------|---|
| Sensors | External / Internal Capacitive / Pt-100 based T + Rh sensor and built in DP sensor. |
| Temperature Range | -40.0 to 60.0°C / -40.0 to 140.0°F |
| Temperature Accuracy | +/- 0.3 °C/°F |
| %RH Range | 0.0 to 100.0 %RH |
| RH Accuracy | +/-1.0 %RH @ 25.0 °C |
| Diff. Pressure Range | +/-100 mmWC or +/-999 Pascal (UOM can be selected) DP connection using 6 mm self- lockable PU tube connector at the back. |
| DP Accuracy | +/- 1% of the calibrated range. |
| Display | 4 digits LED display each for T, %RH and DP – 1" red /green/blue |
| Power Requirement | 24VDC @ 300mA (+/-10%) or 230VAC (Any one – user to specify) |
| Output 1 for Temperature | 4-20mA proportional to -40.0 to 60.0 °C |
| Output 2 for % RH | 4-20mA proportional to 0.0 to 100.0 %RH |
| Output 3 for DP | 4-20mA proportional to +/-100mmWC or +/-999 Pascal. |
| High and Low Alarms | High and Low alarm set points for each parameter are user programmable. In case of deviation from the set value, the front panel LED lights and Beeper sounds (with snooze facility). |
| Serial Output (optional) | Isolated 2 wire RS485 MODBUS RTU - with programmable SLAVE ID |
| Ethernet Port (optional) | Ethernet port on RJ-45 jack with TCP/IP protocol. |
| Built in Memory and RTC | Real time Data storage capacity of 20,000 records in 256KB of flash memory with built in RTC. |
| Key board | Membrane key board is provided for programming real time, alarm values, MODBUS address and for calibration. |
| Enclosure (Size) | (250w x 200h x 50d) mm. - Depth of max. 30mm. from Wall surface. |
| Mounting | Concealed flush mounting on the PUF panel or in the wall. |

Physical Dimensions:

