# DEW POINT, HUMIDITY & TEMPERATURE MONITOR

**Bliss**



CE

## Application

- To measure the real time dew point, humidity and temperature in compressed air
- Dew point sensor down to -60 degree Celsius
- sensor can be installed in a pressurized system up to 80 bar (1 160 psi)

- Ideal to measure the dew point on each department, block or unit
- Device is mainly designed to monitor, measure and record data for analysis

## Features

- Wide range of 7"/10"/15" inch HMI Touch Screen HD Display with Password protected interface.
- RISC-V based process technology
- LCD touch screen to set low and high threshold values for dew point, humidity and temperature
- Offline data can be stored in a SD card for reporting and analysis
- Wi-Fi & MODBUS connectivity
- Alert will be generated, whenever the flow exceeded the minimum/maximum values

- Alert can be sent via Telegram application
- Daily monitoring report can be sent through email option
- Monolithic measuring cell type HMC200, manufactured in thin-film technology. Due to the excellent long-term stability and durability against condensation
- Integrated auto-calibration procedure enables a measurement accuracy of f <2 °C Td (<3.6 °F Td)
- Building management Software (BMS) compatible

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## DIMENSION



Dimension: 304 x 250 x 110 mm (Length x Height x Width)

## TECHNICAL SPECIFICATION

**Design and Display**
- Dimensions: 204 x 149 x 84 mm
- Weight: 5000 grams
- Materials: Mild Steel(MS)
- Colors: Ivory

**Display**
- Type: Thin film transistor (TFT), Circular
- Size: 7"/10"/15" inches (diagonal)
- Resolution: 1024 x 768 pixels, 304.13 (H) x 228.10 (V) mm
- Brightness: Up to 300 nits (typical)
- Touch: Resistive type
- Proportion:16:9

**Performance**
- Chip: RISC V
- CPU: 2- core (1 performance, 1 efficiency)

**Storage Options**
32 GB SD Card - Available for 7"/10"/15" Inch Display

**Operating System**
        RTOS

**Connectivity**
- Option: Wired without IOT, Wired with IOT-4.0
- Point to Point Wireless with IOT-4.0, Point to Point Wireless without IOT
- Range – 100 meters

**Additional Features**
- Audio Alert: Voice Alert, Beeper
- External Alert: Hooter AC 240V
- IOT Alert: Telegram, E-Mail

**Sensor Specifications**
- Monolithic measuring cell type HMC200, manufactured in thin-film technology. Due to the excellent long-term stability and durability against condensation
- Integrated auto-calibration procedure enables a measurement accuracy of f <2 °C Td (<3.6 °F Td)

**Timekeeper**
 Inbuilt Real Time Clock (RTC)

**Accuracy**
Accuracy of f <2 °C Td (<3.6 °F Td)

**Environmental Specifications**
- Operating Temperature: 32°F to 122°F (0°C to 50°C)
- Humidity: 090% RH (noncondensing)
- IP Rating: IP65 (dust tight)

**Alarm Specifications**
 Alarm Type: Visual, Audible

 **Alarm Levels**
- Low Alarm: 20% of full scale
- High Alarm: 90% of full scale
- Alarm Relay: Normally Open (NO), Normally Closed (NC)

**Power and Communication**
- Power Supply: 120/240V AC
- Power Consumption: 15W
- Communication: RS485, Modbus