

PHARMA CLEAN ROOM MONITOR

The **ACE INSTRUMENTS** make **Pharma Clean Room Monitor** is designed to measure the vital parameters of Temperature, Humidity and Differential pressure in pharma clean room applications. The clean Room Monitor Model AI-CRM1-1 is designed for minimum cabling and easy flush mounting in modular wall panels or brick walls of Clean Room.

The sensors for all 3 parameters are integrated inside for ease of use & installation. The combination humidity & temperature sensor is flushed to the front stainless steel plate & the differential pressure is built-in with hose nipple connections at the rear for +ve & -ve pressure connections.

Additional features in the Pharma Clean Room Monitors include stand out features like integrated buzzer for parameter violation alert, individual LED for process violation visual alert & RS 485 Modbus Communication for easy integration to BMS/SCADA/EMS. The instruments find immense use in Pharma Clean Rooms, AHUs, biotechnology, HVAC, Blood banks, etc.



SPECIFICATIONS

Manufacturer	: ACE Instruments
Model	: AI-CRM1-1
Sensor Type	: 1) Polymer sensing for Temperature 2) Capacitive polymer sensing for Relative humidity 3) Piezo Resistive Sensor for Differential Pressure
Range	: 1) -30.0 to +50.0 Deg. C typical for Temperature 2) 0.0 to 100.0 %RH typical for Relative humidity 3) 0.0 to +25.0 mm. W.C./ 0 to 250 Pascals (Any other customized range as per user specifications)

SPECIFICATIONS

Resolution	: Fixed 0.1 for both Temperature & Relative humidity, 0.1 mm.W.C. or 1 Pascal for Differential Pressure
Accuracy	: 1) ± 0.5 Deg.C for -30 to 50 Deg.C for Temperature 2) $\pm 1.8\%$ for 10 to 95% RH for Relative humidity 3) $\pm 0.5\%$ F.S. for Differential Pressure
Display	: 3 Line Red 7 Segment LED Display of height 1" 3 Digits for Differential Pressure on Line 1 3 Digits for % R.H. (Humidity) on Line 2 3 Digits for Temperature (Deg. C) on Line 3
Differential Pressure Entry	: 2 Nos. 4 mm. Hose Nipples at top
setting	: By 4 keys on the front stainless steel panel
Buzzer	: Integrated buzzer for Alarm in case of process violation of any of the 3 parameters
Supply Voltage	: 24VDC, 250mA
Mounting	: Wall mounting/Modular Wall mounting with Stainless Steel Front Flush Plate for Clean Rooms
Sensors	: Integrated Humidity & Temperature Sensor flushed to front plate Built in differential pressure sensor with Brass Hose Nipples (Chrome Plated) for Differential Pressure At Rear (4mm x 2 Nos.) Optional External Humidity & Temperature Sensor
Communication	: RS 485 Modbus Protocol (Optional)
Dimension	: Enclosure: 115(W) X 150(H) X 40(D) mm Stainless Steel Front Plate : 145(W) x 160 (H) mm
Enclosure	: M.S. Powder Coated Body with Stainless Steel Front Flush Plate for Modular Wall Mounting /Optional Brick Wall Mounting
Weight	: 700 gms. Approx
Calibration Certificate	: Will provided at no extra cost.Valid for 1 year
Warranty	: 12 Months Manufacturer warranty

Store Contact:

Instrukart Holdings

India Toll Free: 1800-121-0506 | Ph: +91(40)40262020 | Mob: +91 7331110506

Email : info@instrukart.com | Web: www.instrukart.com

#18, Street 1A, Czech Colony, Sanath Nagar, Hyderabad-500018, INDIA.



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