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) 0.0 to 50.0 Deg. C typical for Temperature 2) 0.0 to 100.0 %RH typical for Relative humidity 3) 0.0 to 10.0 mm. W.C./ 0 to 100 Pascals (Any other customized range as per user 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 0 to 50.0 Deg.C for Temperature 2) ± 1.8% for 10 to 95% RH for Relative humidity 3) ± 0.5% F.S. for Differential Pressure
Display	:	3 Line Red 7 Segment LED Display of height 8" 3 Digits for Differential Pressure on Line 1 3 Digits for Temperature (Deg. C) on Line 2 3 Digits for % R.H. (Humidity) 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
Dimensions	:	Stainless Steel Front Plate : 180 (w) x 200 (H) mm Back Box :140 (W) x 150 (H) x 35 (D) mm,
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)
Enclosure	:	M.S. Powder Coated Body with Stainless Steel Front Flush Plate for Modular Wall Mounting /Optional Brick Wall Mounting
Warranty	:	12 Months Manufacturer warranty