The Clean Room Monitor
Humidity Temperature Diff.Pressure

The **Clean Room Monitor** is designed to Measure the vital parameters of Temperature, Humidity & Differential Pressure in Clean Room Applications. The Display is a new Generation GRAPHIC LCD with Blue Back light for great visibility.

The **Model AI-CRM1-LCD** is designed for minimum cabling & easy flush mounting in Modular Wall or Brick Walls of Clean Rooms. The sensors for all 3 parameters are integrated inside for ease of use & installation. Also available with option of External Combined Humidity & Temperature Sensor with up-to 10 Mtrs. Cable.

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

The instruments find immense use in Pharma Clean Rooms, Hospital Operation Theatre Rooms, Isolation Roooms, 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.

Resolution	:	Fixed 0.1 for both Temperature & Relative humidity, 0.1 mm.W.C. or 1 Pascal for Differential Pressure
Accuracy	:	1) $\pm0.5^0C$ for -30 to 50^0C for Temperature 2) $\pm1.8\%$ for 10 to 95% RH for Relative humidity 3) $\pm0.5\%$ F.S. for Differential Pressure
Display	:	Graphic LCD Display 128 x 64 Blue Backlit
Differential Pressure Entry	:	2 Nos. 4 mm. Hose Nipples at rear box
Setting	:	By 4 keys inside 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 / Optional Any Other Required Voltage
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 × 2 Nos.)Optional External Humidity & Temperature Sensor (MODELAI-CRM 2-LCD)
Communication	:	RS 485 Modbus Protocol Communication (Optional)
Analog Outputs	:	3×4-20MA Outputs (1 each for Temperdive, Humidity & Diff. Pressure)
Dimension	:	MS Powder Coated Back Box : 175(H)×140(W)×35(D) mm. Stainless Steel Front Plate : 205 (H) × 180 (W)mm.
Enclosure	:	M.S. Powder Coated Body with Stainless Steel Front Plate for Modular Wall Mounting / Optional Brick Wall Mounting