ISOLATION ROOM PRESSURE MONITOR

The Isolation Room Pressure Monitor is designed to measure & display the vitalparameter of room differential pressure with respect to the corridor in hospital isolation rooms, operation theatre rooms , laboratories & clean room area applications.
The Isolation Room Pressure Monitor Model AI-DP1-LCD is designed for minimum cabling & easy flush mounting in Modular wall or brick walls of hospital rooms/ clean rooms with a clear Blue Backlit Graphic LCD display.

Especially suited for both negative & positive pressure monitoring in critical area rooms to avoid infection & viral transmission to keep the patients & hospital staff safe & free from disease spread confirming to health & safety compliance norms.

Standout features in the isolation room pressure monitor include integrated buzzer for parameter violation alert with acknowledgement key , buzzer enable/disable feature & buzzer delay options.
The instrument has an optional 4-20mA Retransmission output for connection onto PLC/SCADA & also an RS 485 Modbus communication port for connection to BMS Systems. Also available in the Ace Instruments range are instruments designed for simultaneous display of temperature, humidity & differential pressure alongwith Air Change Per Hour (ACH) displays in a single instrument.

MODEL: AI-DP1-LCD

TECHNICAL SPECIFICATIONS

Pressure Measuring Range	-0.50 to + 0.50 In. W.C. , -0.20 to +0.20 In.W.C. -100 to +100 Pascals, -50 to +50 Pascals, -25 to + 25 Pascals -10.0 to + 10.0 mm.w/c., -25.0 to +25.0 mm.w/c., (Any other range factory set as per customer specifications)
Maximum Over Pressure	4 Times the rated pressure
Unit Selection	Selectable from tactile key inside between In.W.C. , Pascals & mm.W.C.
Display	Graphic Blue Backlit 128 x 64 LCD
Sensor	Integrated High Speed Differential Pressure Sensor
Power	24 Volts D.C. Typical , provided with internation adaptors to work across all countries
Output (optional)	4-20 mA Isolated
Medium	Air or Gases (Non Corrosive)
Accuracy	+/-0.5% of Full Scale
Alarms	Built In High & Low Limit Violation Alert Buzzer Alarm with Acknowledgement Key
Size	Back Box:145 (H) X 110 (W) X 30 (D) mm. Front Plate: 200 (H) X 180 (W) mm.
Connection	2 Nos. Hose Nipples of 4mm. Stainless Steel at the Back
Communication (Optional)	Isolated RS485 Modbus Protocol
Construction	MS Powder coated back box with stainless steel front flush plate for Modular wall / brick wall mounting

Clean Rooms | Pharma | Hospital | HVAC | BulkDrugs | Chemicals | Heavy Machinery
Hydraulics & Vacuum Industry | Green House | Server Room | Confined Space | Cold Storage

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