

THE CLEAN ROOM DIFFERENTIAL PRESSURE SCANNER



AI-DP1-1A

The **Clean Room Differential Pressure Scanner** is designed to measure the Differential Pressure in Clean Room Applications with 1 Line LED Display.

The Model **AI-DP1-1A** is designed for minimum cabling & easy flush mounting in Modular Wall or Brick Walls of Clean Rooms. The sensor for the parameter can be any sensor with industry standard 0-10 V.D.C. or 4-20mA Output.

The input in the Smart Process Scanner is user selectable between 4-20mA or 0-10 V.D.C. analog with range programmability for the parameter. Sensors from Siemens, Honeywell, Trane, Sauter , etc. can be directly connected to the instrument with minimum effort.

Additional features include integrated buzzer for parameter violation indication with acknowledgment key, individual LED for process violation and Isolated RS 485 Modbus Communication. The instruments find immense use in Pharma Clean Rooms, 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.

Also, available are ready to implement SCADA Monitoring Systems with Screens customized to meet your requirements & plant layouts. So, you can connect multiple instruments from our range of clean room instruments & monitor at a single or multiple (Thin Client) locations.

The input range is front key programmable for the parameter & input type is selectable from the front end sensor, range is either standard or customized as per customer specifications. The Smart Process Scanner has additional features like buzzer delay time & password protected Offset provision to enable user to negate any sensor errors . The input ranges are also password protected thus providing protection from unauthorized tampering of the instruments.

Specifications

Sensor Type	Selectable Input Between 4-20mA or 0-10 V.D.C. Jumper field
Range	Programmable between -199 to 999 with selectable decimal
Accuracy	+/-0.1 % F.S.D. +/-1 count
Display	3 Digit 0.8" high 7 Segment LED Display x 1 Line
Operating Conditions	Temperature Range : 5 to 50°C Humidity Range : 0 to 90%RH
Setting	By 4 keys inside front stainless steel panel plate
Buzzer	Integrated buzzer for Alarm in case of process violation of differential pressure with Acknowledgment Key
Supply Voltage	24VDC, 500mA
Mounting	Brick Wall mounting / Modular Wall mounting with Stainless Steel Front Flush Plate for Clean Rooms
Communication	RS 485 Modbus RTU Protocol Communication (Optional)
Enclosure	M.S. Powder Coated Body with stainless steel front flush plate for modular wallmounting/ optional brick wall mounting
Weight	450 gms. Approx.



ACE INSTRUMENTS

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