

Cleanroom Multi Channel Displayer

⚙ Description:

The Clean Room Multi Channel Displayer is designed to measure and display the Analog Inputs from front end sensors in Clean Room Areas. Especially suited to accept Analog Inputs from transmitters/sensors for temperature, humidity, differential pressure, air velocity, oxygen level, particle counters, etc. in a single instrument in Clean Room Applications.



The Model MCD3 is designed for minimum cabling & easy flush mounting in Modular Wall or Brick Walls of Clean Rooms. The sensors for all 3 parameters can be any sensors with industry standard 0-10 V.D.C. or 4-20mA Output . The inputs in the Smart Process Scanner are user programmable between 4-20mA or 0-10 V.D.C. Analog with range programmability for each of the 3 parameters.

Additional features include integrated buzzer for parameter violation indication with acknowledgment key, individual LED for process violation and Isolated RS 485 Modbus Communication. Models are available with 0.5" high Display or with Large 1" High Display.

The instruments find immense use in Pharma Clean Rooms, APIs, Bulk Drugs, Electronic Hardware Manufacturing Plants, Test Plants, Green Houses, etc. The RS 485 Modbus Communication provides easy integration to Building Management Systems (BMS) & SCADA interfacing allow easy set up & great control.

The Input Ranges are freely programmable for each of the 3 Analog Inputs, thus enabling a host of industry standard transmitters to be connected to the Smart Process Scanner. The user can choose from a range of differential pressure, temperature & humidity transmitters, oxygen level transmitters, particle counters, air velocity, etc. available in the global markets & ensure that each parameter is displayed on the Clean Room Multi Channel Displayer , installed in the Clean Room Corridors or Rooms for better visibility during day & night. The 1" High Display provides additional range of visibility thus enhancing the convenience of long distance viewing with ease.

The Clean Room Multi Channel Displayer has additional features like buzzer delay time & password protected Offset provision to enable user to meet audit requirements . The input ranges are also password protected thus providing protection from unauthorized tampering of the instruments.

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⚙️ Technical Specifications:

Sensor Type	:	Selectable Input for Each of the 3 Channels. Software field selectable input between 4-20mA or 0-10 V.D.C.
Range	:	Programmable between -999 to +9999 with selectable decimal
Accuracy	:	+/-0.1 % F.S.D. +/-1 count
Display	:	3 Line Red 7 Segment 0.4" High LED Display. 4 Digits for Each Parameter or 3 Line Red 7 Segment 1" High LED Display. 4 Digits for Each Parameter
Setting	:	By 4 keys inside front stainless steel panel plate/On Top
Buzzer	:	Integrated buzzer for Alarm in case of process violation of any of the 3 parameters with Acknowledgment Key
Supply Voltage	:	24VDC / 230VAC
Mounting	:	Brick Wall mounting / Modular Wall mounting with Stainless Steel Front Flush Plate for Clean Rooms
Communication	:	RS 485 Modbus RTU Protocol Communication
Dimension Enclosure	:	140(W) X 75(H) X 45(D) mm. Stainless Steel Front Plate : 220W x 90 (H) mm.
Enclosure	:	M.S. Powder Coated Body with Stainless Steel Front Flush Plate for Modular Wall Mounting /Optional Brick Wall Mounting
Weight	:	300 gms. Approx.



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HOW TO ORDER

⚙ Basic Model : MCD3

⚙ Display Size : 5

5	0.5"
1	01.0"

⚙ Power Supply : 24

24	24VDC
230	230V Supply

Ordering Example:
MCD3 - 5 - 24