

CLEAN ROOM SCANNER



MODEL AI-CRS3-1C

The CLEAN ROOM SCANNER is micro controller based indicator for indicating clean room differential pressure, temperature & humidity with synchronized high accuracy clock. This instrument has been designed mainly to monitor any 3 process parameters using external analog inputs from third party transmitters including temperature, %R.H., and Diff. pressure as standard & optionally any other analog input from front end transmitters for indoor air quality, CO, CO₂ & air velocity, etc.

- Programmable for INPUT 1 (Differential Pressure) from -199 to +999.
- Programmable for INPUT 2 (Relative Humidity) from - 199 to +999.
- Programmable for INPUT 3 (Temperature) from - 199 to +999.
- High Accuracy Clock (Hours : Minutes) with option of Synchronization

The instrument has a programming keypad inside & has a multi-level password protected menu to comply fully with USFDA 21 CFR Part 11 .

The instrument has all the standard features of range programmability for all 3 Analog Input Channels, Alarms (Hi & Lo) for each of the 3 channels with Built-in Buzzer & Acknowledgement Key on Front Stainless Steel Flush Panel. Additional features include provision for Synchronization for the Real Time Clock (RTC) & RS485 Modbus Communication for integration to SCADA/BMS/PLC.

APPLICATIONS :-

- Pharma Clean Rooms
- APIs
- Bulk Drugs
- Electronic Hardware Manufacturing Plants
- Semiconductor Manufacturing
- Hospitals & Operation Theaters
- Green Houses, etc.
- Building management system, etc.

SPECIFICATIONS:-

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|-----------------------|---|
| Input Type | 3 analog Inputs 4-20mA / 0-10 V.D.C. Analog Input selection using programming keypad inside the front facia plate + Standalone Real Time Clock (RTC) |
| Range | Programmable for each of the 3 inputs between -199 to 999 |
| Display | 4 Line 0.8" 7 Segment LED Display 3 Digits 7 Segment LED Display for Differential Pressure (Pascals) on Line 1. 3 Digits 7 Segment LED Display for temperature (Deg C) on Line 2. 3 Digits 7 Segment LED Display for Humidity (%R.H.) on Line 3. 4 Digit 7 Segment LED Display for clock (HH:MM) on Line 4. |
| Resolution | Programmable between 1, 0.1, 0.01, (Refer Standard Ranges & select suitable resolution) |
| Accuracy | +/-0.1% F.S. +/-1 count for each channel +/- 1 Second for Real Time Clock in Synchronization with Ace Time Sync Software +/- 2 minutes per year for Standalone (No Synchronization) Mode |
| Setting | By 4 Programming keys inside the front Stainless Steel Facia Acknowledgement Key for Buzzer on Front Facia Plate |
| Buzzer | Integrated Common Buzzer Alarm for Process Violation Alert with Acknowledgement |
| LED Indication | Individual LED for high & low Alarm Status Alert |
| Mounting | Wall mounting / Modular Wall mounting with Stainless Steel Front Flush Plate for Clean Rooms (Choice of Mirror Finish/Matte Finish) |
| Communication | RS485 Modbus Communication for Integration to PLC/SCADA/BMS/EMS |
| Dimensions | M.S. Powder Coated Back Box : 200 (H) x 125 (W) x 35 (D) mm. Stainless Steel Front Flush Plate : 250 (H) x 180 (W) mm. |

ACE INSTRUMENTS

(An ISO 9001-2008 Certified Company)

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