CLEANROOM MONITOR

CR3C Series

The CR3C Series Cleanroom Monitor was developed specifically to allow for monitoring of confined spaces with accuracy and reliability It features a flush fitting stainless-steel front plate that enables the user to wipe down the unit when necessary. The CR3C has no integrated sensors and has analog inputs to connect external sensors.

PRODUCT HIGHLIGHTS

• Analog inputs (4-20mA or 0-5/0-10Vdc) for temperature, relative humidity and differential pressure sensors.

• Analog outputs, 4-20mA, 0-5 or 0-10Vdc selectable

• Modbus RTU or BACnet network version

• Bright easy to read display

• Display for Temperature, relative humidity and pressure

• Pluggable screw terminals for easy installation

SPECIFICATIONS

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| DESCRIPTION | ENGINEERING SPEC |
| ANALOG INPUTS | 4-20mA or 0-5/0-10Vdc inputs. One each for temperature, relative humidity and Differential pressure |
| INDICATION | **Temperature Display:** 3 digit LED as 0.0-50.0°C or 32.0-122°F (°C/°F by LED)  **Relative Humidity Display:** 3 digit LED as 0.0-99.9 %RH  **Differential Pressure Display:** 3 1/2 digit LED display as -500-500 Pa or -50.0-50.0 mmWC  (Pa / mmWC is indicated by an LED)  **Digit Type:** 7 segment red LED, 0.80” (20.32 mm) high  **Alarm Indication:** Low / High alarm red LED for each parameter (T + RH + DP) |
| USER INPUT | **Programming:** Menu / Up / Down front panel tactile keys  **Alarm Silence:** Silence front panel tactile key |
| ANALOG OUTPUTS | **Signal Type:** 4-20 mA (sourcing) and 0-5 Vdc / 0-10 Vdc selectable  **Number of Outputs:** 3 (Temp, RH, DP)  **Output Drive:** *Current -* 500Ω max, *Voltage -* 10 KΩ min  **Output Scales:** 0 to 50°C, 0 to 100 %RH, ±500 Pa |
| ALARM OUTPUTS | **Number of Outputs:** 3 (Temp, RH, DP), can assign condition as low/high/both  **Output Type:** NO optically isolated solid state FET switch  **Contact Rating:** 100 mA at 28 Vac / 40 Vdc maximum  **Trip Point:** Upper and Lower alarms adjustable  **Alarm Delay:** 0 to 255 seconds (programmable)  **Operation:** Self-resetting, non-latching  **Alarm Buzzer:** Internal, operates on any alarm condition  **Buzzer Delay:** 0-255 seconds (programmable)  **Operations:** Self-resetting, can be silenced via silence button or disabled remotely via  BACnet® or Modbus |
| COMMUNICATION | **Hardware:** Isolated 2-wire RS-485 MS/TP  **Software:** Modbus RTU or BACnet®  **Baud Rate:** 9600, 19200, 38400, 57600, 76800 or 115200  **Address Range:** *Modbus -* 1-255, *BACnet® -* 0-127 |
| OPERATING CONDITIONS | 0 to 50°C (32 to 122°F), 0-90 %RH non-condensing |
| STORAGE TEMPERATURE | -20 to 60°C (-4 to 140°F) |
| POWER SUPPLY | 24-30 Vdc / 20-26 Vac |
| POWER CONSUMPTION | 200 mA max |
| WIRING CONNECTIONS | Pluggable screw terminal block (14 to 22 AWG) |
| PRESSURE CONNECTIONS | Port for 1/8” ID tubing |
| PROTECTION | IP65 front plate |
| ENCLOSURE | Wall mount enclosure, SS304, suitable for wipe-down  255mm W x 182.5mm H x 36mm D (8.86” x 7.19” x 1.46”) |
| REMOTE SENSOR PLATE | 70mm W x 115mm H x 45mm D (2.76” x 4.53” x 1.77”) |
| WEIGHT | 1.3 kg |
| CERTIFICATION | CE, RoHS |
| COUNTRY OF ORIGIN | Canada |