

CLEANROOM MONITOR CR3B Series

The CR3B Series Cleanroom Monitor was developed specifically to allow for monitoring of confined spaces with accuracy and reliability. The CR3B allows for either in-room or remote monitoring with three different models; integrated sensors, remote sensors or display only to suit a variety of installation needs. It features a flush fitting stainless-steel front plate that enables the user to wipe-down the unit when necessary.

22.5: 32.5: 30.7:

SPECIFICATIONS:

Temperature Input

Sensor Type10K Ω NTC thermistor sensor Temperature Range .. 0-50 °C, 32-122 °F

Accuracy..... \pm 0.2 °C (\pm 0.4 °F) curve matched

Relative Humidity Input

Differential Pressure Input

.....74.7 kPa (7470 mmWC)

Media Compatibility...Dry air or inert gas

Burst Pressure....

User Input

Programming......Menu / Up / Down front panel tactile keys Alarm SilenceSilence front panel tactile key

Analog Outputs

Alarm Outputs

Number of Outputs ... 3 (Temp, RH, DP),

can assign condition as low/high/both ... NO optically isolated solid state FET switch ... 100 mA at 28 Vac / 40 Vdc maximum Output Type. Contact Rating .. Upper and Lower alarms adjustable Trip Point 0 to 255 seconds (programmable) Alarm Delay Self-resetting, non-latching Operation. Internal, operates on any alarm condition Alarm Buzzer. 0-255 seconds (programmable) Buzzer Delay... Self-resetting, can be silenced via silence Operation 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	1-255 for Modbus, 0-127 for BACnet®

PART NUMBER SELECTED

CLEANROOM ORDERING INFORMATION

MODE	Description			
CR3	R3 S/S Clean Room Sensor - Temperature, Humidity & Low Pressure			
	CODE LCD Display			

CO	DE	LCD Display				
E	3	Remote	mote S/S Plate Mounted Sensors			
	CODE		Pressure Range			
		01 ±250 Pa or ±25 mr 02 ±500 Pa or ±50 mr				
			CODE	Output		
			ANA BAC MOD	Analog (3 x) BACnet® Communications Modbus Communications		
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

General

Operating Conditions...... 0 - 50 °C (32 - 122 °F), 0 - 90 %RH non-condensing ..-20 - 60 °C (-4 - 140 °F) Storage Temperature24-30 Vdc / 20-26 Vac Power Supply. Power Consumption ... 200 mA max Pluggable screw terminal block Wiring Connections... (14 to 22 AWG) Pressure Connections.. Port for 1/8" ID tubing Protection IP65 Front plate Wall mount enclosure, SS304, suitable for wipe-down Enclosure. 225 mm wide x 182.5 mm high x 36 mm deep (8.86" x 7.19" x 1.46") Remote Sensor Plate..... .70 mm wide x 115 mm high x 45 mm deep (2.76" x 4.53" x 1.77") Weight... 1.3 kg Certification...... . CE, RoHS Country of Origin





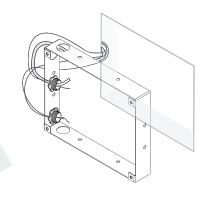


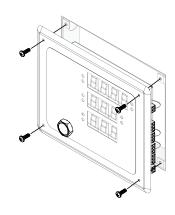


TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

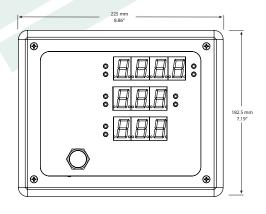
The CR3 should be mounted inside an opening in the wall that is 210 mm wide x 167 mm high. Ensure unit can be secured to wall stud or equivalent on at least two sides.

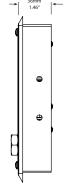


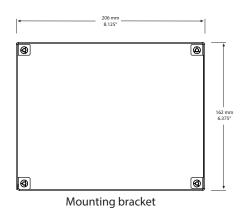


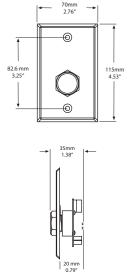
Remote sensor module for CR3B

DIMENSIONS









BACnet® COMMUNICATION



BACnet® is a data communication protocol for building automation and control networks. The detector communicates on a standard 2-wire RS-485 MS/TP (master-slave/token-passing) network designed to run at speeds from 9600 to 76800 baud over twisted pair wiring.

BACnet® is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BI.

MODBUS COMMUNICATION

Modbus is a network protocol for industrial manufacturing environments. The detector communicates on a standard Modbus network using either of two transmission modes: RTU (Remote Terminal Unit) or ASCII (American Standard Code for Information Interchange). The hardware interface is RS-485. Select the desired mode along with the other parameters using the Configuration Menu.



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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems.

We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.