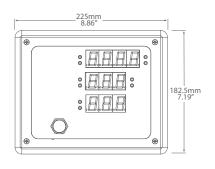
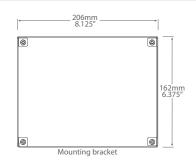


CLEANROOM MONITOR









CR4DKC SERIES

PRODUCT DESCRIPTION

The CR4DKC Series Cleanroom Monitor was developed specifically to allow for monitoring of confined spaces with accuracy and reliability.

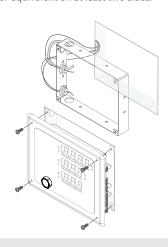
The CR4DKC features analog inputs for connecting remote sensors for monitoring temperature, humidity and pressure (remote sensors not included). The CR3C is available with output signal of either Analog, BACnet $^\circ$ or Modbus. Standard features include adjustable alarm relays for each parameter, audible/visual alarms, and large LED displays.

The CR4DKC is housed in a flush fitting stainlesssteel front plate that enables the user to wipe down the unit when necessary.

TYPICAL INSTALLATION

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

The CR4DKC should be mounted inside an opening in the wall that is 210 mm wide x 167 mm high. Ensure the unit can be secured to a wall stud or equivalent on at least two sides.



SPECIFICATIONS			
ANALOG INPUT FOR REMOTE SENSORS	Signal Type: 4-20 mA / 0-5 Vdc / 0-10 Vdc selectable Number of Inputs: 3 (Temp, RH, DP) Input Impedance: 250Ω for 4-20 mA, 10KΩ for voltage Input Ranges: 0 to 35°C or 0 to 50°C, 0 to 100 %RH Transmitter Power Output: 20 Vdc nominal, 100 mA max		
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" (20.32mm) 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: 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 maximum Voltage - 10 KΩ minimum Output Scales: 0 to 50°C, 0 to 100 %RH, ±500Pa		
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 alarm 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) Operation: 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")		
WEIGHT	1.3 kg		
CERTIFICATION	CE, RoHS		
COUNTRY OF ORIGIN	Canada		



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.

ORDERING		
PRODUCT	CR4DK	S/S Clean Room Sensor - Temperature, Humidity & Low Pressure
LCD DISPLAY	C	Remote Sensor Analog Inputs (Sensors Not Included)
PRESSURE RANGE	03	±500 Pa (field adjustable)
OUTPUT	ANA BAC MOD	Analog (3x) BACnet® Communications Modbus Communications

PART NUMBER
CR4DK

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

