

CARBON MONOXIDE

DETECTOR

CMD5B Series

The CMD Series carbon monoxide detector uses an electrochemical sensor to monitor the carbon monoxide level and outputs a field-selectable 4-20 mA or voltage signal. The voltage signal may also be set to 0-5 or 0-10 Vdc. The sensing range and output may be scaled to either 100, 150, 300, 400 or 500 ppm via the on-board menu. A front panel LCD is standard to ensure easy setup and operation. It is available in either space or duct mount configurations.

Other standard features include a back light for the LCD, a front panel test switch, status indication and an alarm buzzer. The test function may also be controlled remotely with a digital input signal. The on-board menu allows for local configuration of all device parameters.

Optional features include one or two alarm relays and/or RS-485 network communications configured for either ModBus or BACnet protocol.

SPECIFICATION:

Sensor Type	
Sensor Agency Approvals	Sensor is UL Recognized
	Component for ANSI/UL-2034,
	UL-2075, E240671
Measurement Range	0-100, 150, 300, 400, or 500 PPM
	(Selectable)
Accuracy	
	(whichever is greater)
Accuracy rated	0° to 50°C (32° to 122°F), 15 to 95% RH
Life Expectancy	5-7 years in air
Typical Coverage Area	700 m ² (7500 ft ²) or 15 m (50 ft) radius
Operating Conditions	20° to 50°C (-4° to 122°F).
-	15 to 95% RH, 0.9 to 1.1 atm
Sample Method	Diffusion or flow through sample
	tube for duct mounted models
Stability	<5% signal loss/year
	<35 seconds for 90% step change
Power Supply	24 Vdc ± 20% or 24 Vac ± 10%
1 OWEI Supply	(non-isolated half-wave rectified)
Consumption	100 mA max. with all options on
	Reverse voltage protected and
r rotection circuit y	output limited
Output Signal	4-20 mA (Active), 0-5 or 0-10 Vdc
Output signal	(Selectable)
Output Drive at Canability	450 ohms max for current output,
Output Drive at Capability	10 Kohms min for voltage output
Outroot Description	
Output Resolution	
LCD Display	Displays PPM and menu parameters
	1 PPM resolution, 35 mmW x 15 mm H
	(1.4" x 0.6") Alpha-numeric 2 line X 8 character with backlight
Chahua LED	
	2 color (red/green) on front panel
lest Switch	Performs I/O tests, front panel and
D 41	remote connection
Buzzer Alarm	
Buzzer Trip Point	Programmable 20-500 ppm in
	10 ppm increments
Buzzer Delay	Programmable 0-10 minutes in
	1 minute increments



PRODUCT SELECTION INFORMATION:

MODEL	Product De	Product Description			
CMD5B	Carbon M	Carbon Monoxide Detector			
	CODE 4 5	Options Space ABS Duct ABS			
		CODE Circuit Board Relay 000 No relay 100 One Relay 110 Two Relays			
			CODE BAC MOD	Optional Communications BACNet Communications Modbus Communication	
 	 	+	+		

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

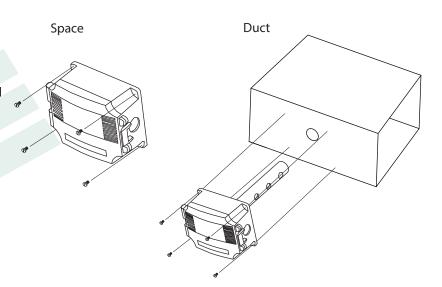
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Optional Relay Output	One or two Form C contact (N.O. and N.C.)
	5 amps @ 250 Vac, 5 amps @ 30 Vdc, p.f. = 1
	Relay 1 Trip Point - Programmable 20-500 PPM in 10 PPM increments
	Relay 2 Trip Point - Programmable 20-500 PPM in 10 PPM increments
	Relay Hysteresis - Programmable 10-100 PPM in 5 PPM increments
	Relay Delay - Programmable 0-10 minutes in 1 minute increments
Optional Communications	BACNet or Modbus (Refer to installation instructions for
	full details)
Wiring Connections	.Screw terminal block (14 to 22 AWG)
External Dimensions	.Space, 145 x 101 x 64mm (5.7"w x 4"h x 2.5"d)
	Duct, 145 x 101 x 240mm, (5.7"w x 4"h x 9.5"d) includes probe
Enclosure Ratings	.Space (4) - ABS - UL94-V - IP65 (NEMA 4X)
	Duct (5) - ABS - UL94-V - IP65 (NEMA 4X)
Field Calibration	.By applying calibration gas standards (Contact
	Greystone for calibration kit)
Accessories	.Calibration kit, model# CMD-CALKIT-GS
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TYPICAL INSTALLATION:

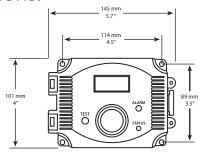
For complete installation and wiring details, please refer to the product installation instructions.

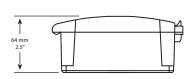
The CMD Space can be mounted directly to a wall using the 4 mounting holes provided.

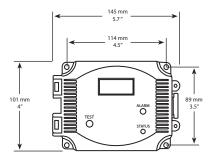
The CMD Duct is installed through the side of the duct, and fastened securely to the duct through the mounting holes provided.

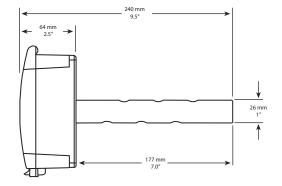


DIMENSIONS:









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