

# **CARBON MONOXIDE** DETECTOR **CMD5B1** Series

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The CMD Series carbon monoxide detector uses an electrochemical sensor to monitor the carbon monoxide level and outputs a 4-20 mA signal. The standard product features a 2-wire loop-powered output. Optionally, the device may be configured with an alarm relay and operates in 3-wire sourcing mode. Optional Modbus communications output is available

## SPECIFICATION:

SPECIFICATIC	JIN:			
Measurement				
Sample Method				
Measurement Range				
	<b>Modbus:</b> 0-500 ppm			
Accuracy	$\pm 5$ ppm or $\pm 5\%$ of reading			
	(whichever is greater)			
	@ 0-50°C (32-122°F), 15-95% RH			
Agency Approvals	Sensor is UL Recognized for ANSI/UL-2034			
	and UL-2075, E240671			
	20-50°C (-4-122°F), 15-95% RH,			
Stability	< 5% signal loss/year			
Response Time	< 35 seconds for 90% step change			
Life Expectancy				
Typical Coverage Area	700 m <sup>2</sup> (7500 ft <sup>2</sup> ) or 15 m (50 ft) radius			
	Screw terminal block (14 to 22 AWG)			
Dimensions	71 w x 104 h x 46 d mm			
	(2.8" x 4.1" x 1.8")			
	ABS - UL94-V, IP65 (NEMA 4X)			
Non Relay Model:				
Power Supply	<b>Analog:</b> 24 Vdc ±20% or 24 Vac ±10%			
	(non-isolated half-wave rectified)			
	Modbus: 24 Vdc ±20%			
Consumption:	3			
	Modbus: 35 mA max			
	4-20 mA (loop-powered w/ 24 Vdc)			
	550 ohms max @ 24 Vac/dc			
Relay Model: (Not available with Modbus Communications)				
Power Supply	24 Vdc ±20% or 24 Vac ±10%			
<b>c</b>	(non-isolated half-wave rectified)			
Consumption				
Output Signal				
Relay Contacts	Form C contacts (N.O. and N.C.)			
	5 Amps @ 250 Vac, 5 Amps @ 30 Vdc			
	25, 60 or 150 ppm, jumper selectable			
Relay Hysteresis	3% or 9 ppm			
Options:	Madhus Campuniastiana			
Optional Output	Modbus Communications			
	(Refer to Installation Instructions for			
	detailed specifications on Modbus)			

### PART NUMBER SELECTED

#### **PRODUCT SELECTION INFORMATION:** MODEL

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	MOI	DEL	Product Description				
Ŀ	CMD	5B1	Wall/Surface Mount Carbon Monoxide Detector				
			CODE	Relay Option			
		00 10		No Relay With Relay (Not available with Modbus Communications)			
				CODE	Options		
				MOD	Modbus Communications		
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

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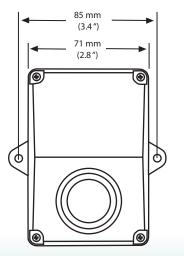
# **TYPICAL INSTALLATION:**

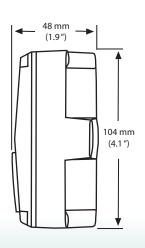
#### For complete installation and wiring details, please refer to the product installation instructions.

The enclosure should be mounted on a flat surface 1-1.5 m (3-5') from the floor of the area to be controlled. Do not mount the sensor near doors, opening windows, supply air diffusers or other known air disturbances. Avoid areas with vibrations or rapid temperature changes.

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