GREYSTONE
ENERGY SYSTEMS INC

CARBON MONOXIDE DETECTOR
CMD5B1 Series

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:

Measurement:......................Electrochemical
Sample Method:................Diffusion
Measurement Range:..........**Analog:** 0-300 ppm
        Modbus: 0-500 ppm
Accuracy:................................± 5 ppm or ± 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
Operating Conditions:........-20-50˚C (-4-122˚F), 15-95% RH,
Stability:.............................< 5% signal loss/year
Response Time:....................< 35 seconds for 90% step change
Life Expectancy:...................5-7 years in air
Typical Coverage Area:.......700 m² (7500 ft²) or 15 m (50 ft) radius
Wiring Connections:..........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")
Enclosure:...............................ABS - UL94-V, IP65 (NEMA 4X)
Non Relay Model:
Power Supply:.......................**Analog:** 24 Vdc ±20% or 24 Vac ±10%
        (non-isolated half-wave rectified)
        Modbus: 24 Vdc ±20%
Consumption:......................**Analog:** 20 mA max
        Modbus: 35 mA max
Output Signal:.......................4-20 mA (loop-powered w/ 24 Vdc)
Output Drive Capability:..550 ohms max @ 24 Vac/dc
Relay Model: (Not available with Modbus Communications)
Power Supply:.......................24 Vdc ±20% or 24 Vac ±10%
        (non-isolated half-wave rectified)
Consumption:......................50 mA max
Output Signal:.......................4-20 mA sourcing
Output Drive Capability:..550 ohms max @ 24 Vac/dc
Relay Contacts:.....................Form C contacts (N.O. and N.C.)
        5 Amps @ 250 Vac, 5 Amps @ 30 Vdc
Relay Trip Point:....................25, 60 or 150 ppm, jumper selectable
Relay Hysteresis:..................3% or 9 ppm
Options:
Optional Output:................Modbus Communications
        (Refer to Installation Instructions for
        detailed specifications on Modbus)

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.

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
CMD5B1	Wall/Surface Mount Carbon Monoxide Detector

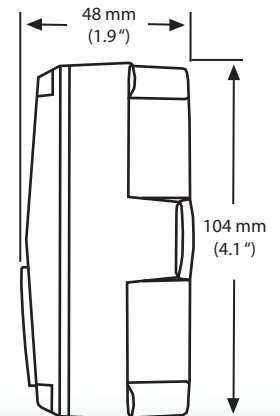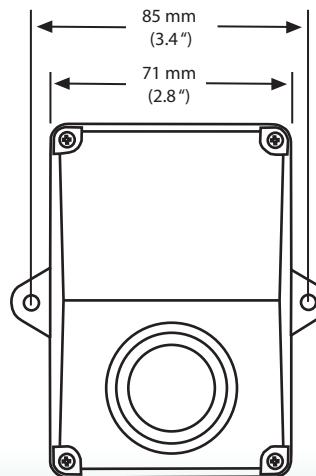| CODE	Relay Option
000	No Relay
100	With Relay (Not available with Modbus Communications)

CODE	Options
MOD	Modbus Communications

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

85 mm (3.4")
71 mm (2.8")
48 mm (1.9")
104 mm (4.1")

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RoHS COMPLIANT

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CE

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