



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
 (which ever 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)

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.

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.

