WALL CARBON MONOXIDE DETECTOR

CMD5B1 SERIES

PRODUCT DESCRIPTION
The CMD series carbon monoxide detector uses an electrochemical sensor to monitor the carbon monoxide level and outputs a factory calibrated 4-20 mA, 0-10 Vdc, or Modbus signal. Optionally, the device may be configured with an alarm relay.

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.

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 to 50°C (32 to 122°F), 15 to 95 %RH

AGENCY APPROVALS Sensor is UL Recognized for ASNI/UL-2034 and UL-2075, E240671
OPERATING CONDITIONS -20 to 50°C (-4 to 122°F), 15 to 90 %RH, 0.9-1.1 atm
STABILITY <5% signal loss/year
RESPONSE TIME <35 seconds for 90% step change
LIFE EXPECTANCY 7 years in air
TYPICAL COVERAGE AREA 700m² (7500ft²) or 15m (50ft) radius
WIRING CONNECTIONS Screw terminal block (14 to 22 AWG)
ENCLOSURE ABS, UL94-V, IP65 (NEMA 4X)
ENCLOSURE DIMENSIONS 71mm W x 104mm H x 48mm D (2.8" x 4.1" x 1.9")
COUNTRY OF ORIGIN Canada

NON-RELAY MODEL
Power Supply: 24 Vdc ±20% or 24 Vac ± 10% (non-isolated half-wave rectified)
Consumption: 20 mA max
Output Signal: 4-20 mA loop-powered or 0-10 Vdc (factory calibrated)
Output Drive Capability @ 24 Vdc: Current - 550Ω max
Voltage - 10,000Ω min

RELAY MODEL
Power Supply: 24 Vdc ±20% or 24 Vdc ±10% (non-isolated half-wave rectified)
Consumption: 40 mA max
Output Signal: 4-20 mA sourcing or 0-10 Vdc (factory calibrated)
Output Drive Capability @ 24 Vdc: Current - 550Ω max
Voltage - 10,000Ω min
Relay Contacts: Form C contacts (N.O. and N.C.), 5 Amps @ 250 Vac, 5 Amps @ 30 Vdc
Relay Trip Point: 25, 60 and 150 ppm - jumper selectable
Relay Hysteresis: 3% or 9 ppm

SPECIFICATIONS

ORDERING

PRODUCT CMD5B1
RELAY OPTION 000 Wall/Surface Mount Carbon Monoxide Detector
No Relay
100 With Relay (Not available with Modbus communications)
OPTIONS 010 Leave blank for 4-20 mA
MOD 0-10 Vdc output
MODBUS communications

PART NUMBER CMD5B1

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

RoHS COMPLIANT

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