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.

PRODUCT HIGHLIGHTS

• 0-500PPM range.

• Analog outputs, 4-20mA or 0-5/0-10Vdc selectable

• Modbus RTU or BACnet communication

• Coverage area of 700m2

• Optional one or two Form C relay with selectable alarm point.

• Back lit LCD

• Front Panel test switch

• Remote test switch available

• Front Panel bi-color status LED

• Alarm Buzzer

• On board menu for configuration

• RS-485 network with either BACnet or Modbus protocol

* Wall or Duct Mounting options

SPECIFICATIONS

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| DESCRIPTION | ENGINEERING SPEC |
| SENSOR | CO Sensor, Electrochemical |
| AGENCY APPROVALS | Sensor is UL Recognized for ASNI/UL-2034 and UL-2075, E240671 |
| SAMPLE METHOD | Diffusion |
| MEASUREMENT RANGE | 0-100, 150, 300, 400, or 500 ppm (selectable) |
| ACCURACY | ±5 ppm or ±5% of reading (whichever is greater)  0 to 50°C (32 to 122°F), 15 to 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 | 700m2 (7500ft2) or 15m (50ft) radius |
| POWER SUPPLY | 24 Vdc ±20% or 24 Vac ±10% (non-isolated half-wave rectified) |
| CONSUMPTION | 100 mA maximum with all options on |
| PROTECTION CIRCUITRY | Reverse voltage protected and output limited |
| OUTPUT SIGNAL | 4-20 mA (Active), 0-5 or 0-10 Vdc (Selectable) |
| OUTPUT DRIVE AT CAPABILITY | Current: 450Ω maximum  Voltage: 10 KΩ minimum |
| OUTPUT RESOLUTION | 10 bit PWM (±0.4ppm) |
| LCD DISPLAY | Displays PPM and menu parameters 1ppm, 35mm W x 15mm H (1.$” x 0.6”)  Alpha-numeric 2 line x 8 character with backlight |
| STATUS LED | 2 color (red/green) on front panel |
| TEST SWITCH | Performs I/O tests, front panel and remote connection |
| BUZZER ALARM | 85 db @ 10 cm |
| BUZZER TRIP POINT | Programmable 20-500 ppm in 10 ppm increments |
| BUZZER DELAY | Programmable 0-10 minutes in 1 minute increments |
| OPTIONAL RELAY OUTPUT | One or two Form C (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 |
| WIRING CONNECTIONS | Screw terminal block (14 to 22 AWG) |
| FIELD CALIBRATION | By applying calibration gas standard (contact Greystone for calibration kit) |
| COMMUNICATION | BACnet® or Modbus (Refer to installation instructions for full details) |
| OPERATING CONDITIONS | -20 to 50°C (-4 to 122°F), 0-90 %RH non-condensing |
| STORAGE TEMPERATURE | -20 to 60°C (-4 to 140°F) |
| ENCLOSURE | ABS, UL94-V, IP65 (NEMA 4X)  Space: 145mm W x 101mm H x 64mm D (5.7” x 4” 2.5”)  Duct: 145mm W x 101mm H x 240mm D (5.7” x 4” x 9.4”) |
| COUNTRY OF ORIGIN | Canada |