GREYSTONE ENERGY SYSTEMS INC

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.

Other standard features include a back light for the LCD, a front panel test switch, status indication and an alarm buzzer. The test function may also be controlled remotely with a digital input signal. The on-board menu allows for local configuration of all device parameters.

Optional features include one or two alarm relays and/or RS-485 network communications configured for either ModBus or BACnet protocol.

SPECIFICATION:

Sensor Type	Electrochemical
Sensor Agency Approvals	Sensor is UL Recognized
	Component for ANSI/UL-2034,
	UL-2075, E240671
Measurement Range	0-100, 150, 300, 400, or 500 PPM
	(Selectable)
Accuracy	±5 PPM or 5% of reading
	(whichever is greater)
Accuracy rated	0° to 50°C (32° to 122°F), 15 to 95% RH
Life Expectancy	
Typical Coverage Area	700 m ² (7500 ft ²) or 15 m (50 ft) radius
Operating Conditions	20° to 50°C (-4° to 122°F),
	15 to 95% RH, 0.9 to 1.1 atm
Sample Method	Diffusion or flow through sample
	tube for duct mounted models
Stability	<5% signal loss/year
Response Time	<35 seconds for 90% step change
Power Supply	24 Vdc \pm 20% or 24 Vac \pm 10%
	(non-isolated half-wave rectified)
Consumption	100 mA max. 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	450 ohms max for current output,
	10 Kohms min for voltage output
Output Resolution	10 bit PWM (±0.4 ppm)
LCD Display	Displays PPM and menu parameters
	1 PPM resolution, 35 mmW x 15 mm H
	(1.4" 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

CARBON MONOXIDE DETECTOR CMD5B Series



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:



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

One or two Form C contact (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
BACNet or Modbus (Refer to installation instructions for full details)
Screw terminal block (14 to 22 AWG)
.Space, 145 x 101 x 64mm (5.7"w x 4"h x 2.5"d)
Duct, 145 x 101 x 240mm, (5.7"w x 4"h x 9.5"d) includes probe
.Space (4) - ABS - UL94-V - IP65 (NEMA 4X)
Duct (5) - ABS - UL94-V - IP65 (NEMA 4X)
.By applying calibration gas standards (Contact
Greystone for calibration kit)
.Calibration kit, model# CMD-CALKIT-GS



TYPICAL INSTALLATION:

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

The CMD Space can be mounted directly to a wall using the 4 mounting holes provided.

The CMD Duct is installed through the side of the duct, and fastened securely to the duct through the mounting holes provided.





DIMENSIONS:











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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM