

HCMD5B1 Series of Carbon Monoxide Detector



The HCMD5B1 Series carbon monoxide detector uses a superior electrochemical sensing element with state-of-the-art digital linearization circuitry in a compact wall mount ABS enclosure to detect CO levels. It provides a linear analog signal output of 4-20 mA (Loop-powered with 24 Vdc) signal or optional Modbus communications. An optional alarm relay are available.

APPLICATIONS

The HCMD5B1 series carbon monoxide detector is designed for use with electronic controllers in domestic or commercial heating and cooling systems.

FEATURES

- Electrochemical sensing element
- 0-300 PPM (Analog) or 0-500 PPM (Modbus)
- Loop-powered 4-20 mA output
- Optional adjustable alarm relay
- Optional Modbus communications
- Compact ABS enclosure

SPECIFICATIONS

Sensor Type:.....Electrochemical
Measurement Range:.....Analog: 0-300, Modbus: 0-500 PPM
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:.....5-7 years in air
Typical Coverage Area:.....700 m² (7500 ft²) or 15 m (50 ft) radius
Operating Conditions:.....-20° to 50°C (-4° to 122°F), 15 to 95% RH,
Sample Method:.....Diffusion
Stability:.....<5% signal loss/year
Response Time:.....<35 seconds for 90% step change
Wiring Connections:.....Screw terminal block (14 to 22 AWG)
External Dimensions:.....71 x 104 x 46mm (2.8" w x 4.1" h x 1.8" d)
Enclosure Ratings:.....ABS - UL94-V - IP65 (NEMA 4X)
Sensor Agency Approvals:..Sensor is UL Recognized Component for ANSI/UL-2034, UL-2075,

Non Relay Model:

Power Supply:.....**Analog:** 24 Vdc \pm 20% or 24 Vac \pm 10%
Modbus: 24 Vdc \pm 20%
Consumption:.....**Analog:** 20 mA max.
Modbus: 35 mA max.

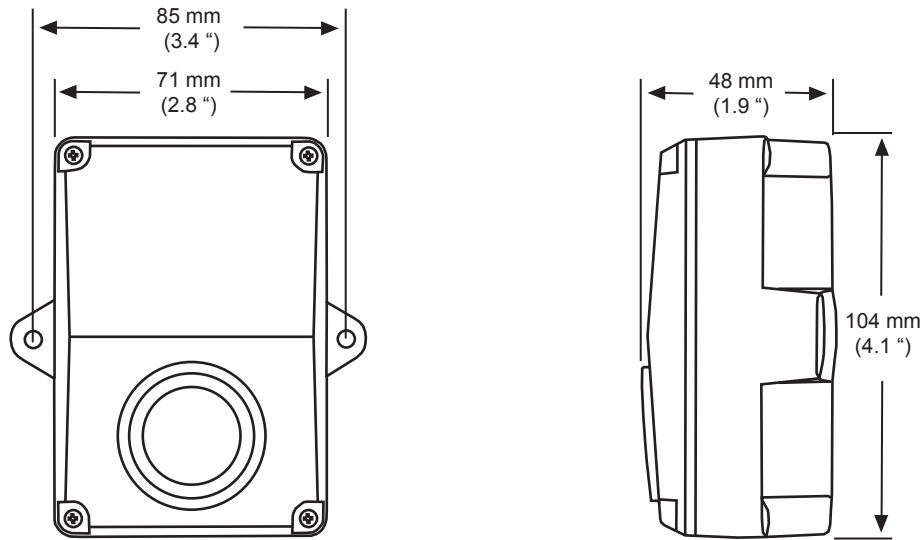
Output Signal:.....4-20 mA (Loop-powered with 24 Vdc)
Output Drive at Capability:..550 ohms max. @ 24 Vac/dc

Relay Model: (Not available with Modbus Communications)

Power Supply:.....24 Vdc \pm 20% or 24 Vac \pm 10%
Consumption:.....50 mA max.

Output Signal:.....4-20 mA sourcing
Output Drive at Capability:..550 ohms max. @ 24 Vac/dc
Relay Contacts:.....Form C contact (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

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ORDERING

MODEL	Product Description
HCMD5B1	Carbon Monoxide Detector

CODE	Relay Output (Not available with Modbus)
000	No Relay
100	Form C, (NO & NC), 5 Amps @ 250Vac/30Vdc

CODE	Options
MOD	Modbus Communications

HCMD5B1	100	-
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