

GD-6 Combustible Gas Detection Specification

Gas Detection Equipment

- A. GD-6 Combustible Detector: Single, dual-level detector using catalytic bead sensor with a 5 year life; suitable over a temperature range of 0°F to 125°F (-10°C to 50°C); with 2 default alarm levels based on sensor type: 10% LEL and 20%LEL (field adjustable).
 - 1. Manufacturer:
 - a. MACURCO INC. (Basis of Design)
 - 2. Field Calibratable with Macurco Cal-Kit 1 and appropriate gas and concentration
 - 3. User Interface: Status Indicating Multicolor LED, Buzzer, and Hidden Display for configuration, testing, verification
 - 4. User Adjustable Settings with the onboard display and buttons
 - 5. Warranty: 2 Year Limited
 - 6. Internal Relays (Adjustable Setpoints)
 - a. Relay 1 10%LEL (Field Adjustable: diS (disable) 3, 4, 5, 6, 7, 8, 9, 10 (default), 11, 12, 13, 14, 15, 16, 17, 18, 19, 20% LEL) - **5A SPDT**
 - b. Relay 2 20%LEL (Field Adjustable: diS, (disable) 5, 10, 15, 20 (default), 25% LEL) - **0.5A SPST**
 - 7. Range: 0-50% LEL
 - 8. Gas Value Outputs:
 - a. Analog 4-20mA Output
 - b. MODBUS RTU Output with Macurco MRS-485 Adapter
 - c. BACnet MSTP with Macurco BRS-485 Adapter
 - 9. Ambient Humidity: 10-90% non-condensing
 - 10. Low Level Alarm: Refer to controls drawings
 - 11. High Level Alarm: Refer to controls drawings
- B. Provide all valves, horns and strobes as indicated on the drawings. Controls contractor to provide all relays and interconnect wiring for horn/strobes, BMS integration, and appliance shutdown.
- C. Installation shall be completed by controls contractor or mechanical contractor



GD-6 Combustible Gas Detector

Overview

The Macurco GD-6 Combustible Gas Detector is designed to provide continuous combustible gas monitoring in various applications such as but no limited to: battery charging, boiler rooms, warehouses, landfills, golf cart, battery back-up, utility solutions, as well as other similar applications. In the event of a combustible gas leak, gas can accumulate to dangerous levels that may lead to an explosive environment if not monitored and mitigated properly. The GD-6 Combustible Gas Detector is calibrated to Hydrogen (H₂), Methane (CH₄) and Propane (C₃H₈) and comes standard with 2 alarm levels. These warnings provide advanced warning via low detection alarming and notification to activate two onboard relays that can be used to control valves to shutdown supply lines, engage exhaust fans, provide notification alarms, and communicate to a Building Management System (BMS). The GD-6 comes standard with Analog 4-20mA output and can be configured with optional Modbus RS-485 and BACnet communication.

Specifications

Size:	4 1/2 x 4 x 2 1/8 in. (11.4 X 10.2 X 5.4 cm)
Weight:	1 pound (0.45 kg)
Enclosure:	Polycarbonate, IP42
Operating Temperature:	0°F to 125°F (-10°C to 50°C)
Operating Humidity:	0% to 90% RH non-condensing
Status Light Indicators:	Green – Power
Sensor Response:	≤ 5 Seconds
Display:	3 Character LED
Inputs	Power Input: 14-24VDC/14VAC-120V Low Voltage: 3 W (max) from 12 to 24 VAC or 12 to 48 VDC
Outputs	
Relay Rating (2):	5A SPDT & 0.5A SPST
MODBUS:	Modbus RTU RS-485 (need MRS-485 adapter)
BACnet:	BACnet MSTP (need BRS-485 adapter)
Audible indicator:	Buzzer, 75 dB at 1', 72dB at 10'
Certification:	ETL List to UL 2075, ULC588, CE Listed

User Interface

Status Lights:	Green - Power
Buzzer:	Buzzer, 75 dB at 1', 72dB at 10'
Display:	Display for gas reading, configuration menu, testing
Buttons:	Allows for configuration

Quality

Certification:	ETL Listed to UL 2075, UL588, CE Listed
Quality:	REACH/RoHS

