



HGD-2000 Hydrogen Gas Detectors



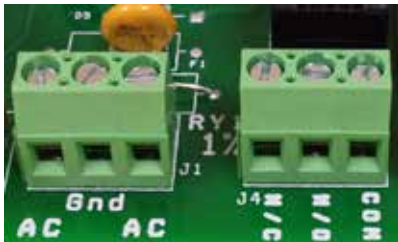
HGD-2000

Product Overview

The **HGD-2000 Hydrogen Gas Detector** allows the user to monitor hydrogen gas buildup in storage rooms and facilities that house batteries. The HGD-2000 is easy-to-use and easy-to-install. The detector has a terminal block for connection to single-phase AC power source and two internal relays. The relays can be used to switch a remote exhaust fan and/or alarm on and off. If the concentration of hydrogen gas in the air surrounding the sensor reaches 1% by volume, the yellow LED will light and the 1% internal relay will close. A four second delay prevents false activation. If the concentration reaches 2%, the red LED will flash, the internal 80 db warning alarm will sound, and the 2% internal relay will close.

Features

- Automatic Operation and Continuous 24/7 Monitoring
- Long Lifespan for Reliable Monitoring
- High Sensitivity and Stability
- Inexpensive protection for equipment and personnel
- Save insurance costs - reduce insurance premiums when placed in battery charging rooms



(2) Form C Contacts



Control Box

Applications

- Utilities and Power Plants
- UPS Power Systems
- Fuel Cell Test Stations
- Nuclear Waste Reforming
- Hydrogen Refueling Stations
- Fire Department
- Battery Suppliers
- Battery Charging Rooms
- Motive Power
- Golf Cart

Technical Specifications

Target Gas:	Hydrogen 1% Vol (warning) 2% Vol (Alarm)
Alarm Relay:	(2) form C contacts provided, user-configurable connections
Mounting:	(4) 4.5 mm (3/16 in) screws
Operating Environment:	Temperature: -10 – 40 °C (14 – 104 °F)
Power Requirements:	85 – 265 VAC, 50/60 Hz (standard) 17 – 60 VDC (upon request)
Dimensions:	178 x 120 x 55 mm (7 x 4.75 x 2.5 in)
Compliance:	IEEE Standard 450; National Fire Protection Agency (NFPA) Article 64; NFPA 2: Hydrogen Technologies Code; Uniform Building Code (UBC) Section 6400; National Electric Code (NEC) Section 480.9 (A); NEC 501.125 (B); NEC 501.105 (1)-3 - use in Class 1 Division 2 Group B.
Indicator / Display:	(3) LEDs
Weight:	1 lbs
End-of-life Years:	5
Warranty:	1 year

Kit Includes

- HGD-2000
- User Manual
- **Optional:** Control Box and cable for remote alarm control and display
- **Optional:** Junction Box
- Compliance Certificate available on request

Ordering Information

Model No.	Description
HGD-2000	Hydrogen Gas Detector (Dual-Relay)
HGD-Remote Box	Remote control box with 25 Ft connection cable