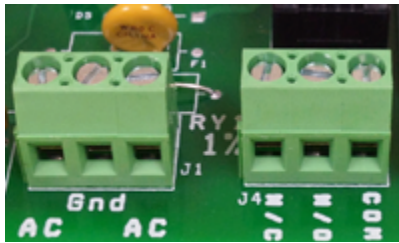




## HGD-2000 Hydrogen Gas Detectors



HGD-2000



(2) Form C Contacts

### 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



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

|                               |                                                                                                                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Alarm Relay:</b>           | (2) form C contacts provided, user-configurable connections                                                                                                                                                                                                                 |
| <b>Mounting:</b>              | (4) 4.5 mm (3/16 in) screws                                                                                                                                                                                                                                                 |
| <b>Operating Environment:</b> | Temperature: -10 – 40 °C (14 – 104 °F)                                                                                                                                                                                                                                      |
| <b>Power Requirements:</b>    | 85 – 265 VAC, 50/60 Hz (standard)<br>17 – 60 VDC (upon request)                                                                                                                                                                                                             |
| <b>Compliance:</b>            | 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. |
| <b>Dimensions:</b>            | 178 x 120 x 55 mm (7 x 4.75 x 2.5 in)                                                                                                                                                                                                                                       |

### Kit Includes

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

### Ordering Information

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