



HGD-5000 Hydrogen Gas Detector



HGD-5000

Hydrogen Gas Detection

The HGD-5000 Hydrogen Gas Detector will monitor hydrogen gas buildup in storage rooms and facilities that house batteries. The detector provides terminal block connections for single-phase 110 AC, 24VAC or 18-60VDC power. Detected Hydrogen levels are displayed in % Vol and traffic light indication - Green (Normal) Yellow (Warning) Alarm (Red). The control relays are used to switch an exhaust fan and warning alarms, the detector also provides analogue outputs that can be connected directly to the fan speed controller to regulate the fan speed. If the concentration of hydrogen gas detected reaches 1% Vol the screen will display yellow, and the warning relay will close activating the ventilation fan. If the concentration reaches 2% the screen will display red, and the alarm relay and an 80 dB internal warning will sound.

Features

- Replaceable sensor with a long life
- 110AC, 24V AC, 18-60VDC power supply
- 2* Internal relays for fan/alarm activation
- 2* Analogue outputs
- Output to external strobe
- 4-sec alarm delay to prevent false activation
- Supplied calibrated.

Applications

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

Technical Specifications

Target Gas:	Hydrogen 1% Vol (warning) 2% Vol (Alarm)
Alarm Relay:	(2) Internal relays, (2) Analog outputs
Mounting:	(4) #4 POZI screws
Operating Environment:	Temperature: -10 – 40 °C (14 – 104 °F)
Power Requirements:	110 VAC, 24VAC, 18~60VDC
Dimensions (H x W x D):	151 x 111 x 50 mm (5.95 x 4.37 x 1.97 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.
Housing Material:	ABS PA765. Flame Retardant UL 94V-1
Indicator / Display:	1.8" TFT
Weight:	7.5 oz
End-of-life Years:	10
Warranty:	3 year

Kit Includes

- HGD-5000
- User Manual
- **Optional:** Control Box and cable for remote alarm control and display
- **Optional:** Junction Box
- Compliance Certificate available on request