



# 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.
- Designed in the USA.

## 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

<b>Target Gas:</b>	Hydrogen 1% Vol (warning) 2% Vol (Alarm)
<b>Operating Environment:</b>	-10 – 40 °C (14 – 104 °F)
<b>Housing Material:</b>	ABS PA765. Flame Retardant UL 94V-1
<b>Display:</b>	1.8" TFT
<b>Rated Voltage:</b>	110 VAC, 24VAC, 18~60VDC
<b>Electrical Safety &amp; EMC:</b>	CE / UKCA BS EN 61010-1:2010 +A1:2019. & BS EN 50270.
<b>Dimensions (H x W x D):</b>	5.95 x 4.37 x 1.97 in
<b>Weight:</b>	7.5 oz
<b>End-of-life Years:</b>	10