

HGD Series 100 - Hydrogen Gas Monitor



Gas Detection, Measurement & Alarm Signalling Apparatus



Key Features

- Replaceable sensor with a long life
- 230AC, 24V AC, 18-60VDC power supply
- 2* Internal relays for fan/alarm activation
- 2* Analogue outputs (4-20mA or 0-10V field selectable)
- Bacnet MS/TP & Modbus RTU (field selectable)
- Output to external strobe
- 4-sec alarm delay to prevent false activation
- Supplied calibrated.
- Designed and manufactured in the UK
- In-built audible alarm

Model: HGD100 Series

Introducing the S&S HGD Series 100 Hydrogen Detector will monitor hydrogen gas buildup in storage rooms and facilities that house batteries. The detector provides terminal block connections for single-phase 230 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 extract 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.

Technical Specification

Target Gas	Hydrogen 1% Vol (warning) 2% Vol (Alarm)
Size: (H x W x D)	5.95 x 4.37 x 1.97"
Housing Material:	ABS PA765. Flame Retardant UL 94V-1
Weight:	7.5 oz
Display:	1.8" TFT
Rated Voltage:	230 VAC, 24VAC, 18~60VDC
Electrical Safety & EMC	CE / UKCA BS EN 61010-1:2010 +A1:2019. & BS EN 50270.
End-of-life years	10
Operating:	-10 – 40 °C (14 – 104 °F)

Applications

- Utilities and power stations
- UPS power stations
- Fuel cell test stations
- Nuclear waste management
- Hydrogen refuelling stations
- Fire and rescue service
- Battery suppliers
- Battery charging rooms
- Golf buggy

