



HGD-4000 Intrinsically Safe Gas Detector



HGD-4000is

Product Overview

The HGD-4000 Hydrogen Gas Detector allows the user to monitor hydrogen gas buildup in storage rooms and facilities that house batteries. The HGD-4000 is easy-to-use and easy-to-install. The detector has color-coded wires for connection to single-phase AC power source and two internal alarm 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, and the 2% internal relay will close.

This HGD-4000 model is designed to be intrinsically safe and meets the requirements for either Class I Division I or Class I Division II areas. The NFPA also has a new system that uses Zones in Chapter 505. This detector also meets the requirements for Zone 0 AEx ma ia IIC T6.

Features

- Automatic operation and continuous 24/7 monitoring
- LED status display
- Reliable, highly sensitive, highly stable
- Intrinsically safe operation
- Pre-calibrated sensor
- Simple installation
- Long operating life

Benefits

- Protects against Hydrogen explosions
- Inexpensive protection for your property and employees
- Decreases electricity costs as a result of controlled exhaust fan operation
- Insurance premium reduction may be realized
- Reduces air conditioning and heating costs as a result of controlled fan operation

Technical Specifications

Detection	Hydrogen Gas
Alarms	(1) 10A Form C Relay, (1) 200mA Solid State Relay
Relay Connections	Color-coded relay wires in Class I conduit
Mounting	(4) 4.5 mm (3/16 in.) screws
Environmental	Temperature: -10 – 40 °C (14 – 104 °F)
Power Requirements	Standard: 85 – 265 VAC, 50/60 Hz
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 I Division I or Class I Division II areas.
Dimensions	146 x 83 x 60 mm (5.75 x 3.25 x 2.375 in.)

Kit Includes

- Hydrogen Gas Detector
- User Manual

Ordering Information

Model #	Description
HGD-4000	Intrinsically Safe Gas Detector