



H2-IS

Hydrogen Detection

Model: H2-IS



Controller and H2-IS

- **Optional:** Controller for Local Readout
- Use With Windows or Linux OS
- **Optional:** Channels: Other Gases: CHG, LNG and LPG
- Companion To H2-IS The Dual-channel Intrinsic Safety Barrier Providing Sensor Power and Signal Communications To The Computer

Features

- Intrinsic Safety Approval (IS)
- Uses Normal Wiring and Open Conduit
- No Declassification of Facility Needed to Service H2-IS
- No Shut Down of Facility in Order to Service the H2-IS
- **Optional:** Automatic Sensor Calibration System Eliminates Manual Calibration
- H2-is Software Provides Data Archive ff Calibration Dates/Times and Before/After Sensor Values.

Application

Monitor Hydrogen Build Up Due to Leakage From Fuel Cell Operations.

- Garages, Airplane Hangers, Boat Houses, Maritime Ports; Anywhere H2 Hhas Replaced the Use of Batteries
- Construction Sites Using H2 Housed in Buildings or Containers for Heat and Power Until Site is Connected to the Power Grid
- Nasa Space Program
- Manufacturing of Devices that Formerly Used Batteries
- Hydrogen Fuel Cell Storage Facilities



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OTCQB-UCLE

Hydrogen Detection

Model: H2-IS

Specifications

Facility:

- Intrinsic Safety Approval (IS) - Class I, Div 1, Groups B, C and D.
- Uses normal wiring and open conduit OK, 3-core shielded
- No declassification of facility needed to service the sensor OK
- Use with Windows or Linux OS
- The sensor can be remote from the Optional controller up to 1,000 feet.
- Installed with hard-wired connection with a 3-conductor shielded cable

Detection:

- Hydrogen. Also detect other gases: CHG, LNG and LPG. Most combustibles.

Alarms:

- 0.25% (High), 1% (High, High), Fail Two alarm thresholds, user settable. A High, High failure would be indicated by high alarm (horn and strobe.)
- Alarms have two user-settable trip points, with two DPDT buffer relays (double-pole, double-throw relays.)
- Horn and strobe are standard. OK
- Buffer relays - High current (110VAC/10A) contacts that isolate sensor and control electronics from external user control voltages.

Optional: Controller and Display for local readout:

- The hydrogen level is on the display of the controller.
- Size of the display and type: 0.5" high; LCD
- 4-20ma sensor output signal + alarm relays

Range:

- Measuring range: 0-4%
- LEL: H2-IS is 4%.

Environmental Operating Conditions:

- Temp (0-120F) (-17 to +49C), RH? 5-95%, Non condensing

Power:

- Power to the controller is 110/120VAC or 24 VDC.
- **Optional:** DC rechargeable batteries and a charger. or use a UPS.



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Specifications *cont.*

Weight and Dimensions of:

- Sensor: 2.5 lbs (1.2Kg) 5 x 5 x 5.5" (127 x 125 x 140mm)
- Controller: circa 12 lbs (5.5Kg) 8 x 10 x 4" (203 x 254 x 101mm)
- Mounting options: normal wood or machine screws
- Environmental operating conditions: Temp (0-120F) (-17 to +49C), RH? 5-95%, Non condensing
- Calibration: **Optional:** A calibration package is available: SEN-CAP.

Dual-Channel Intrinsic Safety Barrier

- **Optional:** Model DBL-GB recommended to for safety of sensor power and signal communication to user's computer?



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