Reliable and Accurate Hydrogen Sensor

Designed for HYDROGEN MONITORING, this patent-pending, chemi-resistive ceramic sensor exhibits a highly sensitive, selective, and rapid response to the presence of hydrogen in ambient air. It reliably measures hydrogen concentration levels between 0.2% to 4.0% in air over a wide range of temperature and humidity variations.

**NTM SenseH$_2$®** hydrogen sensor provides a repeatable and stable response to low levels of hydrogen, even in the presence of CO, CH$_4$ and VOCs. A key feature is the quick response and recovery time. **NTM SenseH$_2$®** hydrogen sensor is a product in the NTM Sensors’ advanced technology portfolio. It has UL and ATEX certifications for operation in Class I Division 2/Zone 2 hazardous locations.

**Features & Benefits**

- High sensitivity to H$_2$ yet insensitive to CO and CH$_4$
  - providing a reliable signal without false positives
- Insensitive to humidity, temperature, and flow rate variation
  - allowing use in widely varying environments
- Linear and repeatable response to H$_2$ concentration
  - allowing measurement of discrete H$_2$ levels
- Rapid response and recovery times
  - allowing measurement of transient leaks without false positives
- Waterproof automotive grade connector
  - simple and common interface to external components
- Built-in diagnostics: short/open circuit and operating LED indicator
  - facilitates ease of use
- Durable and stable for long term operation
  - lowering cost of ownership
Applications Where the NTM SenseH₂® Hydrogen Sensor Excels:

- Hydrogen fuelled back-up power systems
- Battery based uninterruptible power supply (UPS) or cabinet systems monitoring
- Hydrogen refueling stations and hydrogen generation (electrolyzer) systems
- Fuel cell powered devices including forklift trucks
- Reducing atmosphere furnaces and laboratory monitoring
- Any hydrogen monitoring application where high sensitivity and quick response is required

NTM SenseH₂® Hydrogen Sensor Important Installation Guidelines:

Exposure to 100% hydrogen and other reducing conditions may damage the sensor. The sensor is calibrated for hydrogen detection in air. Use in oxygen concentrations other than air (21% O₂) can invalidate the sensor's calibration. Exposure to silicone-containing products such as sealants, hoses, and caulking compounds should be avoided.

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