

## HYDROGEN SENSOR NTM SenseH<sub>2</sub>®

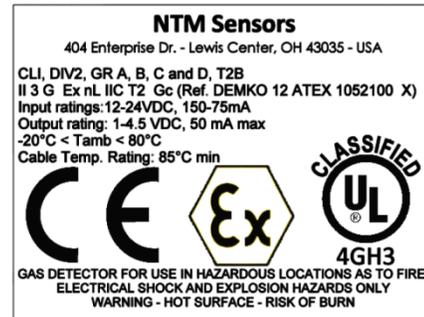
# Reliable and Accurate Hydrogen Sensor

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.

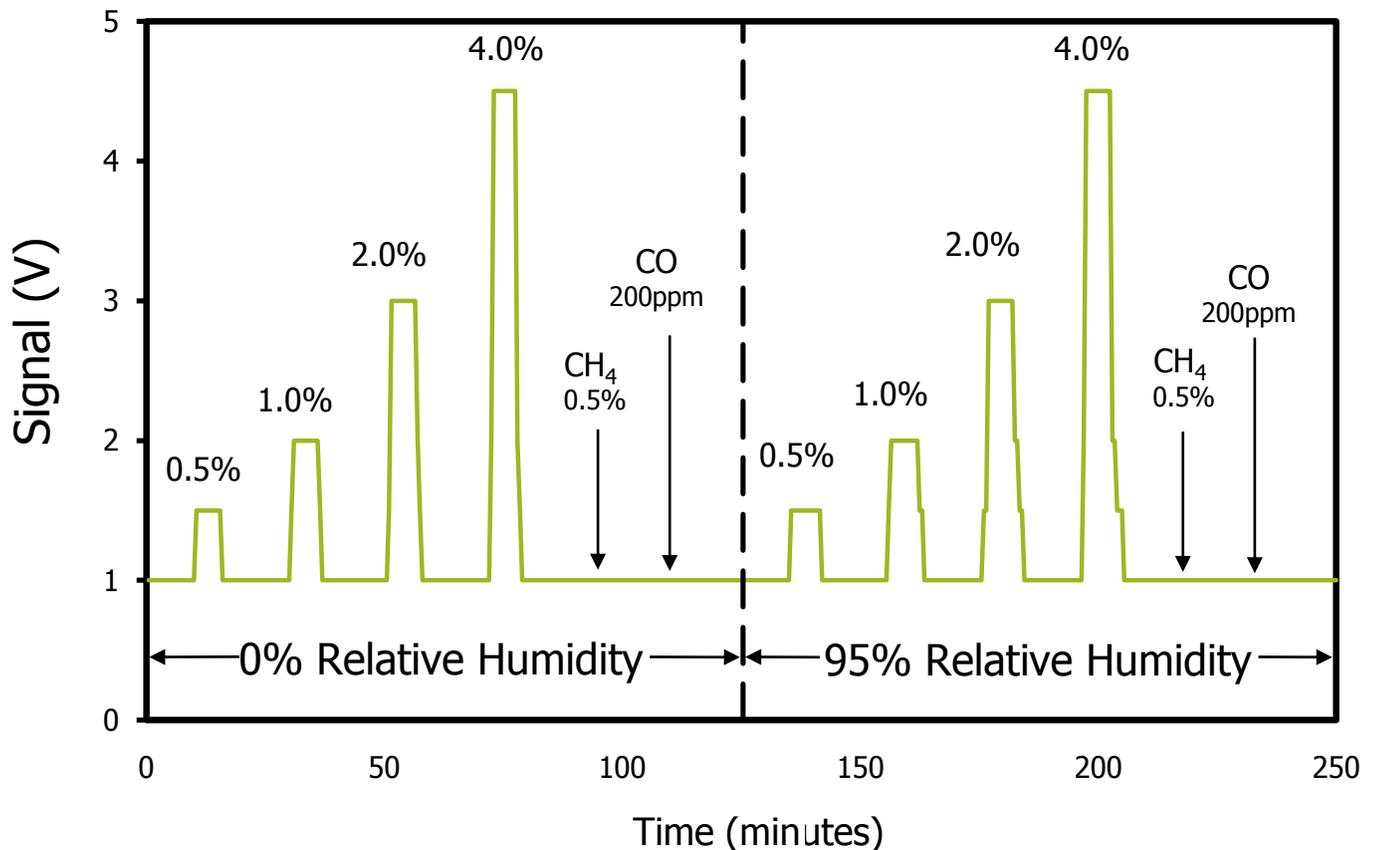
NTM SenseH<sub>2</sub>® hydrogen sensor provides a repeatable and stable response to low levels of hydrogen, even in the presence of CO, CH<sub>4</sub> and VOCs. A key feature is the quick response and recovery time. NTM SenseH<sub>2</sub>® hydrogen sensor is a product in the NTM Sensors' advanced technology portfolio. It has UL and ATEX certifications for operation in Class I Division 2/Zone 2 hazardous locations.

### ➔ Features & Benefits

- High sensitivity to H<sub>2</sub> yet insensitive to CO and CH<sub>4</sub>
  - *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<sub>2</sub> concentration
  - *allowing measurement of discrete H<sub>2</sub> 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*



➤ **Key Characteristics:**



➤ **Applications Where the NTM SenseH<sub>2</sub>® 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 SenseH<sub>2</sub>® 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% O<sub>2</sub>) 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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