



HYDROGEN SENSOR
NTM SenseH₂™

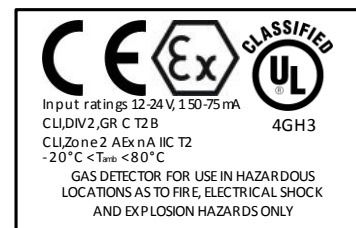
Reliable and Accurate Hydrogen Sensor

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 0.25% to 4.0% in air over a wide range of temperature and humidity variations.

NTM SenseH₂™ hydrogen sensor provides a repeatable and stable response to low levels of hydrogen, even in the presence of CO, CH₄ and VOCs. A key feature is the quick response and recovery time. NTM SenseH₂™ hydrogen sensor is a product in the NTM Sensors' advanced technology portfolio. It is UL and ATEX approved for use in hazardous locations.

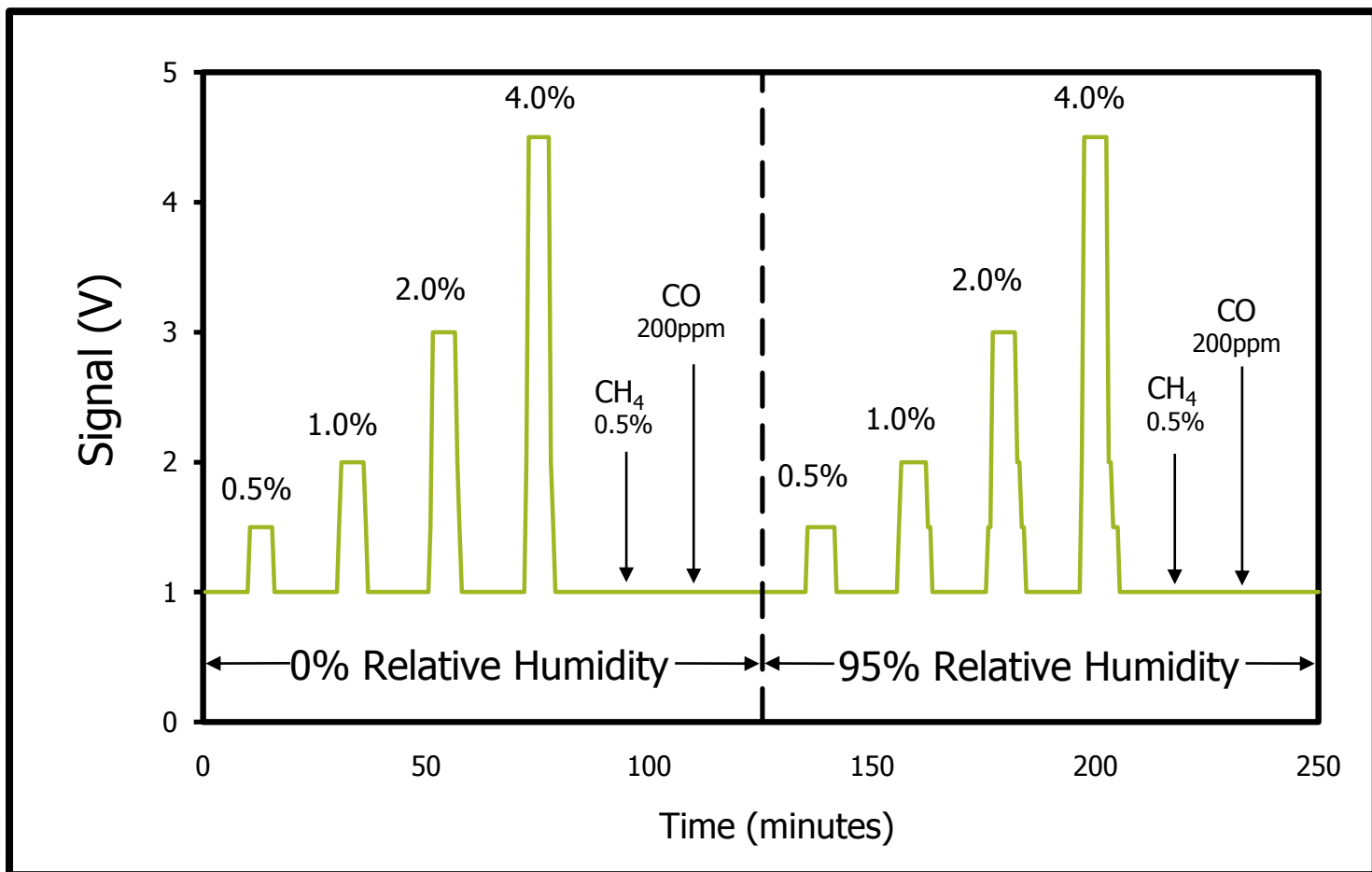
➤ Features & Benefits

- High sensitivity to H₂ yet insensitive to CO and CH₄
 - *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 H₂ concentration
 - *allowing measurement of discrete H₂ levels*
- Rapid response and recovery times
 - *allowing measurement of transient leaks without false positives*
- UL Classified, ATEX, CE for hazardous locations
 - *drop-in fit for applications in classified locations (Div2/Zone 2)*
- Durable and stable for long term operation
 - *lowering cost of ownership*
- Built -in diagnostics: short circuit, open circuit, and unit operating LED indicator
 - *facilitates ease of use*





Key Characteristics:



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. The device incorporates a poison-tolerant design; however, exposure to silicone-containing products such as sealants, hoses, and caulking compounds should be minimized. Long term exposures may cause sensor to over-report H₂ levels.

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