

HYDROGEN SENSOR

NTM SenseH₂[®]-R

Refrigerant gas tolerant sensor

NTM SenseH₂[®]-R Hydrogen Sensor

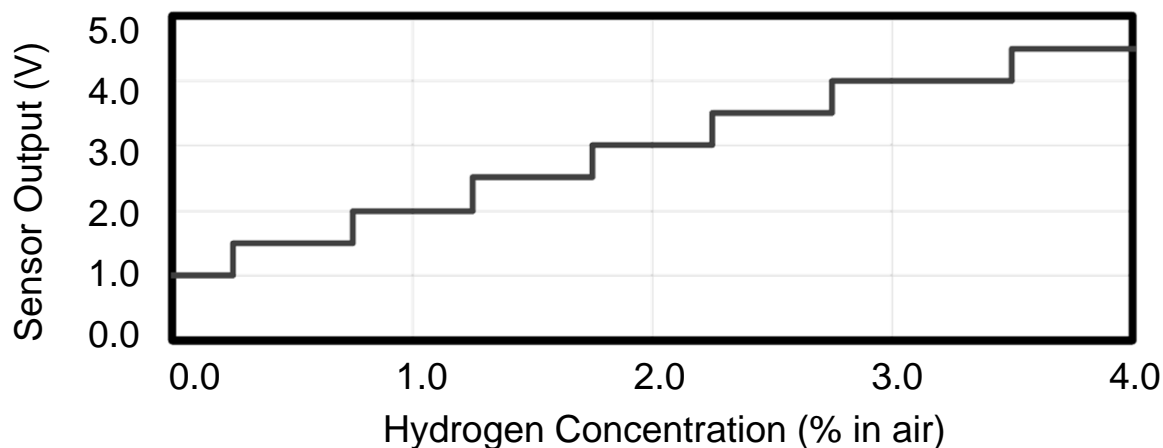


Features

- High sensitivity and selectivity to hydrogen
- Fast response and recovery times
- Immune to signal saturation
- Robust to widely varying ambient flow rates
- Compact and rugged design
- 1.0 to 4.5V output, spans 0.25 to 4.0% H₂ in air (5 to 100% LFL)

Intended Uses:

- The NTM SenseH₂[®]-R is intended for use as a hydrogen gas detector in the range of 0.25 to 4% hydrogen in air. This sensor is tolerant to halogen gasses commonly found in refrigerant gases and fire suppression systems.
- Typical applications include:
 - ✓ Uninterruptible power supply (UPS) systems monitoring,
 - ✓ Telecom systems monitoring Stationary fuel cells ,
 - ✓ Laboratory monitoring
 - ✓ Motive power charging stations

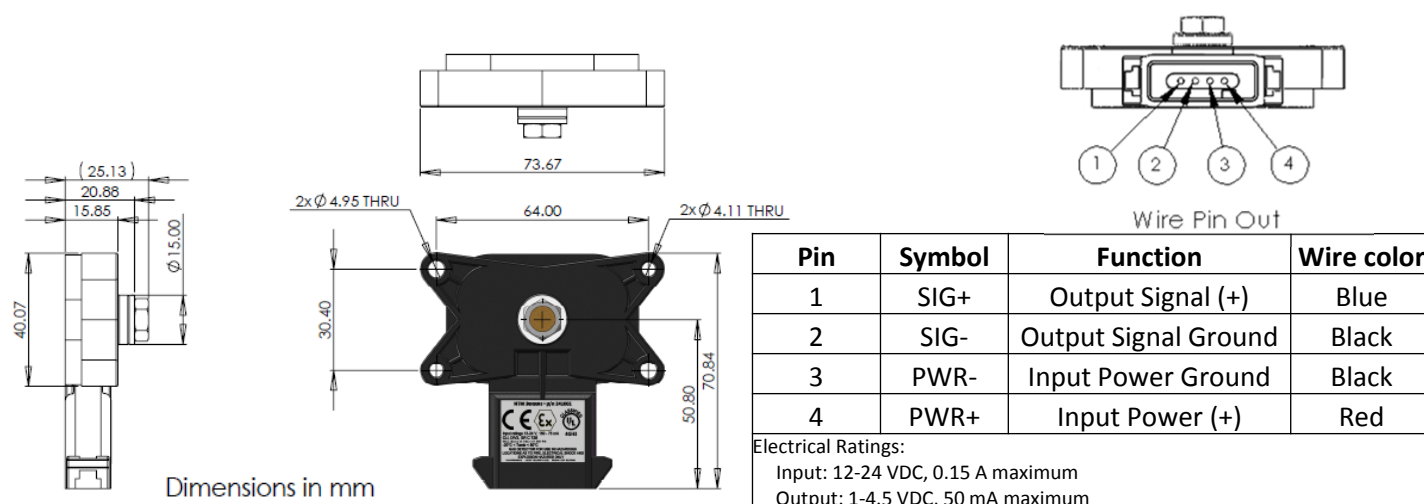


Standard Sensor Calibration

Table of Typical Characteristics:

Metric	Min	Max	Units
Characteristics:			
H ₂ range (in air)	0.25	4.0	%
Voltage input	12	24	Vdc
Output (sensing range)	1.0	4.5	Vdc
Error state (output signal)	0.0	0.75	Vdc
Error state (output signal)	4.75	5.00	Vdc
Power consumption (25°C)	0.10	0.15	A
Response time (T90)	—	5	Sec.
Recovery time (T10)	—	5	Sec.
Environmental Conditions:			
Ambient temperature	-20	80	°C
Relative humidity	5	95	%R.H.
Linear flow rate	0.02	5.00	m/s

Sensor Dimensions and Wire Pin Out:



WARNING: The NTM SenseH₂-R hydrogen sensor is not a stand alone safety device and does not provide protection from hydrogen explosion. The 1 to 4.5 V output signal, quantifying the hydrogen concentration in air, is intended to be an input to customer safety system, enabling audible alarms, system shutdown, ventilation, or other measures to ensure safe handling and use of hydrogen gas.