



Hydrogen Refueling and Generation Stations

For hydrogen refueling and generation stations, hydrogen safety requires hydrogen leak and build up detection in systems, enclosures, buildings and compartments.

The NTM SenseH₂™ hydrogen sensor has been developed to be cost effective, highly selective to hydrogen, and have quick response and recovery times.

The NTM SenseH₂™ hydrogen sensor has been incorporated by hydrogen generation equipment manufacturers into their systems.



PHOTO-ILLUSTRATION: CSIRO; XPLANE.COM

NTM SenseH₂™ hydrogen sensor is well suited for this application.....

- High sensitivity to hydrogen yet insensitive to other gases such as methane and carbon monoxide
- Accurate response in varying ambient flow environments, preventing false positive reporting
- Immune to signal saturation
- Robust, automotive grade, water-tight housing



For more information contact
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Metric	Min	Max	Units
Characteristics:			
H ₂ range (in air)	0.2	4.0	%
Voltage input	12	24	Vdc
Output (sensing range)	1	4.5	Vdc @ 50mA
Error state (open)	0.0	0.75	Vdc
Error state (short)	5.0	5.0	Vdc
Power consumption (25°C)	0.1	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.

**The NTM SenseH₂™ is calibrated in air and the calibration curve for the corresponding % hydrogen should only be applied for this type of atmosphere. The Sensor element needs oxygen in order to perform properly, 100% reducing environments will damage the sensor. **