



## Hydrogen Offgassing from Nuclear Waste



Hydrogen is outgassed during the nuclear waste reforming process. Throughout this process, it is necessary to monitor for hydrogen levels. The NTM SenseH<sub>2</sub>™ is suited for installation in these applications because it is very selective to hydrogen gas. The NTM SenseH<sub>2</sub>™ sensor can be connected to a ventilation system and alarms to activate these system devices when the hydrogen concentration reaches a predetermined level.

### NTM SenseH<sub>2</sub>™ 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



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Metric	Min	Max	Units
<b>Characteristics:</b>			
H <sub>2</sub> 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.
<b>Environmental Conditions:</b>			
Ambient temperature	-20	80	°C
Relative humidity	5	95	%R.H.

\*\*The NTM SenseH<sub>2</sub>™ 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. \*\*