

Fuel Cell or Battery Backup (UPS) Power System



To ensure a safe and dependable backup power system, it is prudent to monitor for either hydrogen leaks in the fuel cell back up system or hydrogen outgassing from the lead acid battery backup system.

The NTM SenseH₂™ hydrogen sensor can be mounted in the hydrogen fuel cell system, hydrogen storage enclosure, and in the battery cabinet or room.

When H₂ levels elevate to a predetermined threshold, the hydrogen sensor can send a signal to turn on ventilation, turn off the source of hydrogen, or activate an alarm.

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
NTM Sensors
a division of NexTech Materials Ltd.
sales@ntmsensors.com
p 614-842-6606

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. **