NTM Sensors
We sense a Green future™

# Lead Acid and Nickel Cadmium (NiCad) Battery Cabinets

Both lead acid and nickel cadmium (NiCad) batteries generate hydrogen due to water decomposition.

The NTM Sense$H_2$™ can be used to monitor the battery cabinet/housing and trigger a ventilation process. Providing adequate ventilation extends the life of the batteries. In addition, continuous hydrogen level monitoring can prevent catastrophic loss due to explosion.

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## NTM Sense$H_2$™ 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 Sense$H_2$™ 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. **