

Tips for Installation and use of the NTM SenseH₂[®] and Alarm system

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Best Locations for Sensor Installation

- ▶ Highest point in a room
- ▶ Near or above the hydrogen source
- ▶ Away from contaminant sources

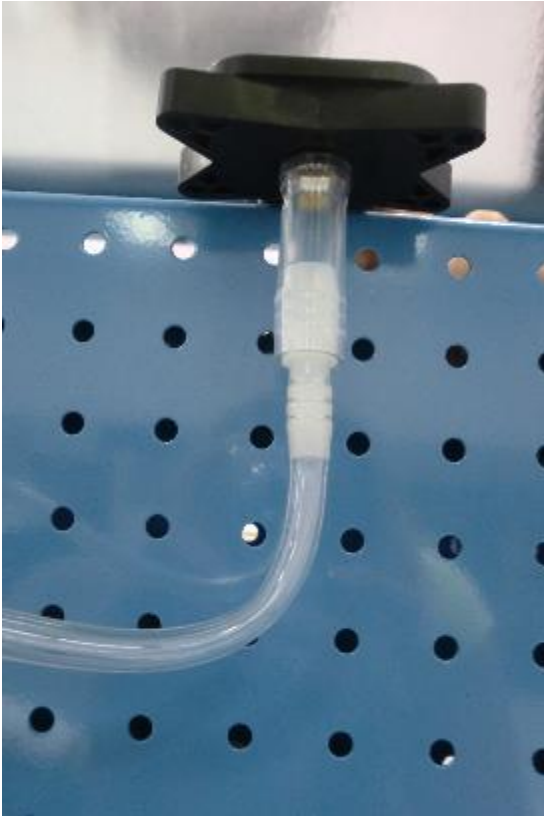


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Possible Contaminant Sources

- ▶ There are some known contaminants and background gases that can prevent the sensor from operating properly:
 - ▶ Silicon (common in lubricant oils, RTV sealants, gaskets)
 - ▶ Halogen compounds (refrigerant gases, fire extinguishers)
 - ▶ Low oxygen, or high hydrogen (>>4%) can permanently damage the sensor
 - ▶ High oxygen background causes the sensor to be unstable

Operation and Maintenance



- ▶ No sensor is maintenance free
- ▶ An annual calibration or test is recommended
- ▶ The alarm system has turn pots for onsite calibration
- ▶ Please contact your sales rep. for factory calibration of the sensor

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Key Factors to Continued Operation of the Sensor and Alarm System

- ▶ Locate an ideal installation site for the sensor
 - ▶ Elevated location
 - ▶ Far from HVAC sources, silicone sealants, and fire suppression systems
- ▶ Check, recalibrate, replace
 - ▶ Follow recommended testing procedures
 - ▶ Have the sensor factory recalibrated
 - ▶ Replace sensors overtime
 - ▶ Have a replacement/recalibration program



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Alarm Signaling



- ▶ Alarm settings come preset at 1% and 2% H₂
- ▶ Mechanical relays can be used to power a fan, or shut down the system
- ▶ Other alarm signals indicate:
 - ▶ Loss of power to the system
 - ▶ Loss of signal from the sensor
 - ▶ Other indicators may require factory testing of the sensor or alarm unit

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Summary

- ▶ Select the ideal location for sensor installation
- ▶ Maintain the sensor and alarm system:
 - ▶ Check signals on the alarm system if present
 - ▶ On site calibration of the alarm unit
 - ▶ Factory recalibration of the sensor
 - ▶ Institute a replacement/recalibration program for the sensor
- ▶ Contact NTM Sensors with any questions

We are here to support you and your application

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