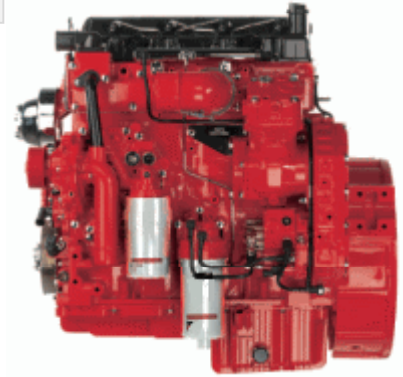


## Hydrogen booster for Diesel and other IC engines

Hydrogen can be added to the intake in an internal combustion engine to facilitate efficient hydrocarbon burn and to reduce emissions.

The NTM SenseH<sub>2</sub>™ hydrogen sensor is a key component for ensuring a safe process.

The sensor can be positioned to detect unsafe hydrogen levels and react with an output signal to turn on a separate ventilation system, to shut off the source of hydrogen, or to activate alarms.



### 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



For more information contact  
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[sales@ntmsensors.com](mailto:sales@ntmsensors.com)  
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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. \*\*