

Hydrogen Sensor
SensoriC H2 3E 4 %



Product Data Sheet

H2 3E 4 %

FEATURES

Amperometric 3 electrode sensor cell
Resistant to poison gases
Good long term stability
LEL detection

TYPICAL APPLICATIONS

TLV-monitoring, LEL-detection, fuel cells

PART NUMBER INFORMATION

MINI	0364-034-30009
SENSORIC CLASSIC	0364-034-30069
CTL 4 series adaptation	0364-034-30049
CTL 7 series adaptation	0364-034-30079

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TECHNICAL SPECIFICATIONS

Measuring Range	0–4% (100% LEL)
Sensitivity Range	1 nA/ppm \pm 0.5 nA/ppm
Zero Current at 20°C	< \pm 100 nA
Resolution at 20°C	< 100 ppm
Bias Potential	0 mV
Linearity	< 10% full scale
Response Time at 20°C	
t50	< 40 s calculated from 2 min. exposure time
t90	< 60 s calculated from 2 min. exposure time
Long Term Sensitivity Drift	< 10% per 6 months
Operation Conditions	
Temperature Range	-20°C to +40°C
Humidity Range	15–95% r.H., non–condensing
Effect of Humidity	no effect
Sensor Life Expectancy	> 24 months
Warranty	18 months

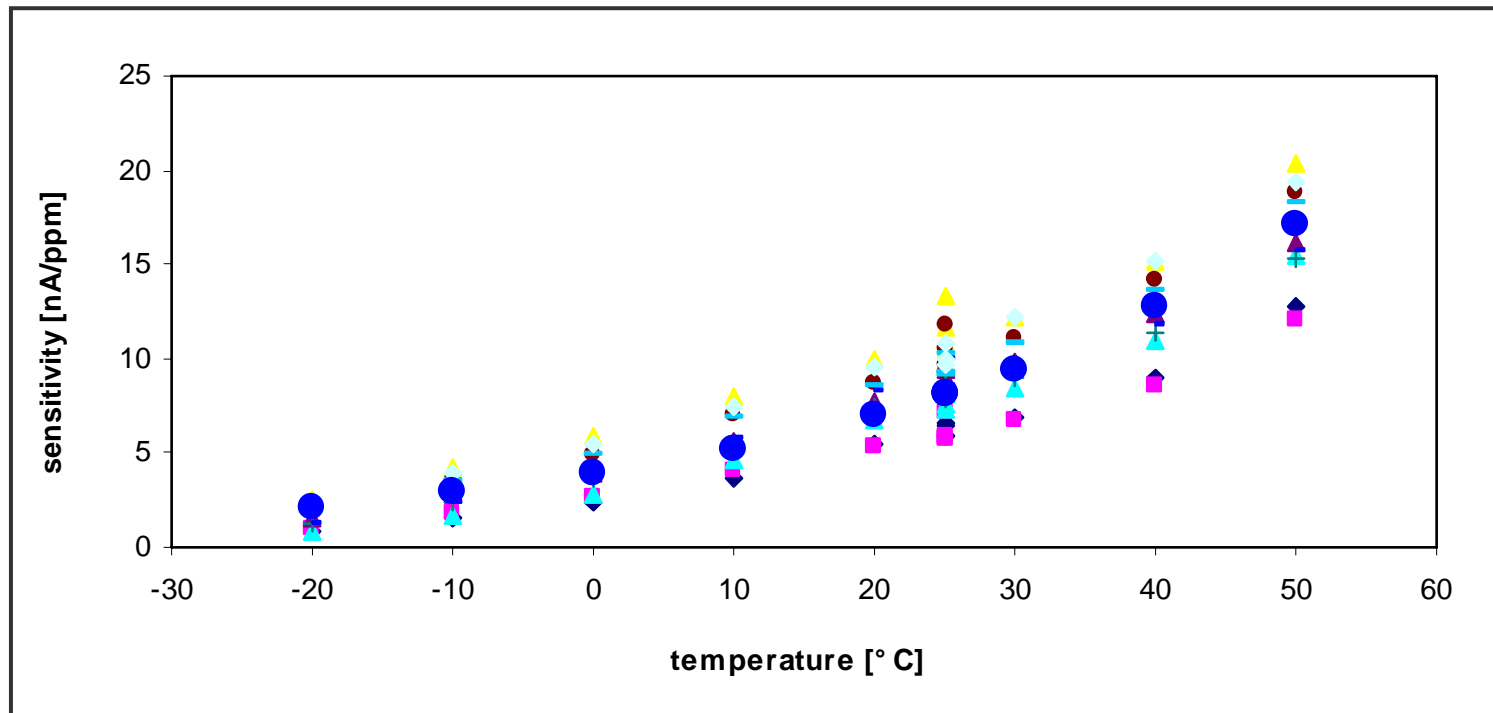
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OUTPUT vs. TEMPERATURE:



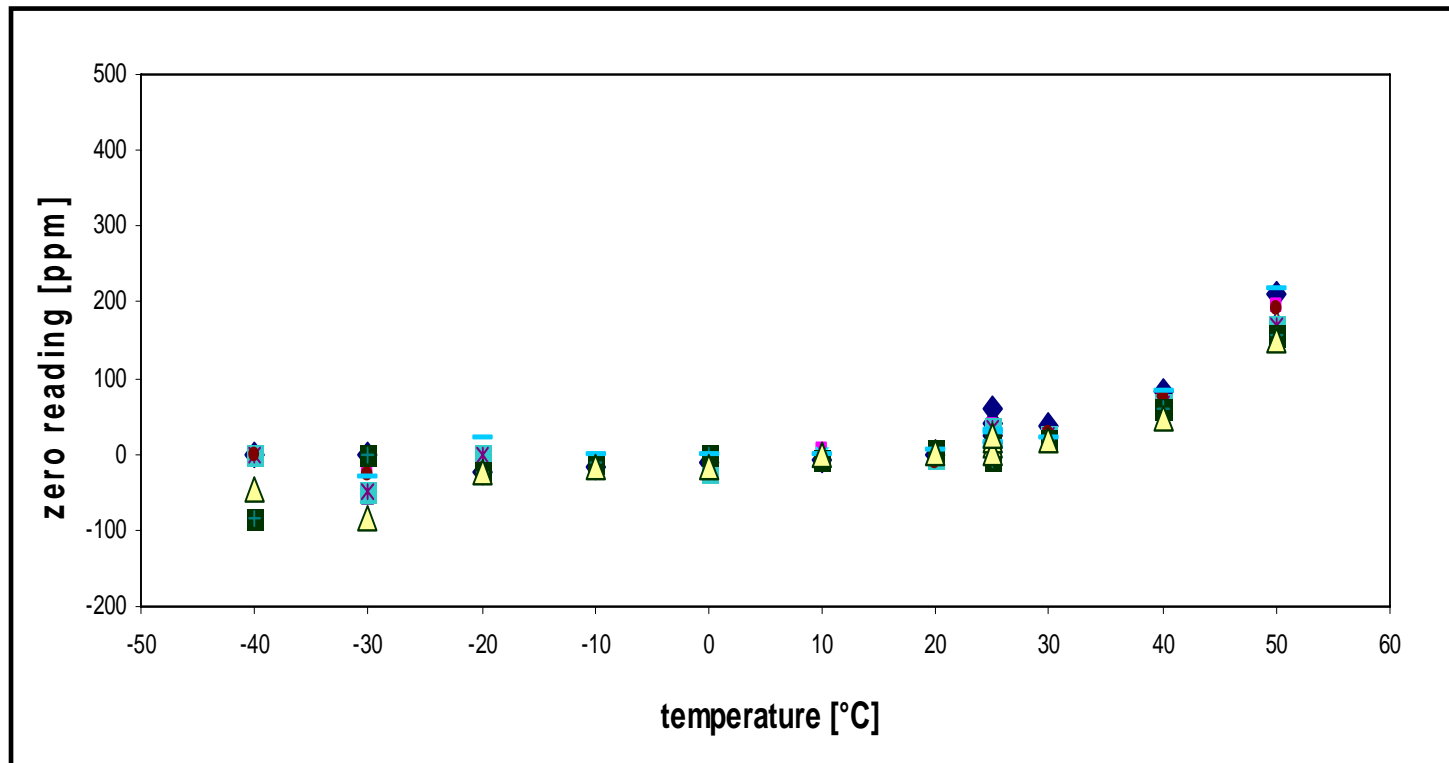
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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Ammonia	100 ppm	0
Arsine	0.2 ppm	0
Carbon Dioxide	1000 ppm	0
Carbon Monoxide	100 ppm	0
Chlorine	5 ppm	0
Ethylene	500 ppm	yes; n/d
Hydrogen Cyanide	20 ppm	0
Hydrogen Sulfide	20 ppm	44 ¹
Isopropanol	1100 ppm	yes; n/d
Methane	1 %	0
Nitric Oxide	100 ppm	0
Nitrogen Dioxide	10 ppm	0

1) With inboard filter; to remove TLV levels of interfering gases; continuous high level exposure may reduce the efficiency of the filter material.

Notes:

1. Interference factors may differ from sensor to sensor and with life time. It is not advisable to calibrate with interference gases.
2. This table does not claim to be complete. The sensor might also be sensitive to other gases.

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