

# Hydrogen Sulfide

## SensoriC H2S 3E 100 S



Rev. 09/2006

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### FEATURES

- Amperometric 3 electrode sensor cell
- Very stable zero reading
- Very selective
- Highly sensitive
- Long life time

### TYPICAL APPLICATIONS

- TLV-monitoring, leakage detection
- portable & fixed point applications
- Oil & Petrochemical industry, water treatment plants, Biogas applications

### PART NUMBER INFORMATION

MINI	0145-134-30009
SENSORIC CLASSIC	0145-134-30069
CTL4 series adaptation	0145-134-30049
CTL 7 series adaptation	0145-134-30079

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### TECHNICAL SPECIFICATIONS

Measuring Range	0–100 ppm
Sensitivity Range	750 nA/ppm $\pm$ 150 nA/ ppm
Zero Current at 20°C	< $\pm$ 200 nA
Resolution at 20°C	< 0.3 ppm
Bias Potential	0 mV
Linearity	< 5% full scale
Response Time at 20°C	
t50	< 15 s calculated from 2 min. exposure time
t90	< 30 s calculated from 2 min. exposure time
Long Term Sensitivity Drift	< 10% per 6 months
Operation Conditions	
Temperature Range	-40°C to +50°C
Humidity Range	15–90% r.H., non-condensing
Effect of Humidity	< 1 ppm at abrupt changes of humidity
Sensor Life Expectancy	> 48 months
Warranty	24 months

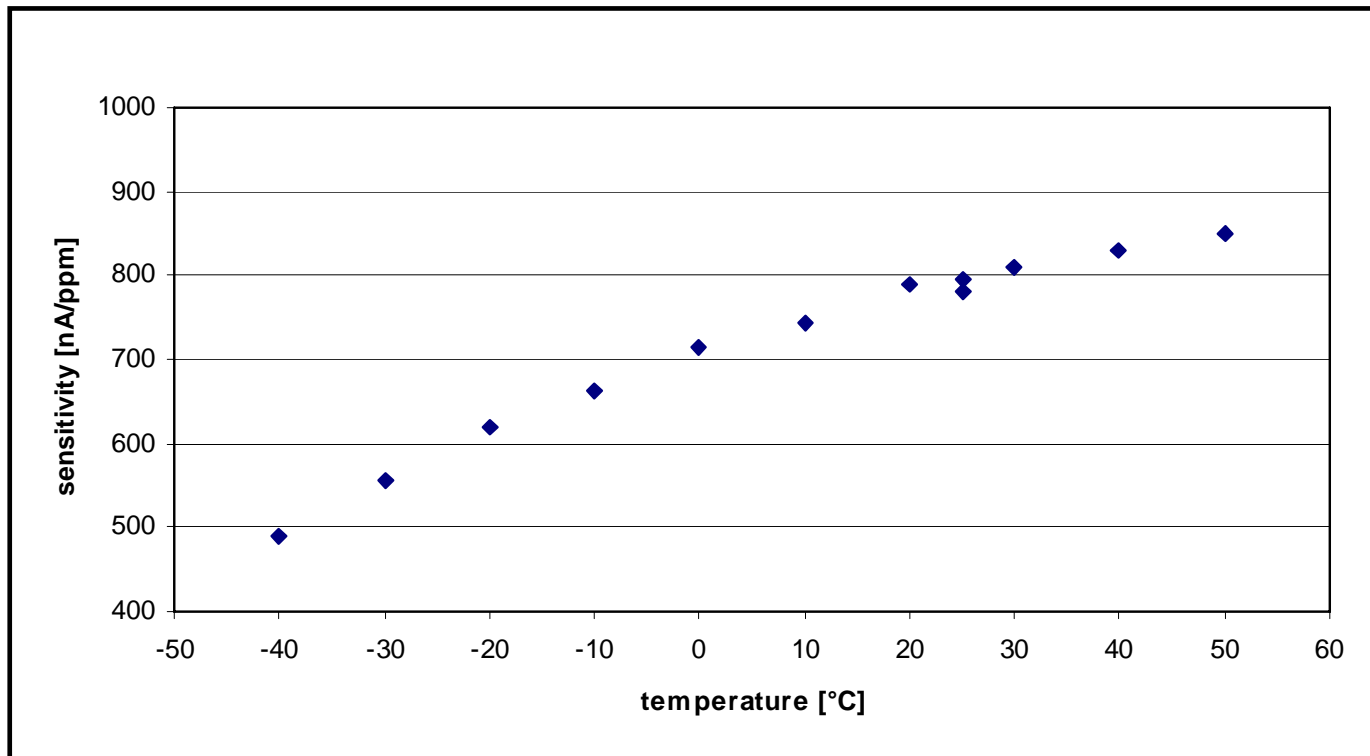
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### OUTPUT vs. TEMPERATURE:



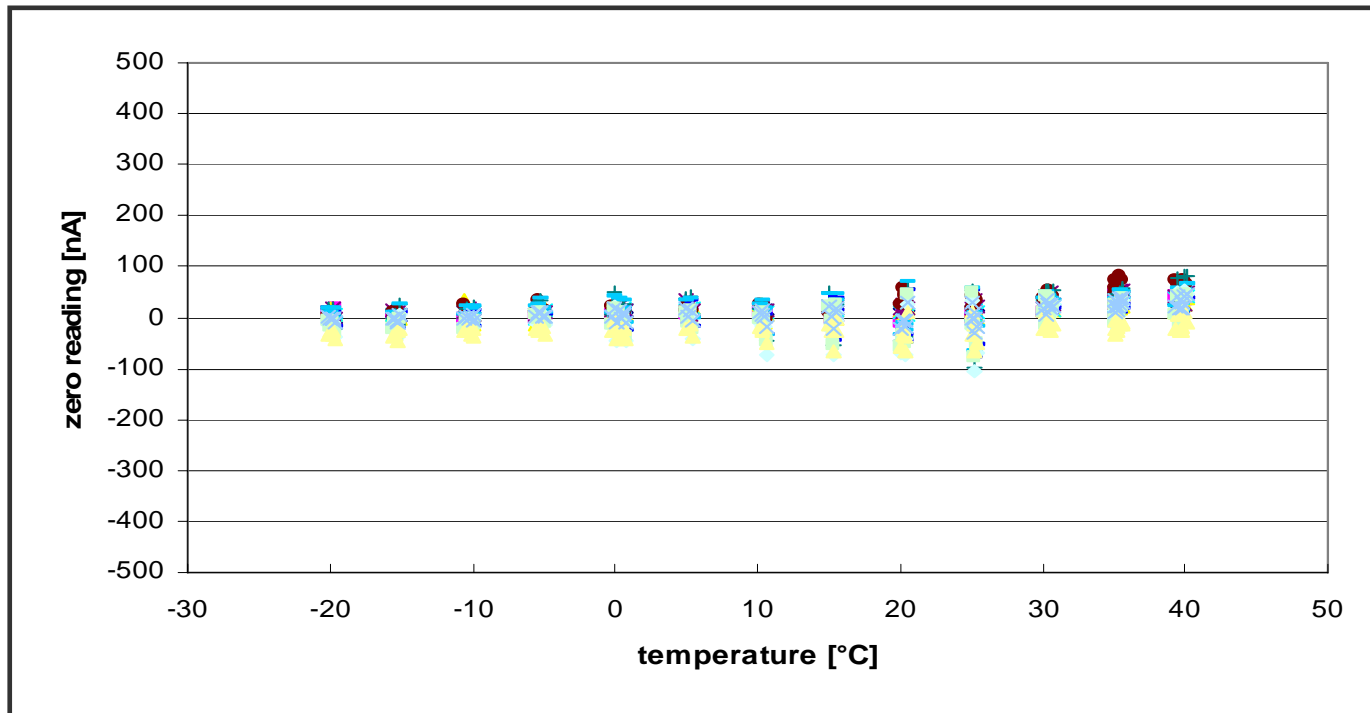
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### ZERO READING vs. TEMPERATURE:



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### CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Ammonia	100 ppm	0
Carbon Monoxide	100 ppm	< 1
Chlorine	20 ppm	< 5
Ethylene	500 ppm	0
Hydrogen	10000 ppm	< 10
Hydrogen Cyanide	15 ppm	< 0.2
Isopropanol	600 ppm	0
Methane	2.18 %	0
Methanol	1000 ppm	0
Nitrogen Dioxide	10 ppm	< 3
Sulfur Dioxide	10 ppm	< 0.5

#### 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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