Hydrogen Sulfide

Sensoric H2S 3E 100 S

Rev. 11/2011

Sensoric Sensors are designed and manufactured in
Justus-von-Liebig-Str. 22, D- 53121 Bonn, Germany
Tel: ++49 (0) 228 52 66 40 **Fax**: ++49 (0) 228 5266439

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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 ± 150 nA/ ppm
Zero Current at 20 °C	< ± 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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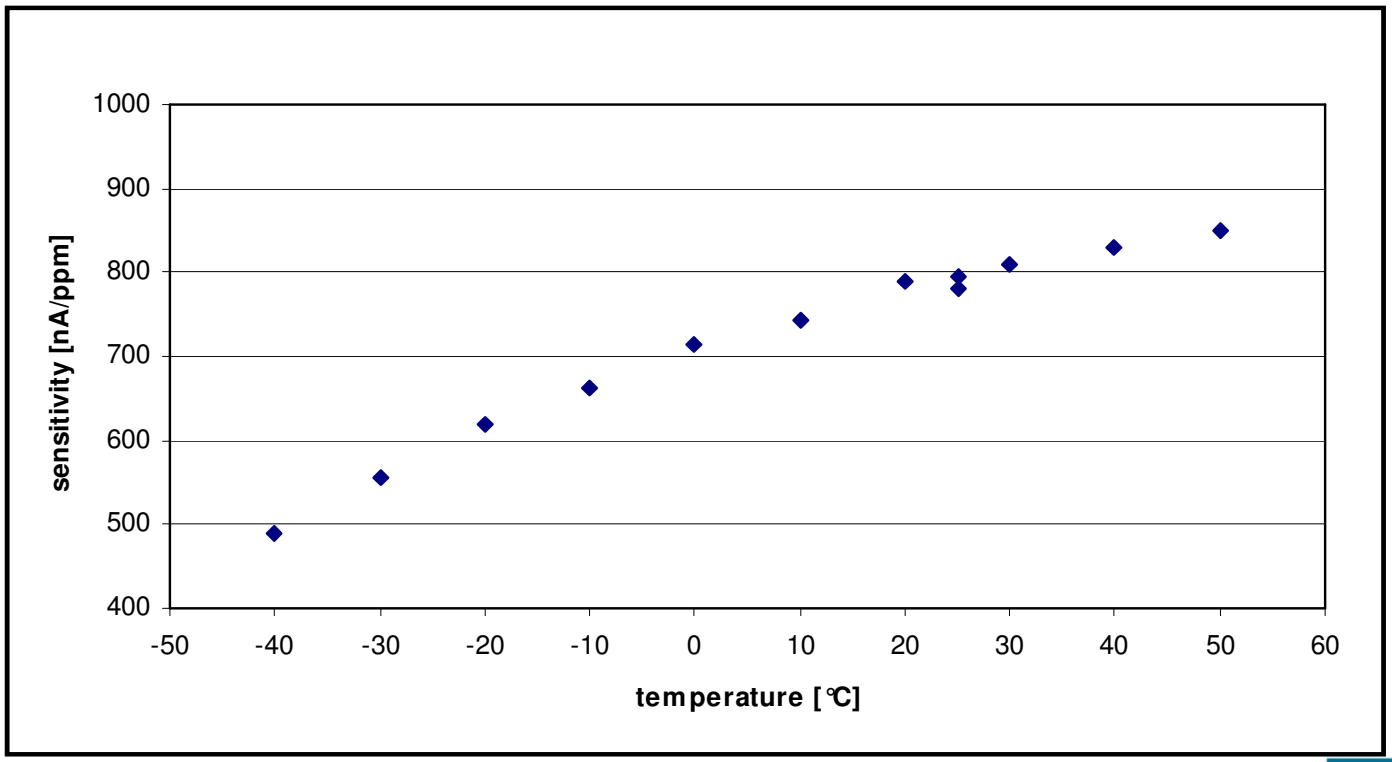
OUTPUT vs. TEMPERATURE:



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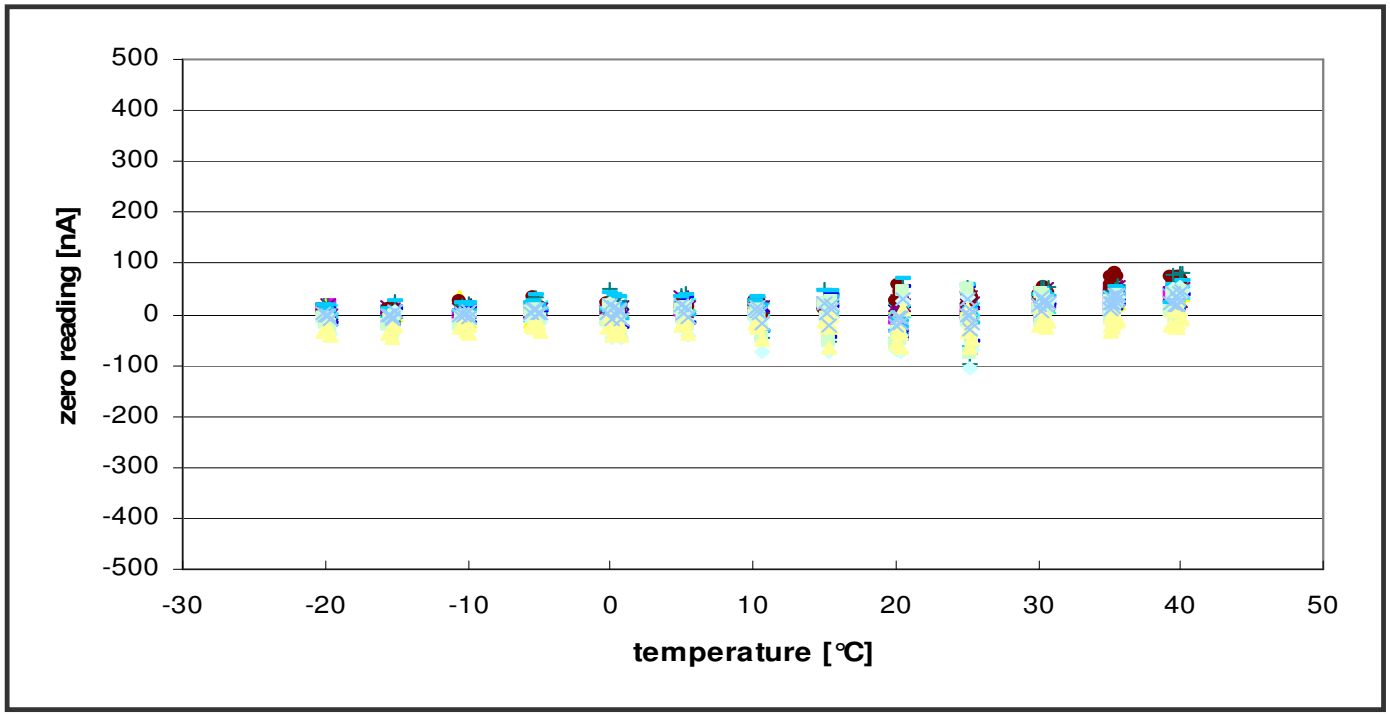
ZERO READING vs. TEMPERATURE:



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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 adviseable 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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Safety Note

This sensor is designed to be used in safety critical applications. To ensure that the sensor and/or instrument in which it is used, are operating properly, it is a requirement that the function of the device is confirmed by exposure to target gas (bump check) before each use of the sensor and/or instrument. Failure to carry out such tests may jeopardize the safety of people and property.

Attention

Use of the Sensoric range sensors requires complete understanding of the instructions. Before using Sensoric range sensors please carefully read 'Application Notes' which can be found at www.citytech.com under the heading '*Support' -> 'Application Notes' -> 'Sensoric'*

Product Safety Data Sheets (PSDS) can be obtained at www.citytech.com under the heading '*Support' -> 'Product Safety Datasheets'*

For further assistance on sensor selection and use, please contact a member of the Technical Sales team.

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