

## Hydrogen Sulfide

### Sensoric H2S 3E 100

# Product Data Sheet

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### FEATURES

Amperometric 3 electrode sensor cell  
Fast response  
High reliability  
High dynamic range

### TYPICAL APPLICATIONS

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

### PART NUMBER INFORMATION

MINI	0145-034-30009
SENSORIC CLASSIC	0145-034-30069
CTL4 series adaptation	0145-034-30049
CTL 7 series adaptation	0145-034-30079

Sensoric deems the data contained herein as factual, and the opinions expressed are those of qualified experts based on the results of tests conducted. The above data can not be used as a warranty provision or representation for which Sensoric assumes legal responsibility. The data are offered solely for consideration, investigation and verification. Any use of this information is subject to federal, state and local laws and regulations.

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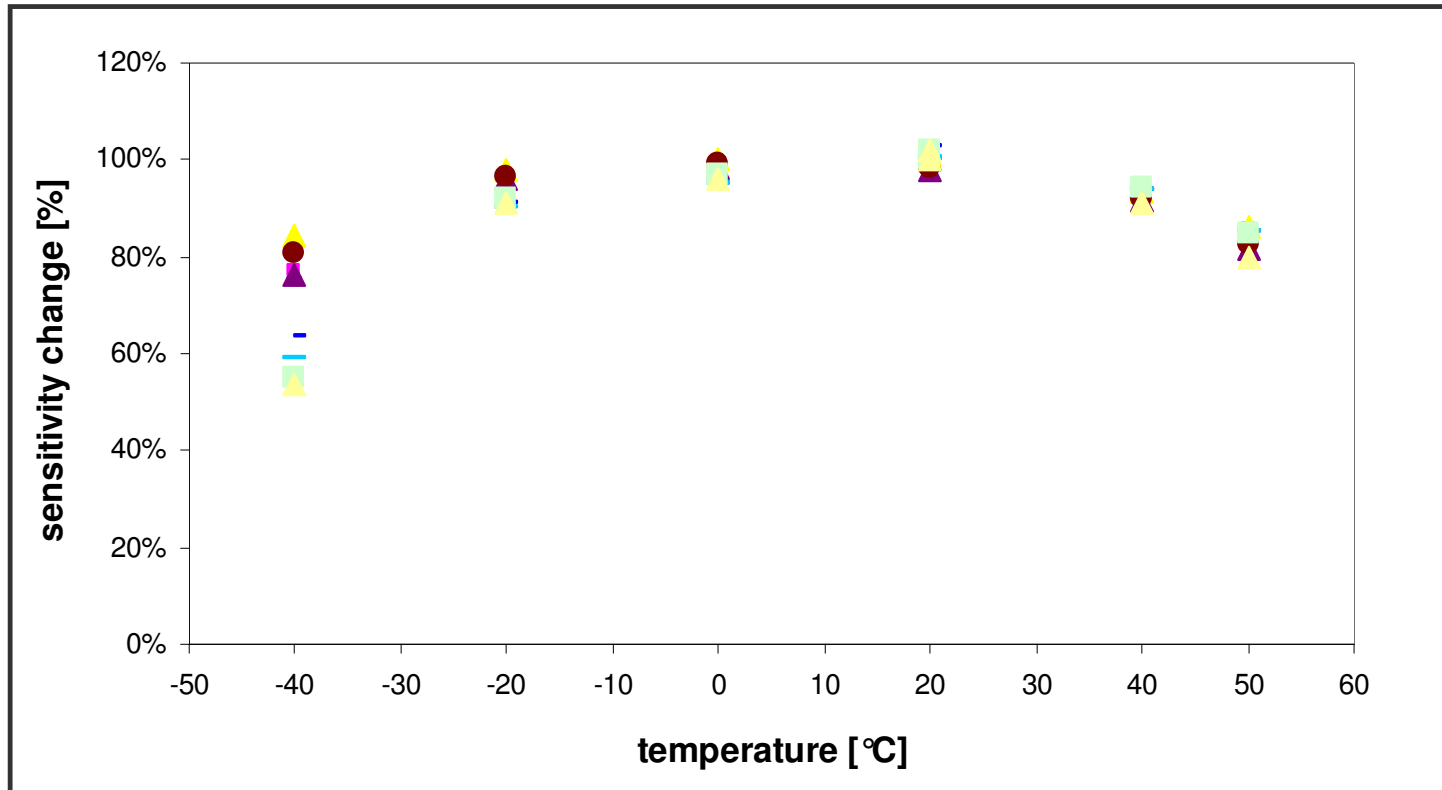
### TECHNICAL SPECIFICATIONS

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	
t <sub>50</sub>	< 15 s calculated from 2 min. exposure time
t <sub>90</sub>	< 30 s calculated from 2 min. exposure time
Long Term Sensitivity Drift	< 10% per 6 months
Operation Conditions	
Temperature Range	-40 °C to +40 °C
Humidity Range	15–90% r.H., non-condensing
Effect of Humidity	no effect
Sensor Life Expectancy	> 48 months
Warranty	24 months

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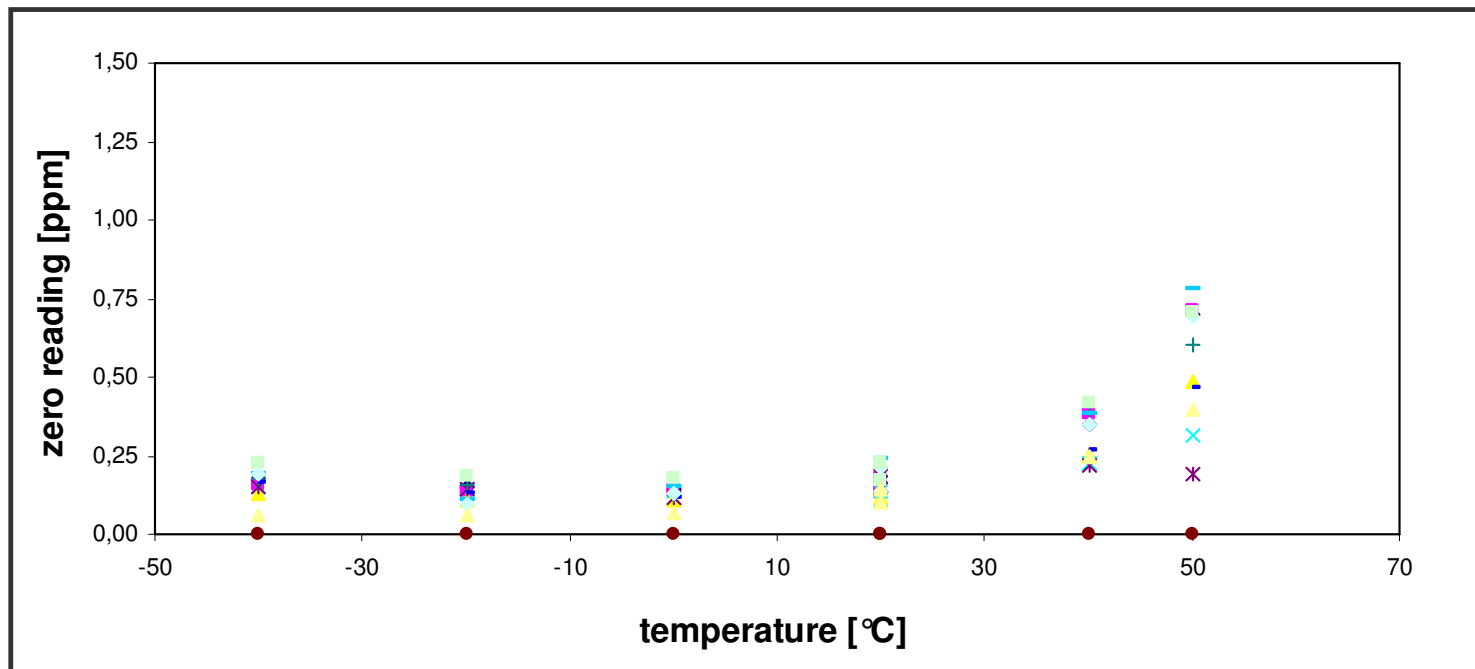
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### ZERO READING vs. TEMPERATURE:



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### CROSS SENSITIVITIES AT 20 °C

Gas	Concentration	Reading [ppm]
Ammonia	110 ppm	<0.1
Arsine	0.2 ppm	0
Carbon Dioxide	5000 ppm	0
Carbon Monoxide	100 ppm	5
Chlorine	1 ppm	0
Chlorine Dioxide	1 ppm	<-0.1
Ethylene	500 ppm	2
Hydrogen	3000 ppm	45
Hydrogen Cyanide	20 ppm	2
Isopropanol	200 ppm	20
Methane	1 %	0
Nitrogen Dioxide	10 ppm	0
Ozone	0.25 ppm	0
Sulfur Dioxide	20 ppm	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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## 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](http://www.citytech.com) under the heading 'Support' -> 'Application Notes' -> 'Sensoric'

Product Safety Data Sheets (PSDS) can be obtained at [www.citytech.com](http://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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