

**Hydrogen Sulfide**  
**Sensoric H2S 2E 30**



# Product Data Sheet

## Sensoric H2S 2E 30

### FEATURES

Amperometric 2 electrode sensor cell  
fast response  
high reliability  
good performance at – 40 °C  
no sensitivity to unsat. HC, H<sub>2</sub>, Alcohol

### TYPICAL APPLICATIONS

leakage detection  
portable & fixed point applications

### PART NUMBER INFORMATION

MINI	0139-021-30009
SENSORIC CLASSIC	0139-021-30069
CTL4 series adaptation	0139-021-30049
CTL 7 series adaptation	0139-021-30079

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### TECHNICAL SPECIFICATIONS

Measuring Range	0–30 ppm
Sensitivity Range	60 nA/ppm $\pm$ 30 nA/ ppm
Zero Current at 20 °C	< $\pm$ 10 nA
Resolution at 20 °C	< 0.2 ppm
Bias Potential	not required
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 +40 °C
Humidity Range	10–90% r.H., non–condensing
Effect of Humidity	no effect
Sensor Life Expectancy	> 18 months
Warranty	12 months

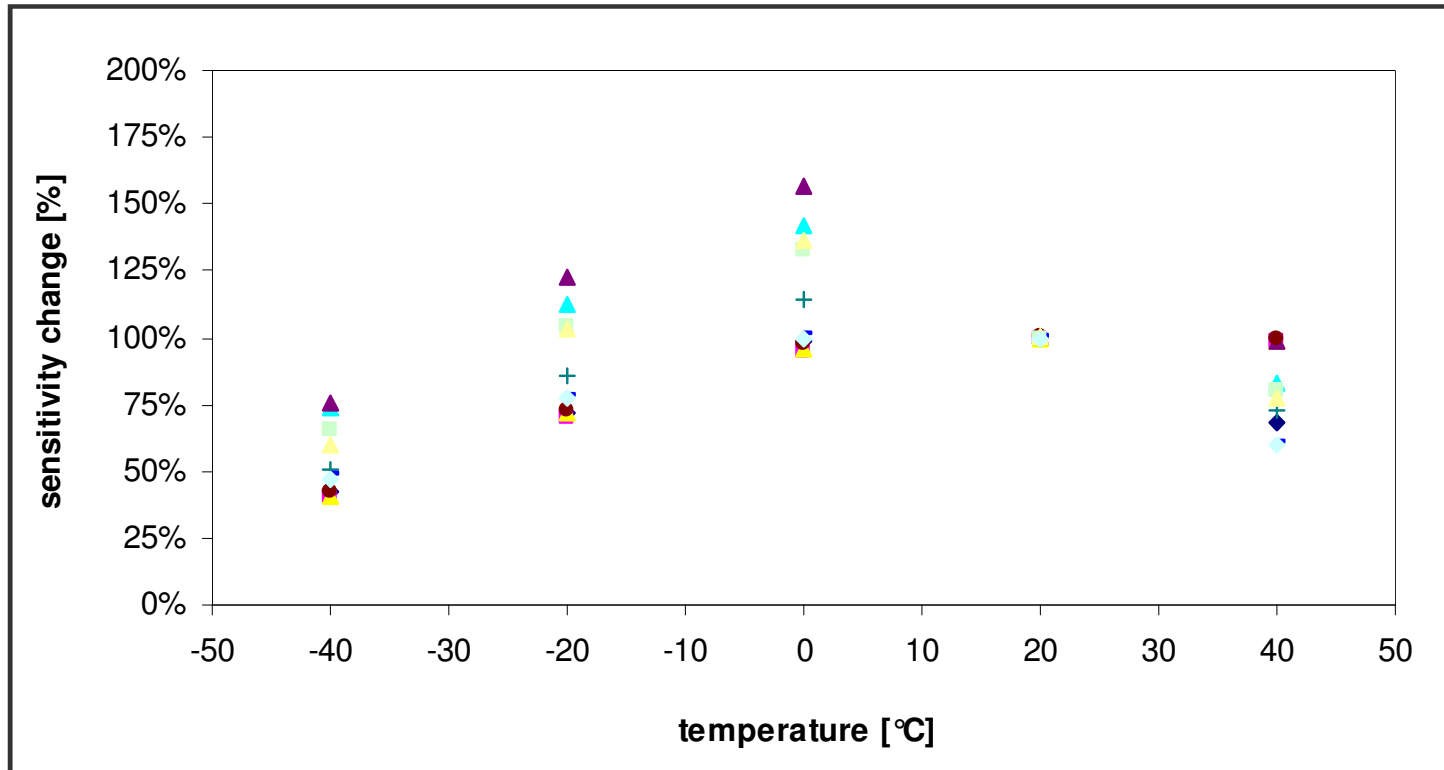
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### OUTPUT vs. TEMPERATURE:



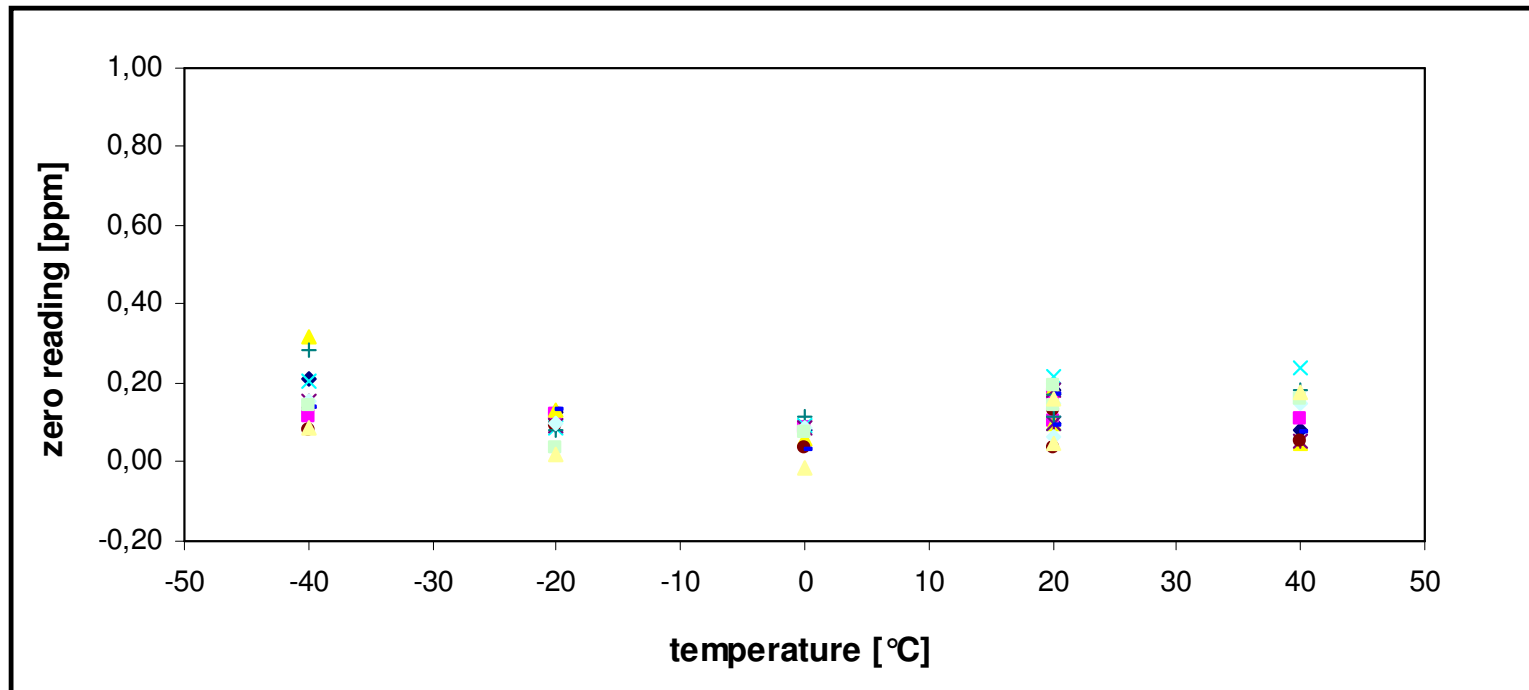
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### ZERO READING vs. TEMPERATURE:



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### CROSS SENSITIVITIES AT 20 °C

Gas	Concentration	Reading [ppm]
Ammonia	100 ppm	<0.1
Arsine	0.2 ppm	0.3
Carbon Dioxide	5000 ppm	0
Carbon Monoxide	100 ppm	0
Chlorine	1 ppm	<0.1
Chlorinated Hydrocarbons	<200 ppm	0
unsat. Hydrocarbons	% range	0
Hydrogen	10000 ppm	0
Hydrogen Cyanide	20 ppm	9
Methane	100 %	0
Nitric Oxide	100 ppm	0
Nitrogen Dioxide	10 ppm	- 5
Sulfur Dioxide	20 ppm	2

#### 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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