

# Hydrogen Sulfide

## Sensoric H2S 2E 50 S



# Product Data Sheet

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### FEATURES

Amperometric 2 electrode sensor cell  
fast response  
high reliability  
high selectivity

### TYPICAL APPLICATIONS

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

### PART NUMBER INFORMATION

|                         |                |
|-------------------------|----------------|
| MINI                    | 0141-124-30009 |
| SENSORIC CLASSIC        | 0141-124-30069 |
| CTL4 series adaptation  | 0141-124-30049 |
| CTL 7 series adaptation | 0141-124-30079 |

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### TECHNICAL SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| Measuring Range             | 0–50 ppm  |
| Sensitivity Range           | 380 nA/ppm $\pm$ 80 nA/ ppm   |
| Zero Current at 20°C        | < $\pm$ 200 nA  |
| Resolution at 20°C          | < 0.7 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           | -20°C to +40°C  |
| Humidity Range              | 15–90% r.H., non-condensing   |
| Effect of Humidity          | an abrupt change of r. H. will cause a short term drift in zero reading of <1 ppm |
| Sensor Life Expectancy      | > 48 months   |
| Warranty                    | 24 months   |

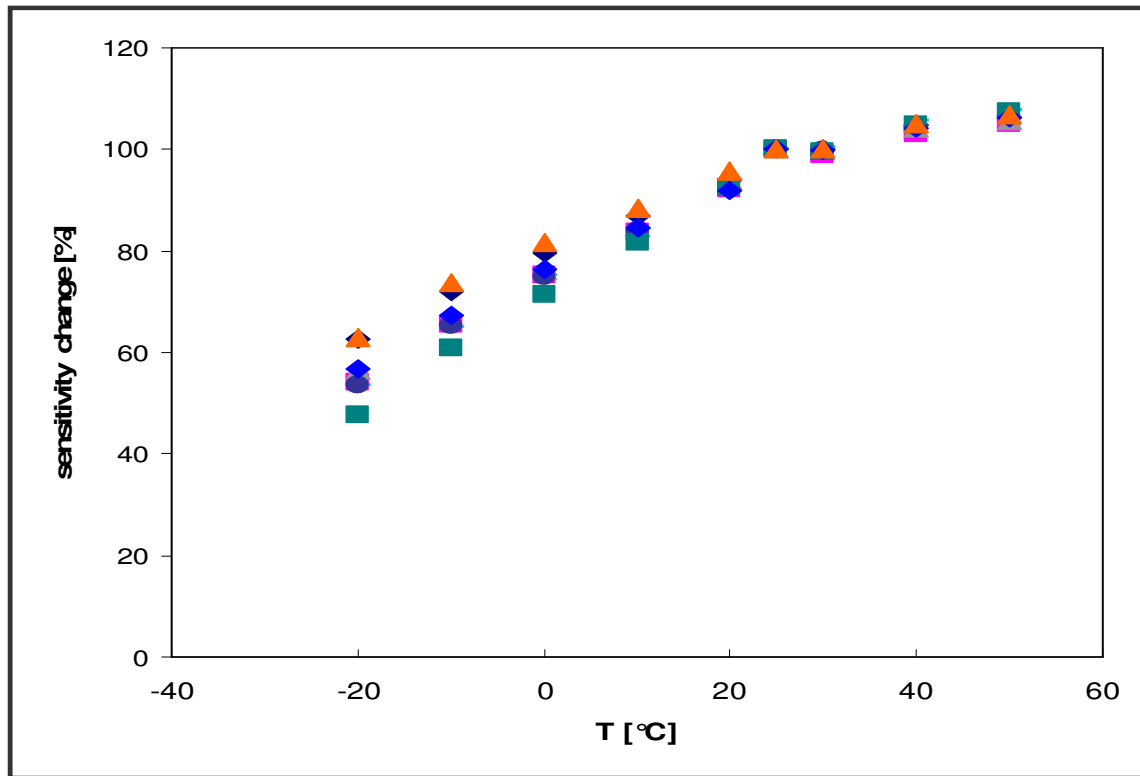
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### OUTPUT vs. TEMPERATURE:

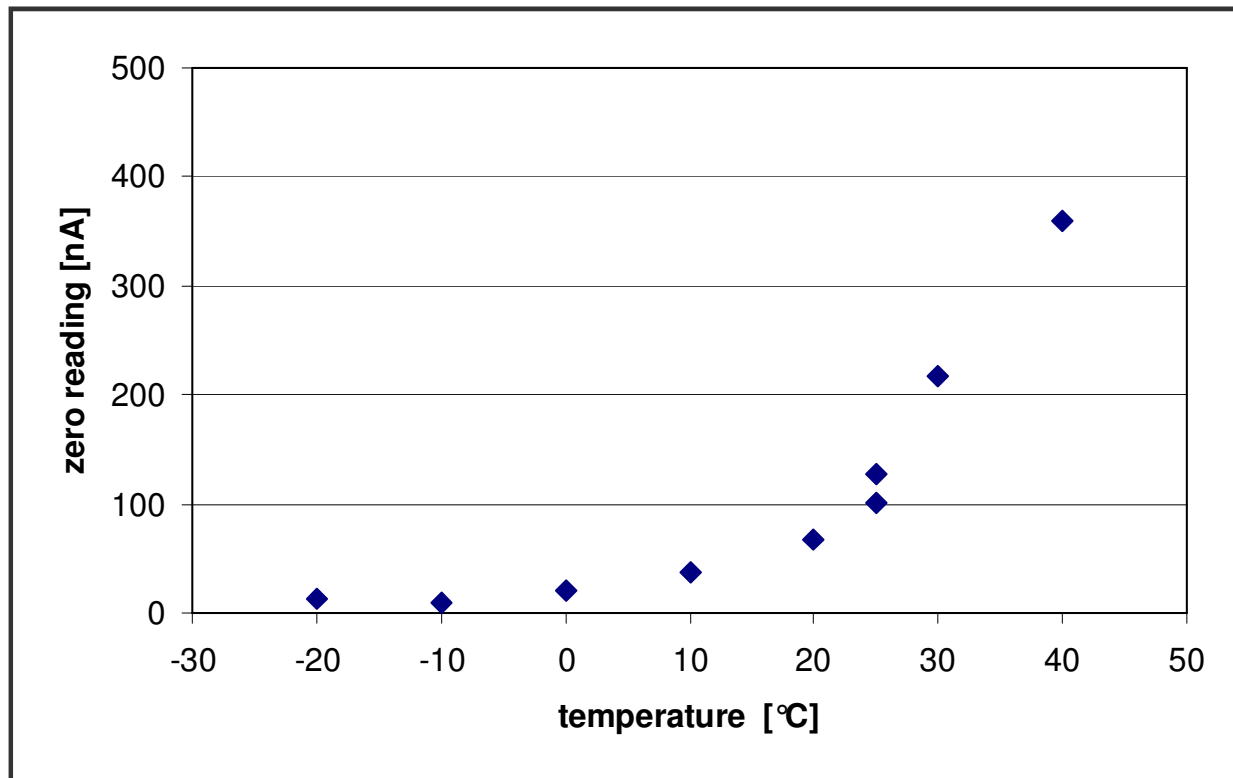


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### ZERO READING vs. TEMPERATURE:



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### CROSS SENSITIVITIES AT 20 °C

| Gas              | Concentration | Reading [ppm] |
|------------------|---------------|---------------|
| Carbon Monoxide  | 100 ppm       | <1            |
| Chlorine         | 1 ppm         | <±1           |
| Nitrogen Dioxide | 10 ppm        | - 2           |
| Sulfur Dioxide   | 20 ppm        | 3             |
| Hydrogen         | 10000 ppm     | <10           |
| Isopropanol      | 200 ppm       | 0             |
| Methane          | 2.2 %         | 0             |
| Nitric Oxide     | 100 ppm       | <±1           |

#### 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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