

Hydrogen Sulfide
Sensoric H2S 3E 100



Product Data Sheet

Sensoric H2S 3E 100

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 |

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TECHNICAL SPECIFICATIONS

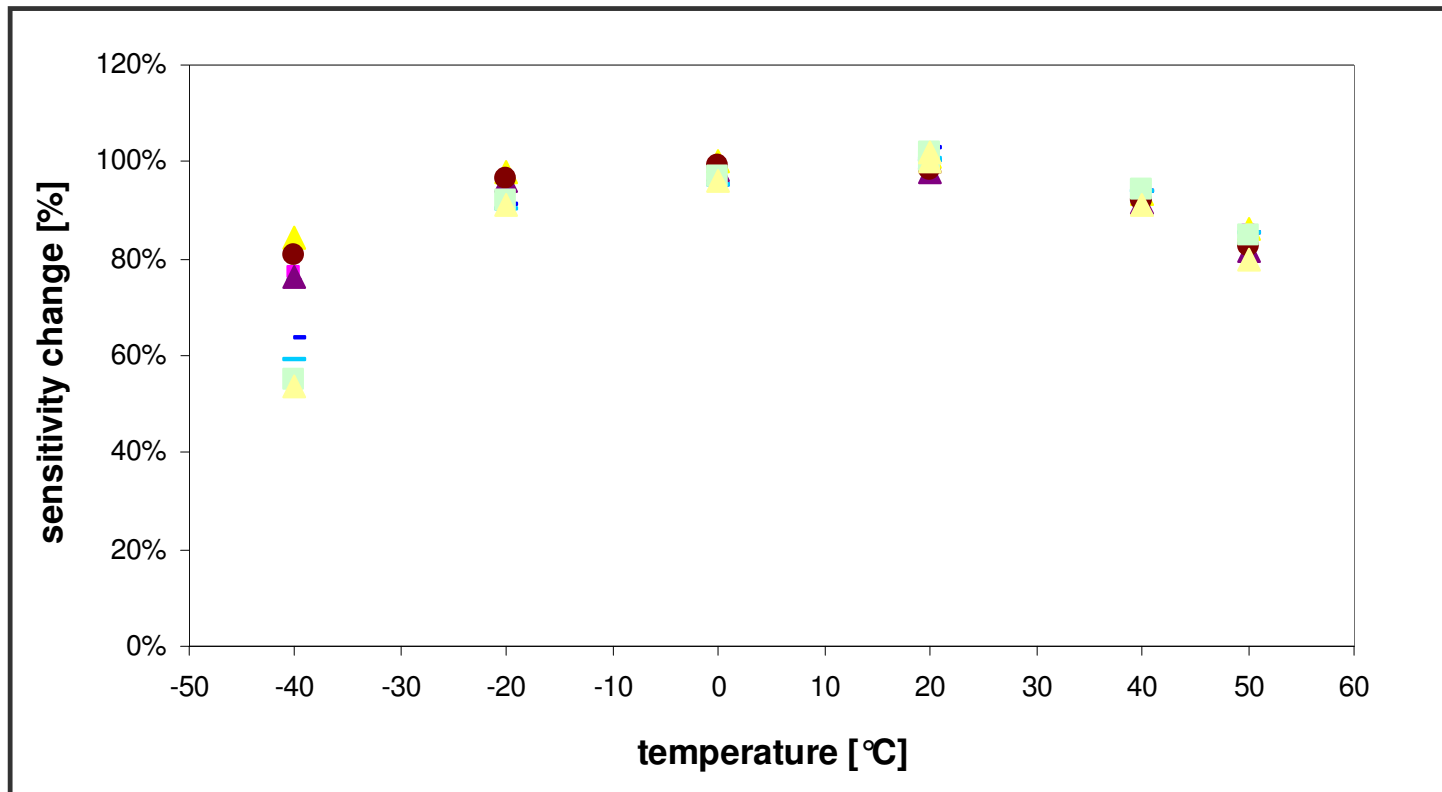
| | |
|-----------------------------|---|
| Measuring Range | 0–100 ppm |
| Sensitivity Range | 750 nA/ppm \pm 150 nA/ ppm |
| Zero Current at 20 °C | < \pm 200 nA |
| Resolution at 20 °C | < 0.3 ppm |
| Bias Potential | 0 mV |
| Linearity | < 5% full scale |
| Response Time at 20 °C | |
| t50 | < 15 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 +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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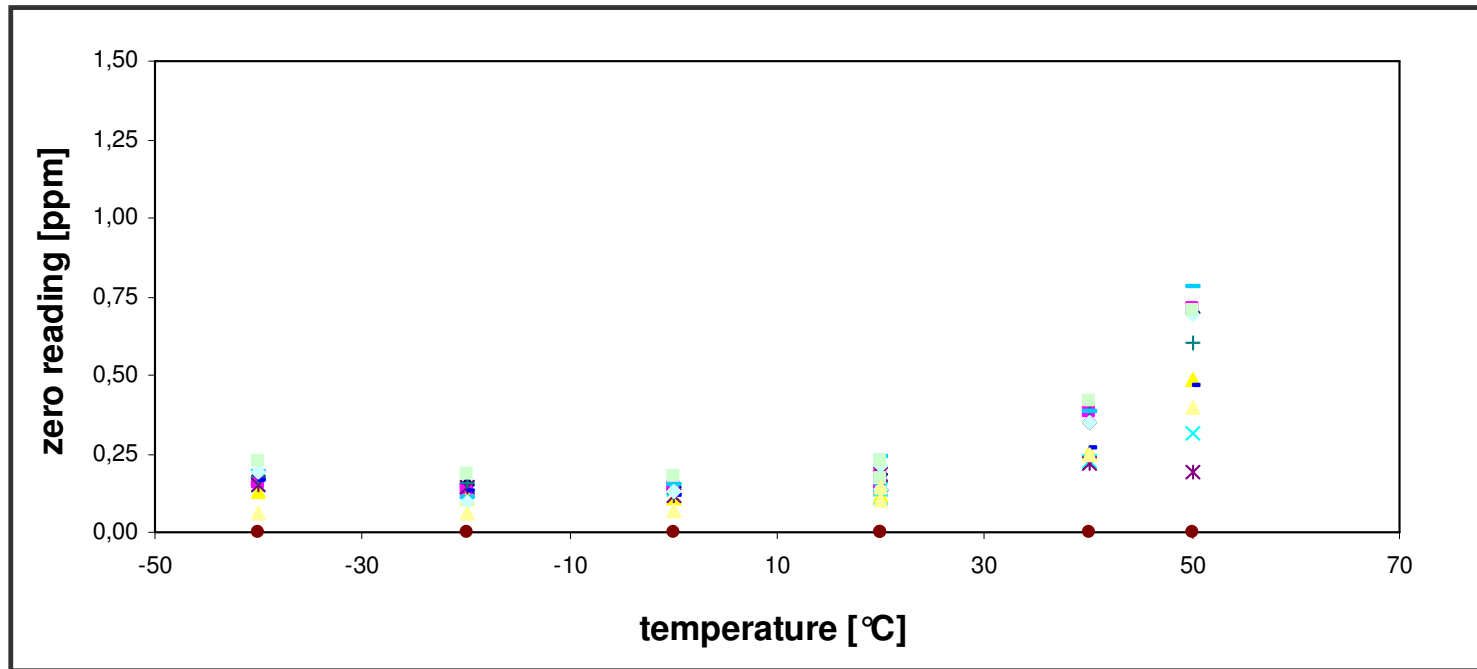
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ZERO READING vs. TEMPERATURE:



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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 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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