

Hydrogen Sulfide

SensoriC H2S 2E 50 S



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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 |

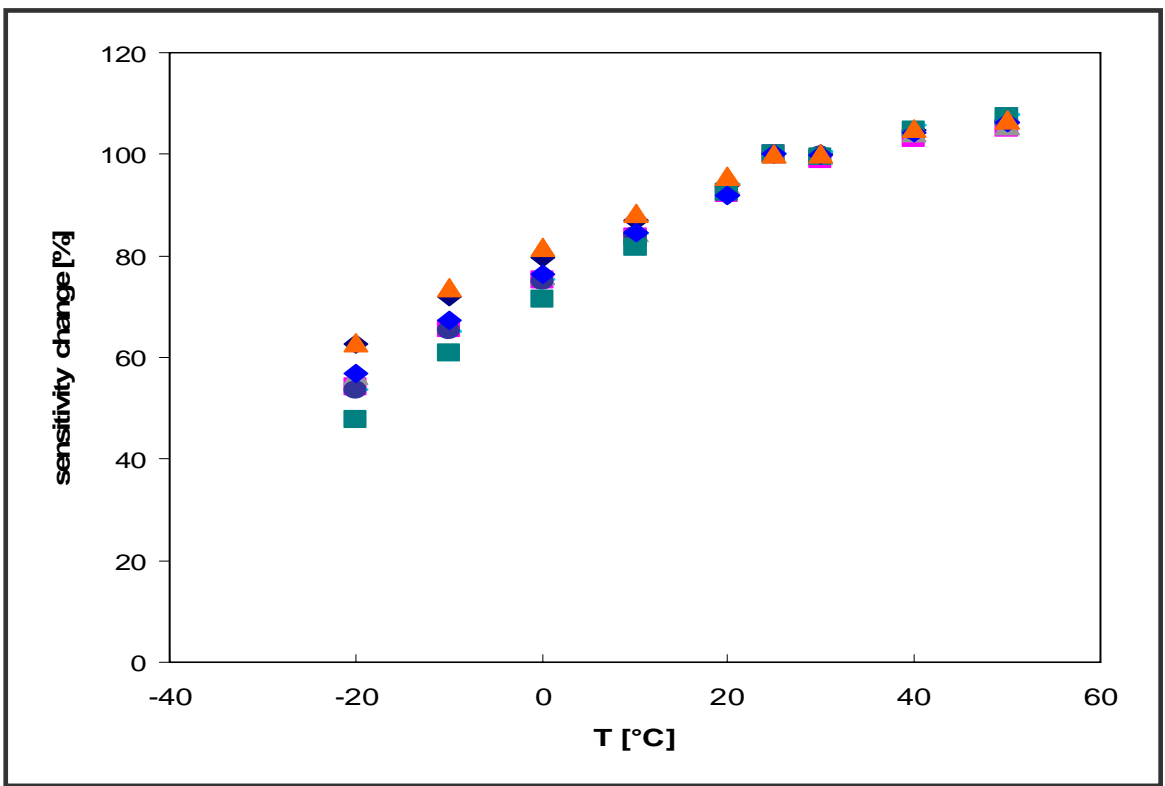
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OUTPUT vs. TEMPERATURE:



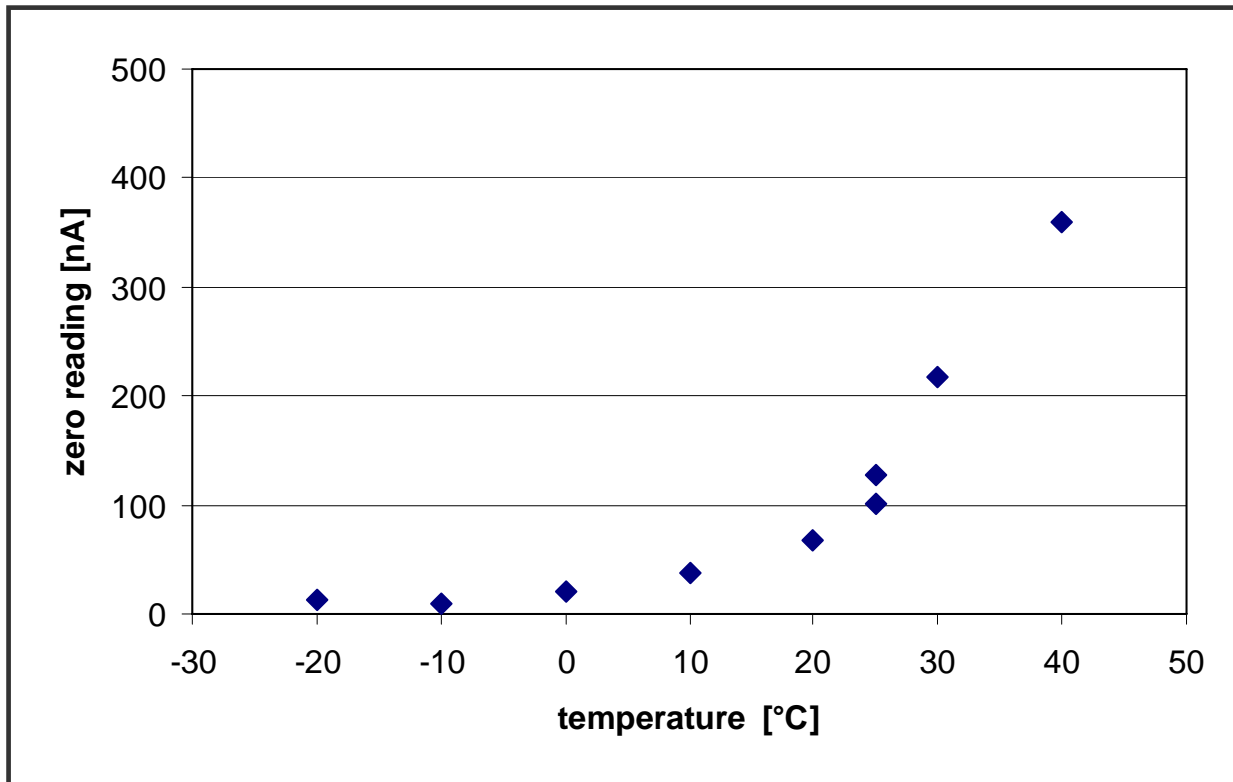
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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20°C

| Gas | Concentration | Reading [ppm] |
|------------------|---------------|---------------|
| Carbon Monoxide | 100 ppm | <2 |
| Chlorine | 1 ppm | -0.4 |
| 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 | <-0.1 |

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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