

Mercaptane

SensoriC TBM 2E 50



Rev. 09/2006

SensoriC Sensors are designed and manufactured in
Justus-von-Liebig-Str. 22, D- 53121 Bonn, Germany

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FEATURES

Amperometric 2 electrode sensor cell
High selectivity
High reliability
Good long term stability

TYPICAL APPLICATIONS

Monitoring of odorants in natural gas applications

PART NUMBER INFORMATION

SENSORIC CLASSIC	2441-021-11069
CTL 4 series adaptation	2441-021-14049
CTL 7 series adaptation	2441-021-17079

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TECHNICAL SPECIFICATIONS

Measuring Range	0–50 mg/m ³ / 0-14 ppm
Sensitivity Range	3-8 nA/ mg/m ³ / ; 15-40 nA/ mg/m ³ / Ethyl-SH (estimated)
Zero Current at 20°C	< ± 4 nA
Resolution at 20°C	< 0.5 mg/m ³ /
Bias Potential	not required
Linearity	< 5% full scale
Response Time at 20°C	
t50	< 40 s calculated from 4 min. exposure time
t90	< 90 s calculated from 4 min. exposure time
Long Term Sensitivity Drift	< 10% per 10 month
Operation Conditions	
Temperature Range	-10°C to +40°C
Humidity Range	10–95% r.H., non–condensing
Effect of Humidity	no effect
Sensor Life Expectancy	> 12 months
Warranty	9 months

Note: 1 ppm = 3,66 mg/m³

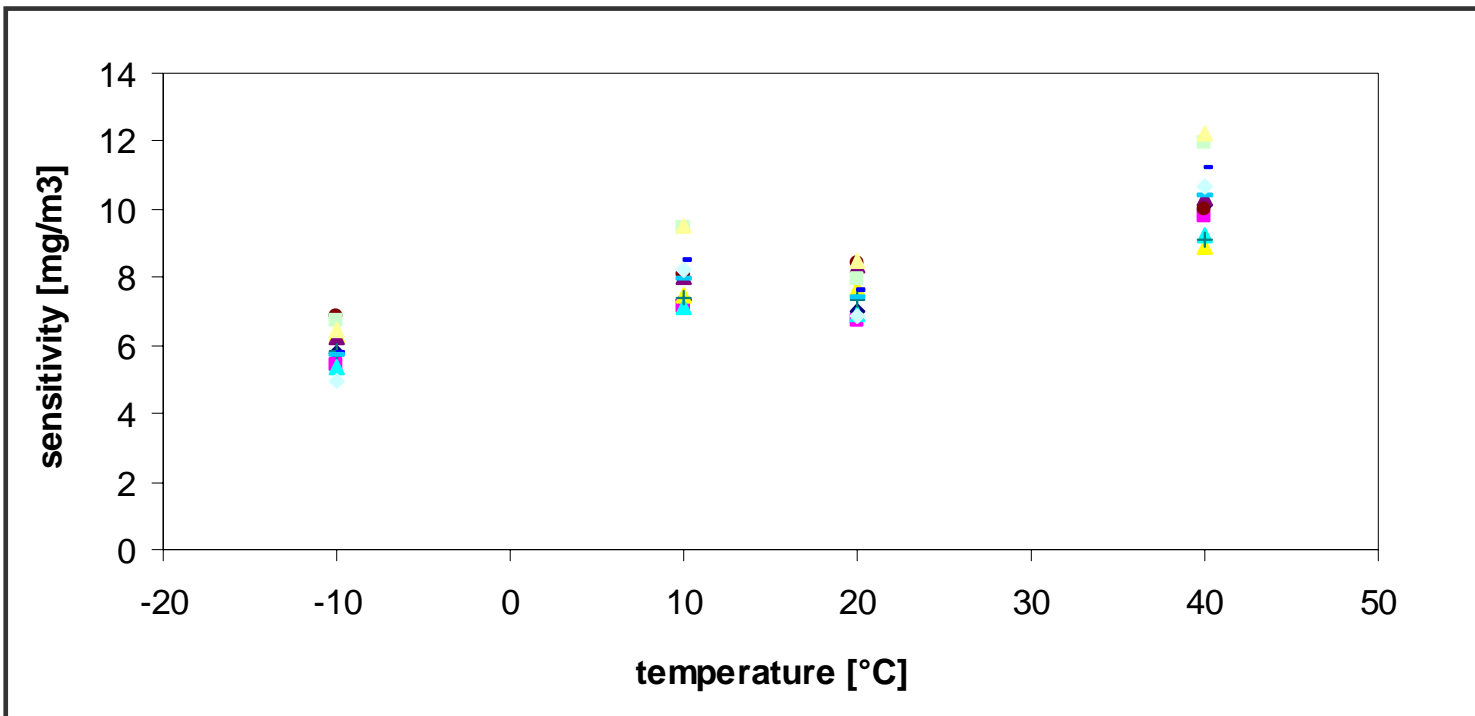
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OUTPUT vs. TEMPERATURE:



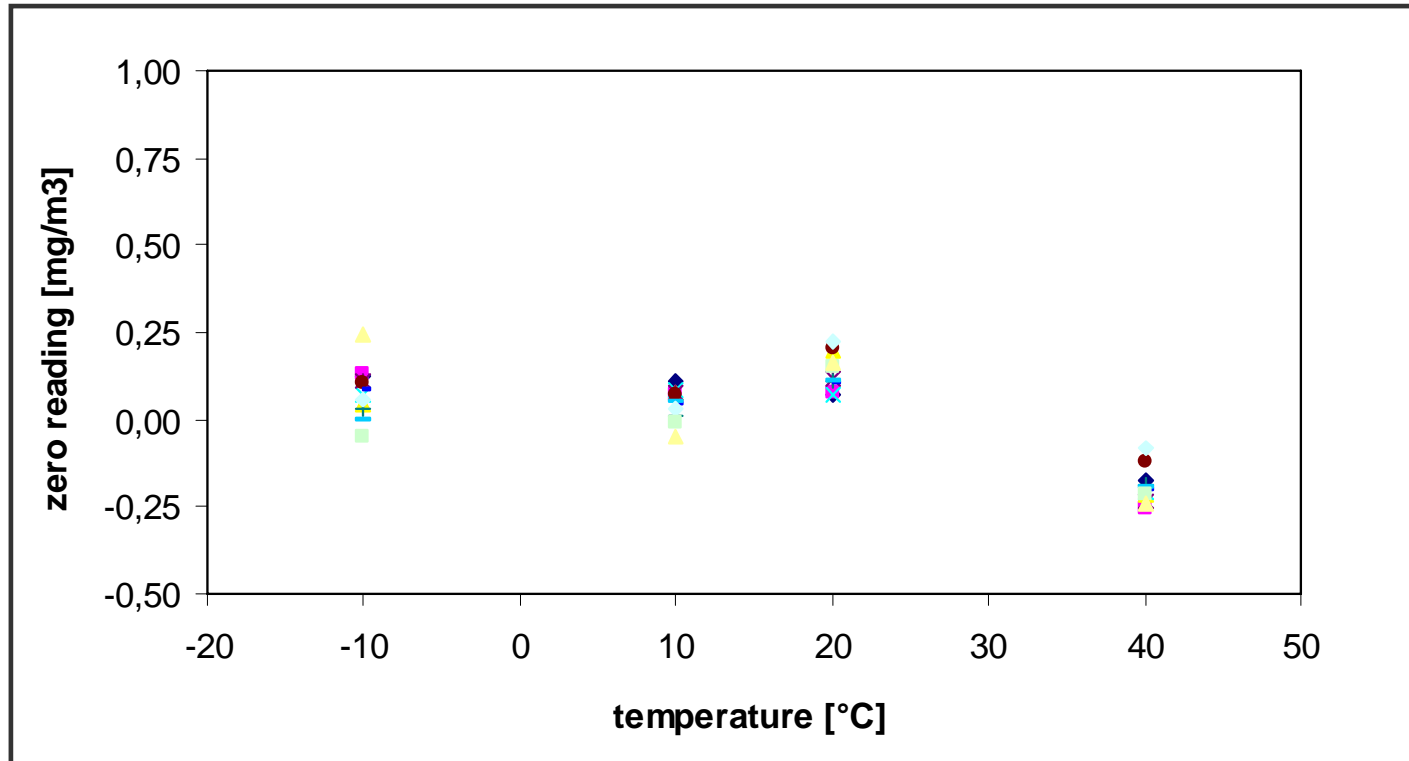
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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [mg/m3]
Alcohols	1000 ppm	0
Carbon Dioxide	1000 ppm	0
Carbon Monoxide	100 ppm	2
Hydrocarbons	% range	0
Hydrogen	1 %	0
Hydrogen Sulfide	20 ppm	0 ¹
Isopropanol	200 ppm	0
Methane	100 %	0
Nitrogen	100 %	0
Nitrogen Dioxide	10 ppm	-80
Sulfur Dioxide	20 ppm	0

1) With inboard filter; to remove TLV levels of interfering gases; continuous high level exposure may reduce the efficiency of the filter material.

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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