

Mercaptane

Sensoric TBM 2E 50



Product Data Sheet

Sensoric TBM 2E 50

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	2441-021-03069
CTL 4 series adaptation	2441-021-04049
CTL 7 series adaptation	2441-021-07079

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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

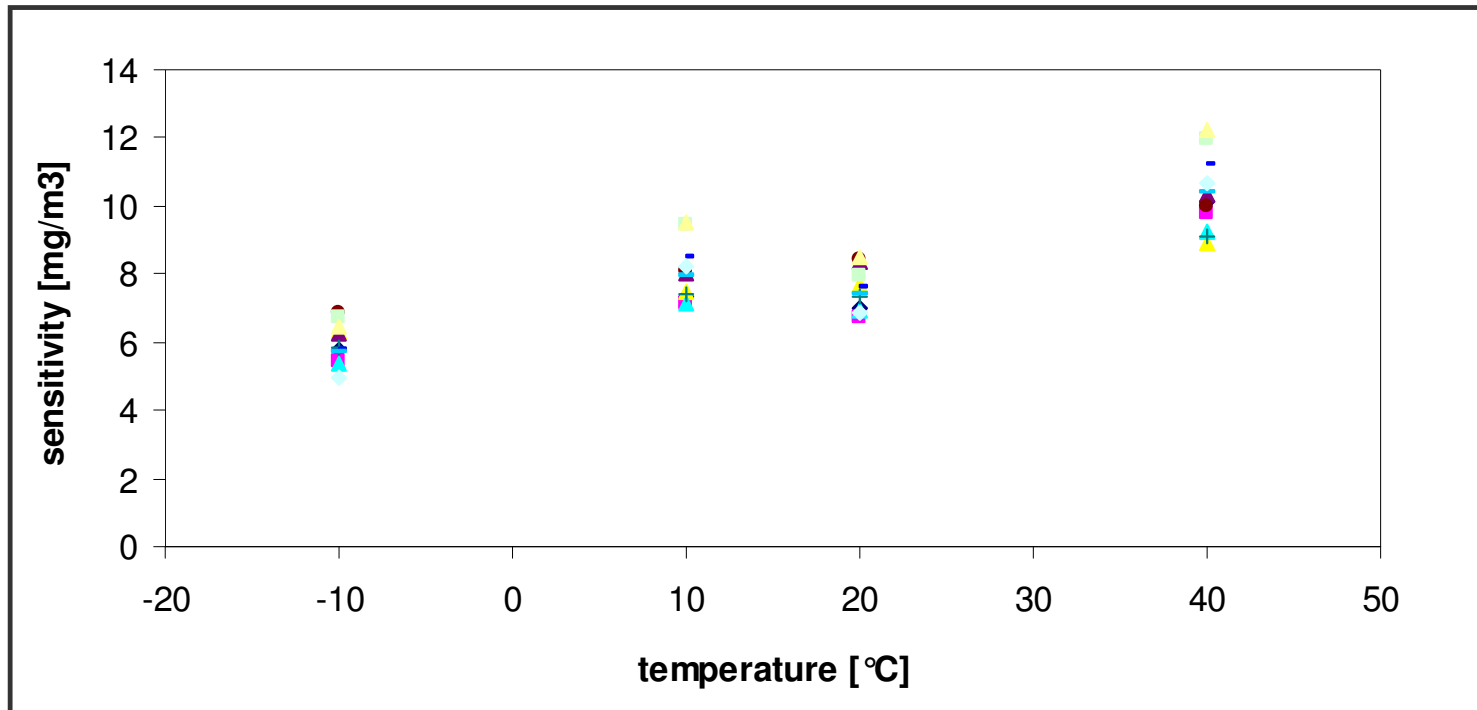
Note: 1 ppm = 3,66 mg/m³

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OUTPUT vs. TEMPERATURE:



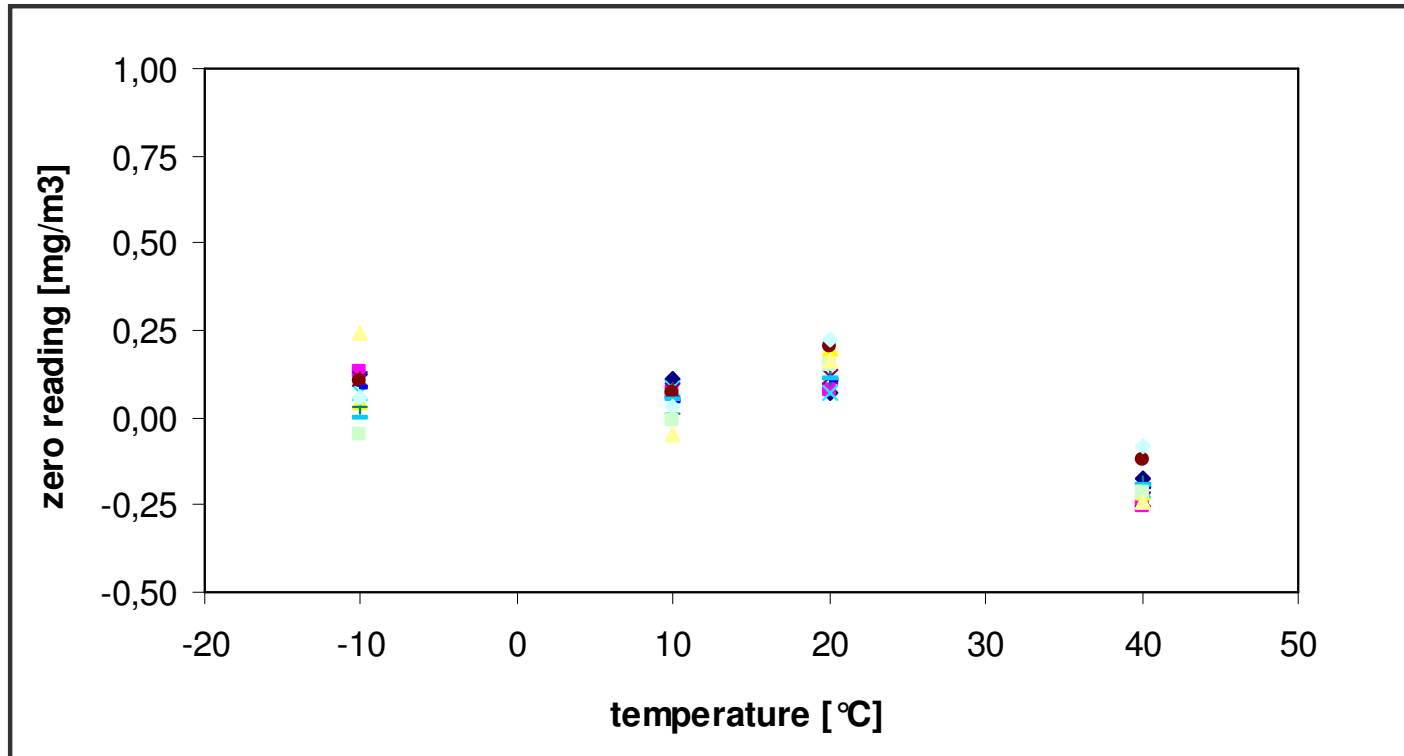
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ZERO READING vs. TEMPERATURE:



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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	290 ppm	0
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⁾

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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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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