

Chlorine

Sensoric Cl2 3E 10



Product Data Sheet

Sensoric CI2 3E 10

FEATURES

Amperometric 3 electrode sensor cell
Low susceptibility to abrupt changes of humidity
Low interference to SO₂
High poison resistance

TYPICAL APPLICATIONS

Portable & fixed point applications
TLV monitoring
Water treatment plants, swimming pools, chemical industry

PART NUMBER INFORMATION

MINI	0436-032-30009
SENSORIC CLASSIC	0436-032-30069
CTL 4 series adaptation	0436-032-30049
CTL 7 series adaptation	0436-032-30079

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TECHNICAL SPECIFICATIONS

Measuring Range		0-10 ppm; typically: 0–5 ppm
Sensitivity Range		450 nA/ppm \pm 200 nA/ppm (negative current)
Zero Current at 20°C		< \pm 20 nA
Resolution at 20°C		< 0.05 ppm
Bias Potential	0 mV	
Linearity		< 5% full scale
Response Time at 20°C		
t50		< 30 s calculated from 2 min. exposure time
t90		< 60 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		no effect on zero current
Sensor Life Expectancy		> 24 months in air
Warranty		12 months

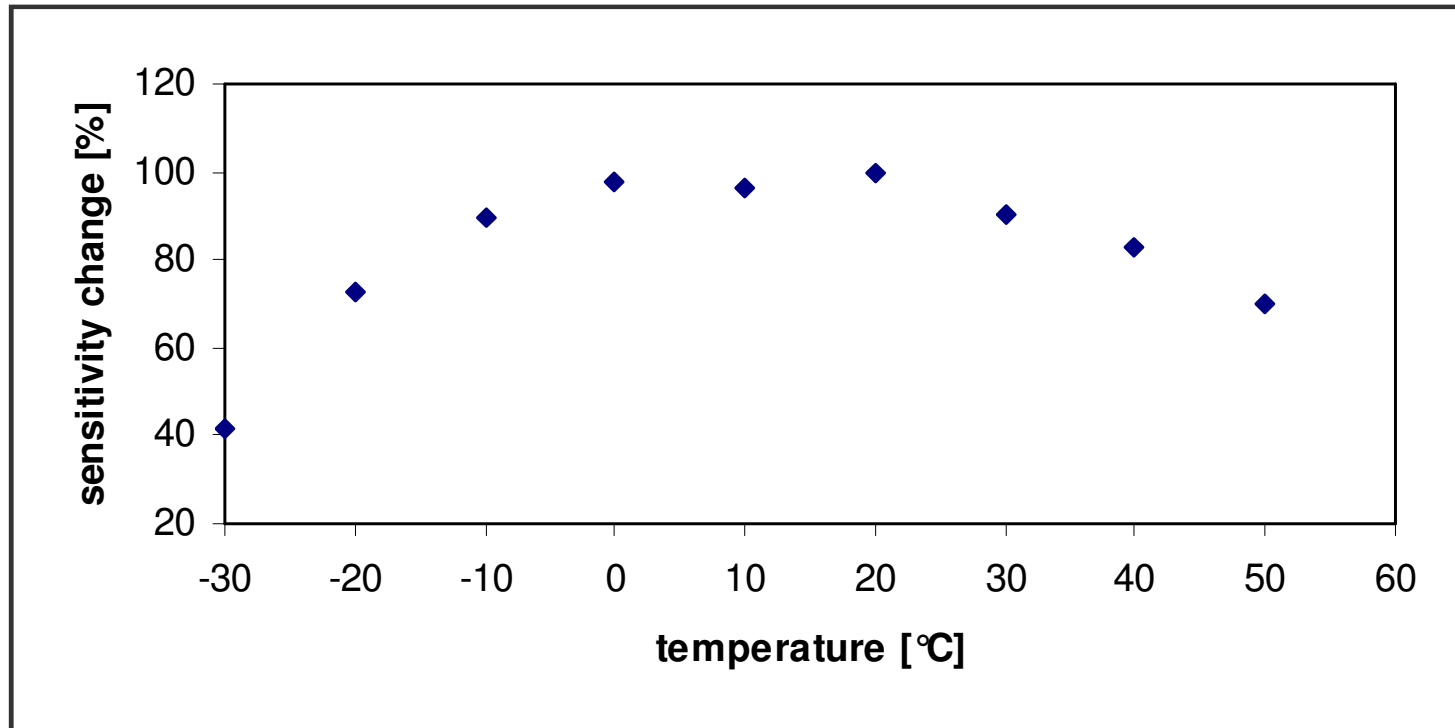
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OUTPUT vs. TEMPERATURE:



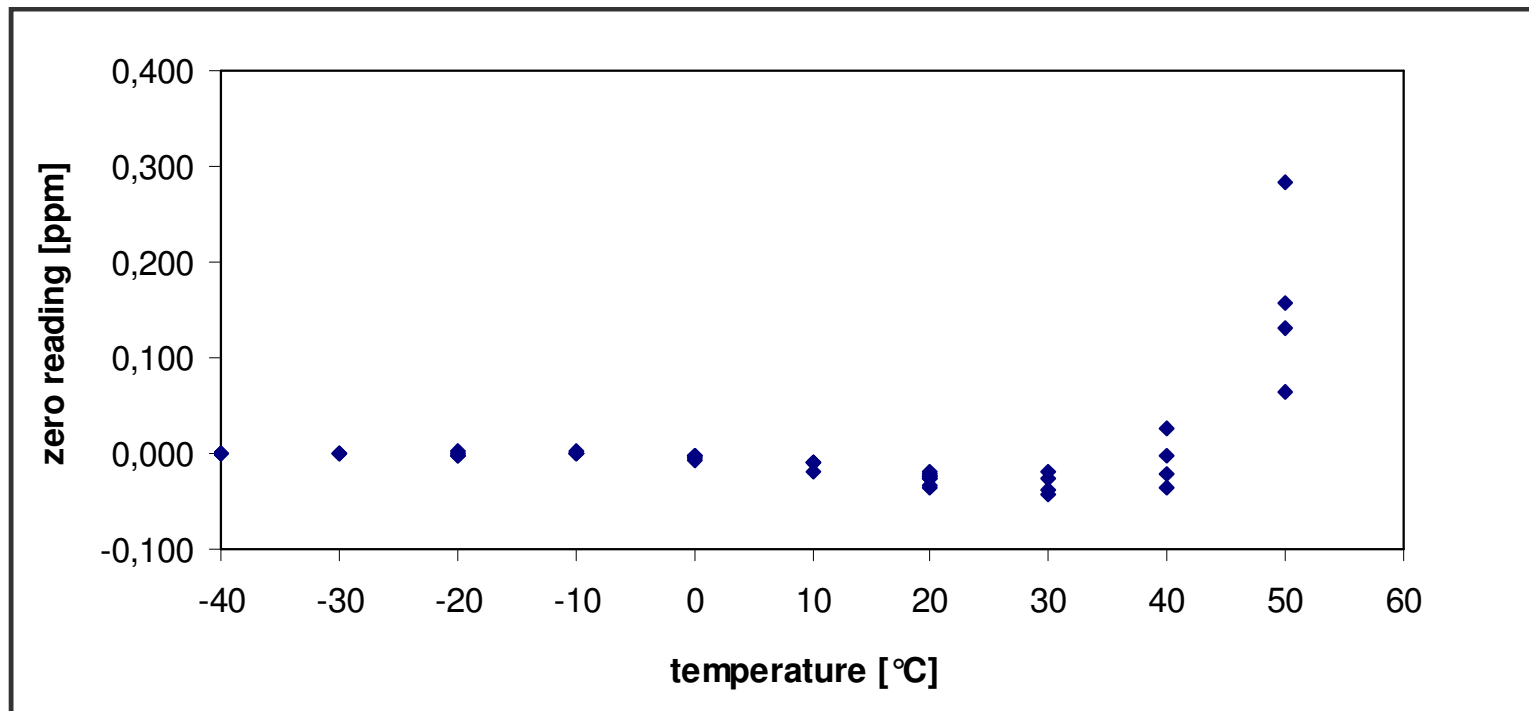
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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Ammonia	100 ppm	0
Bromine	1 ppm	1.0 (theoretical)
Carbon Dioxide	1 %	0
Carbon Monoxide	100 ppm	0
Chlorine Dioxide	2.4 ppm	0.55
Hydrogen	3000 ppm	0
Hydrogen Sulfide	20 ppm	0.1
Nitrogen Dioxide	10 ppm	4.5
Ozone	0.25 ppm	0.11
Sulfur Dioxide	20 ppm	0

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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