

# Carbon Monoxide

## SensoriC CO 3E 500 S



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### FEATURES

- Amperometric 3 electrode sensor cell
- Low susceptibility to hydrogen
- High reliability
- Fast response
- 0 voltage biased operation

### TYPICAL APPLICATIONS

- Portable & fixed point applications
- Where hydrogen can be present in the background

### PART NUMBER INFORMATION

MINI	0250-134-30009
SENSORIC CLASSIC	0250-134-30069
CTL 4 series adaptation	0250-134-30049
CTL 7 series adaptation	0250-134-30079

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### TECHNICAL SPECIFICATIONS

Measuring Range	0–500 ppm
Sensitivity Range	70 nA/ppm $\pm$ 20 nA/ ppm
Zero Current at 20°C	< $\pm$ 200 nA
Resolution at 20°C	< 3 ppm
Bias Potential	0 mV
Linearity	< 5% full scale
Response Time at 20°C	
t50	< 30 s calculated from 2 min. exposure time <sup>1</sup>
t90	< 60 s calculated from 2 min. exposure time <sup>1</sup>
Long Term Sensitivity Drift	< 2% per month
Operation Conditions	
Temperature Range	-20°C to +50°C
Humidity Range	15–90% r.H., non–condensing
Effect of Humidity	no effects
Sensor Life Expectancy	> 24 months in air
Warranty	12 months

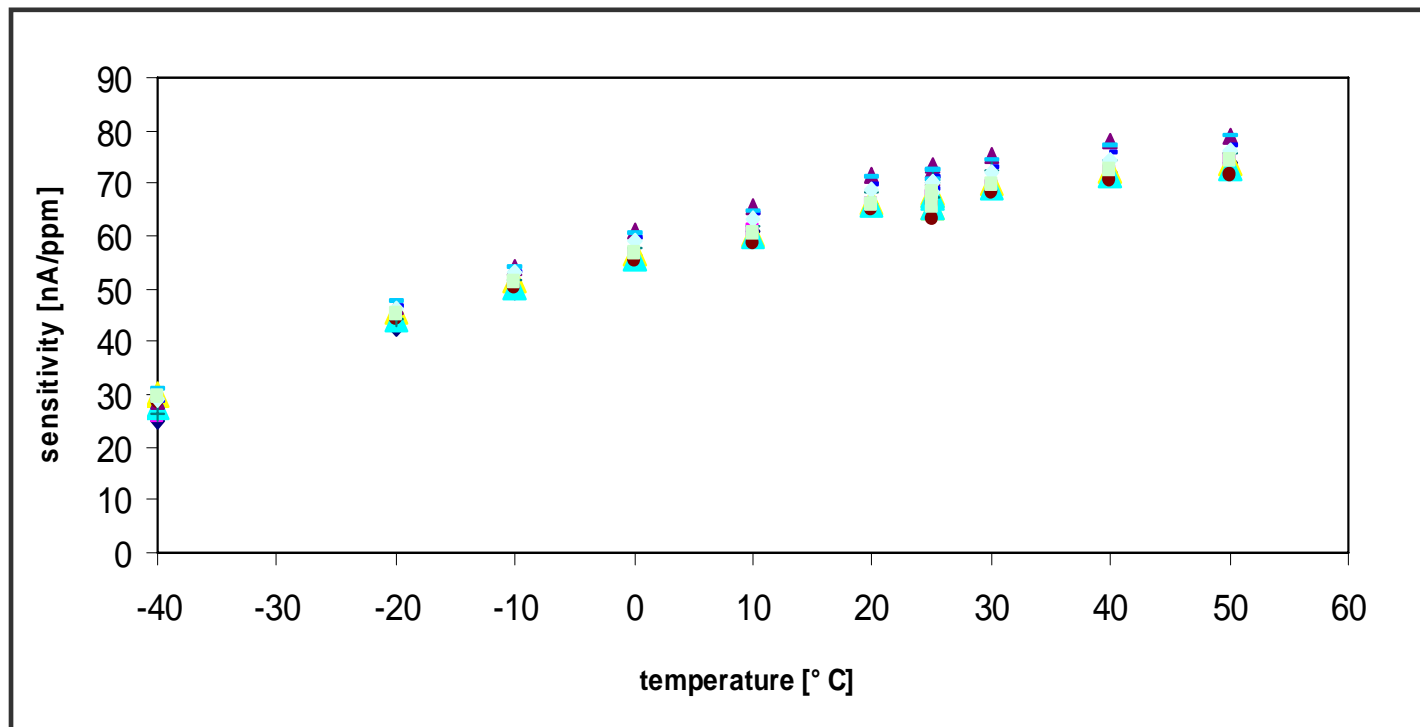
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### Temperature dependence – CO reading:

Calibration with 100 ppm CO / air at each listed temperature



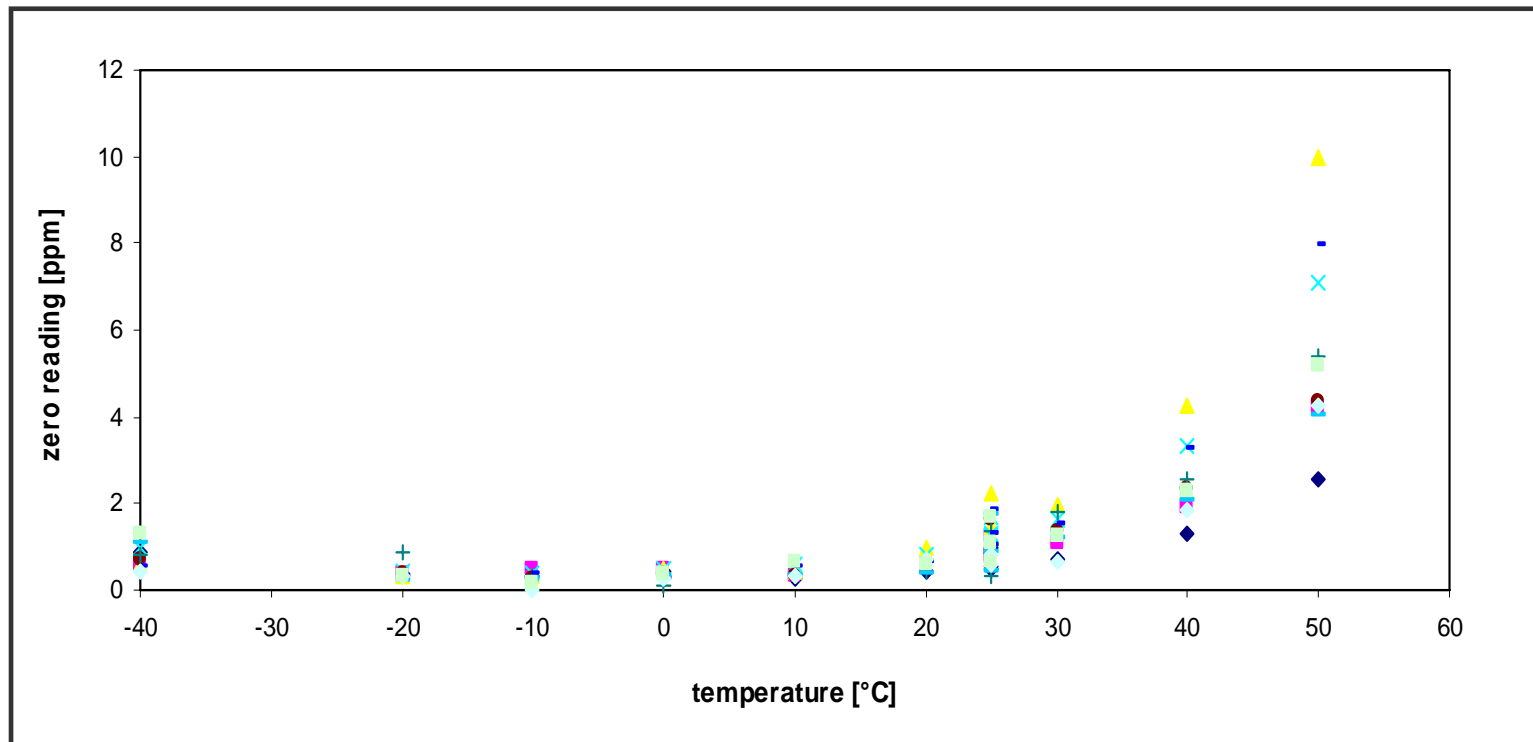
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### Temperature dependence – zero reading:



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### CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Alcohols (i.e. IPA)	600 ppm	0 <sup>1</sup>
Gasoline Vapour	% range	0 <sup>1</sup>
Hydrogen	3000 ppm	<300
Hydrogen Chloride	10 ppm	7
Hydrogen Sulfide	20 ppm	<2 <sup>1</sup>
Nitric Oxide	20 ppm	20
Nitrogen Dioxide	10 ppm	0
Sulfur Dioxide	2 ppm	0

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