

# Carbon Monoxide

## SensoriC CO 2E 300



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### FEATURES

Amperometric 2 electrode sensor cell  
Very selective  
Highly sensitive  
Long lifetime

### TYPICAL APPLICATIONS

TLV-monitoring, leakage detection  
portable & fixed point applications

### PART NUMBER INFORMATION

MINI	0248-024-30009
SENSORIC CLASSIC	0248-024-30069
CTL 4 series adaptation	0248-024-30049
CTL 7 series adaptation	0248-024-30079

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### TECHNICAL SPECIFICATIONS

Measuring Range	0–300 ppm
Sensitivity Range	30 nA/ppm ± 12 nA/ppm
Zero Current at 20°C	< ± 150 nA
Resolution at 20°C	< 2 ppm
Bias Potential	not required
Linearity	< 5% full scale
Response Time at 20°C	
t50	< 10 s calculated from 2 min. exposure time
t90	< 35 s calculated from 2 min. exposure time
Long Term Sensitivity Drift	< 10% per 6 months
Operation Conditions	
Temperature Range	-40°C to +50°C
Humidity Range	15–90% r.H, non–condensing
Effect of Humidity	no effect on base line shift, longer exposure to dry gas will decrease the sensitivity
Sensor Life Expectancy	> 36 months in air
Warranty	24 months

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### CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Acetic Acid	sat. vapor	0
Alcohols (i.e.IPA)	1025ppm	0 <sup>1</sup>
Ammonia	100 ppm	0 <sup>1</sup>
Carbon Dioxide	10%	0
Chlorine	1 ppm	0
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Gasoline Vapour	% range	0 <sup>1</sup>
Hydrogen	3000 ppm	1200
Hydrogen Sulfide	20 ppm	0 <sup>1</sup>
Nitric Oxide	100 ppm	0
Nitrogen Dioxide	10 ppm	0 <sup>1</sup>
Sulfur Dioxide	20 ppm	0 <sup>1</sup>

- 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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