

Chlorine Dioxide

SensoriC ClO2 3E 1 O (unfiltered)



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 3 electrode sensor cell
Low susceptibility to abrupt changes of humidity
Interference to Chlorine
High selectivity
0 voltage biased operation

TYPICAL APPLICATIONS

Pulp & Paper Industry, Water treatment plants, Desinfection
Portable and fixed point monitoring of TLV levels

PART NUMBER INFORMATION

MINI	2731-331-30009
SENSORIC CLASSIC	2731-331-30069
CTL 4 series adaptation	2731-331-30049
CTL 7 series adaptation	2731-331-30079

Note:

It is recommended to cross calibrate with 1 –5 ppm chlorine

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TECHNICAL SPECIFICATIONS

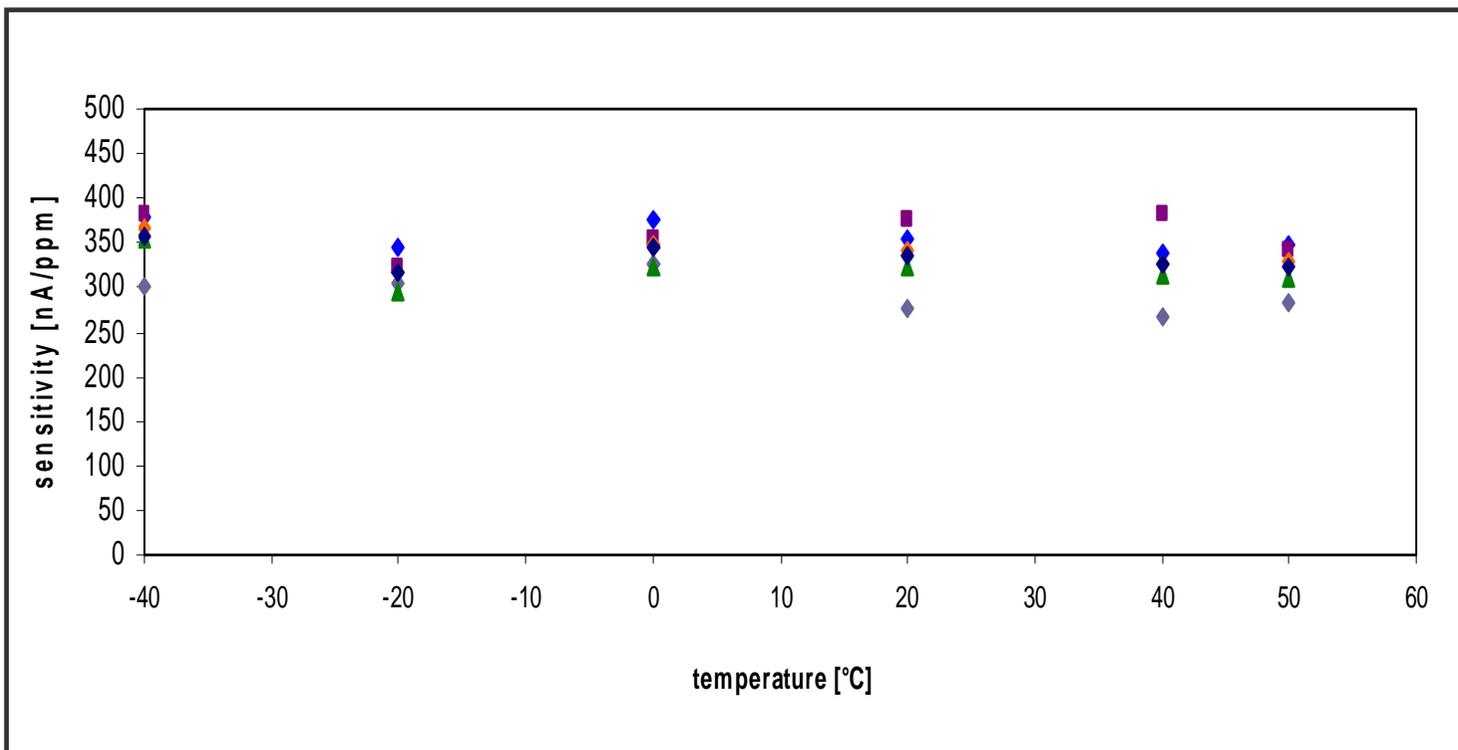
Measuring Range	0–1 ppm
Sensitivity Range	600 nA/ppm ± 200 nA/ppm
Zero Current at 20°C	< ± 15 nA
Resolution at 20°C	< 0.03 ppm
Bias Potential	0 mV
Linearity	< 10% full scale
Response Time at 20°C	
t50	< 20 s calculated from 4 min. exposure time
t90	< 120 s (typically < 60 s), calculated from 4 min. exposure
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
Sensor Life Expectancy	> 24 months in air
Warranty	12 months

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OUTPUT vs. TEMPERATURE:
(calibration has been done using 1 ppm Cl2 instead of ClO2)



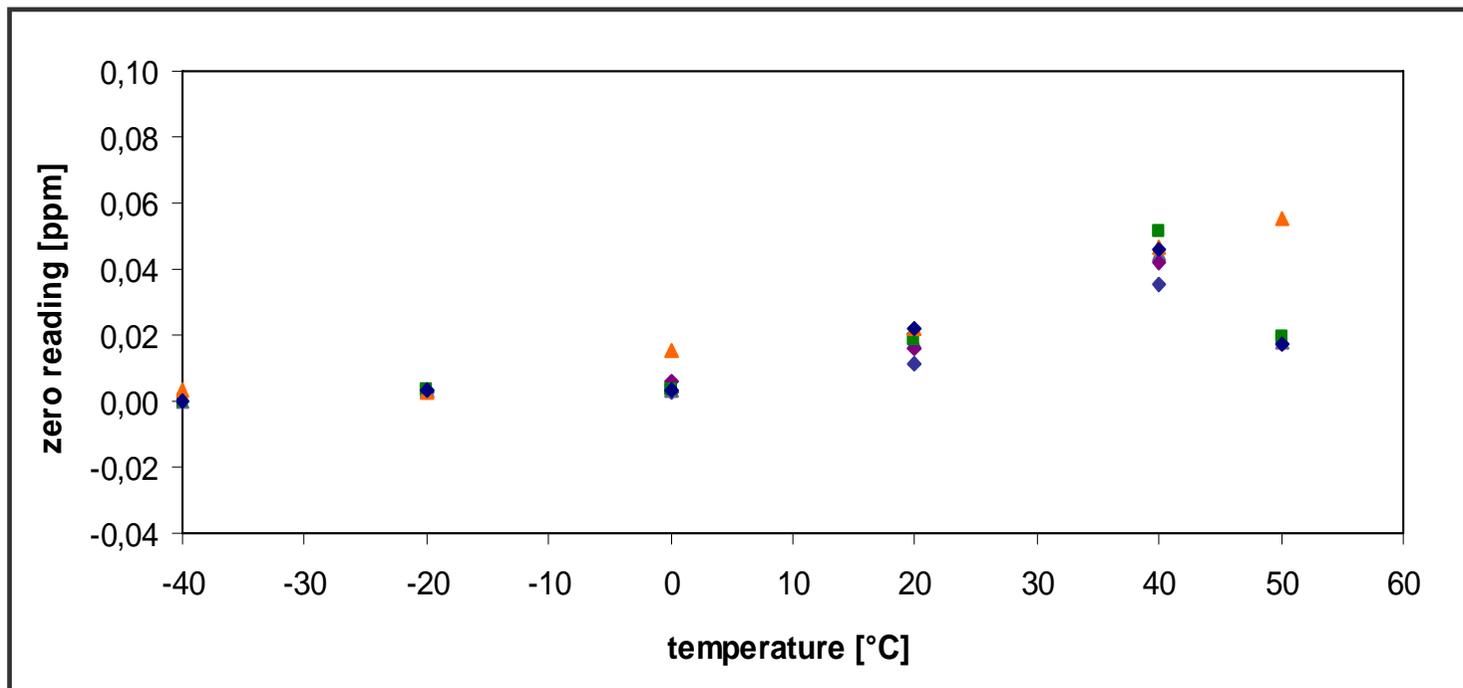
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ZERO READING vs. TEMPERATURE:
(calibration has been done using 1 ppm Cl2 instead of ClO2)



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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Alcohols	1000 ppm	0
Carbon Monoxide	100 ppm	0
Chlorine	1 ppm	0.6
Ozone	0.25 ppm	0.7
Hydrogen	3000 ppm	0
Hydrogen Sulfide	20 ppm	-5

Notes:

1. Interference factors may differ from sensor to sensor and with life time.
2. This table does not claim to be complete. The sensor might also be sensitive to other gases.
3. It is recommended to use 1 – 5 ppm Cl₂ for cross calibration.

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