Fluorine

SensoriC F2 3E 1



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FEATURES

Amperometric 3-electrode sensor High reliability High resolution Fixed organic gel electrolyte

TYPICAL APPLICATIONS

Chemical Industry, Petrochemical Industry, General Industry

PART NUMBER INFORMATION

MINI	1431-031-30009
SENSORIC CLASSIC	1431-031-30069
CTL 4 series adaptation	1431-031-30049
CTL 7 series adaptation	1431-031-30079

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TECHNICAL SPECIFICATIONS

Measuring Range Sensitivity Range Zero Current at 20°C Resolution at 20°C Bias Potential Linearity	0–1 ppm 1000 nA/ppm ± 300 nA/ ppm (negative current) < ± 20 nA < 0.02 ppm 0 mV < 5% full scale
Response Time at 20°C	
t50	< 30 s calculated from 4 min. exposure time with 1 ppm Cl_2
t90	< 80 s calculated from 4 min. exposure time with 1 ppm Cl_2
Long Term Sensitivity Drift	< 5% per month
Operation Conditions Temperature Range Humidity Range	-10°C to + 40°C 15-90% r.H., non-condensing
Effect of Humidity	abrupt changes of rel. humidity will cause short term drift in zero reading
Sensor Life Expectancy	> 18 months
Warranty	12 months

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RELATIVE OUTPUT vs. TEMPERATURE:

Due to the nature of the gas the temperature dependence of the sensor as a function of the environmental temperature conditions is strongly related to the experimental conditions.

SensoriC is currently revising this set of data.

Based on the current experience with this sensor the temperature dependence

- a) on the zero reading is < 0.1 ppm
- b) on the sensitivity is < 20% of the sensitivity at 20°C

within the specified temperature range.

Please contact our Technical Support Department (tech@sensoric.de) for further details.

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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Alcohols	1000 ppm	0
Arsine	0.2 ppm	1
Bromine		yes; n/d
Carbon Dioxide	5000 ppm	0
Carbon Monoxide	100 ppm	1
Chlorine	1 ppm	1.4
Diborane	0.25 ppm	0.4
Hydrocarbons	% range	0
Hydrochloric Acid	5 ppm	01)
Hydrogen	10000 ppm	0
Hydrogen Cyanide	1 ppm	-3
Hydrogen Sulfide	1 ppm	-2
Nitrogen	100 %	0
Nitrogen Dioxide	10 ppm	-19
Ozone	0.25 ppm	0.3
Phosphine	0.3 ppm	yes; n/d
Sulfur Dioxide 1) Short gas exposure in minute range.	20 ppm	0.04

Notes:

1. Interference factors may differ from sensor to sensor and with life time. It is advisable to calibrate with 1 ppm Cl₂.

2. This table does not claim to be complete. The sensor might also be sensitive to other gases.

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