

Hydrogen Sulfide

SensoriC H2S 3E 30

Product Data Sheet

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FEATURES

Amperometric 3 electrode sensor cell
fast response
high reliability
good performance at – 40°C
no sensitivity to unsat. HC, H₂, Alcohol

TYPICAL APPLICATIONS

leakage detection
portable & fixed point applications

PART NUMBER INFORMATION

MINI	0139-031-30009
SENSORIC CLASSIC	0139-031-30069
CTL4 series adaptation	0139-021-30049
CTL 7 series adaptation	0139-021-30079

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TECHNICAL SPECIFICATIONS

Measuring Range	0–30 ppm
Sensitivity Range	100 nA/ppm \pm 30 nA/ ppm
Zero Current at 20°C	< \pm 20 nA
Resolution at 20°C	< 0.1 ppm
Bias Potential	0 mV
Linearity	< 5% full scale
Response Time at 20°C	
t50	< 15 s calculated from 2 min. exposure time
t90	< 30 s calculated from 2 min. exposure time
Long Term Sensitivity Drift	< 10% per 6 months
Operation Conditions	
Temperature Range	-40°C to +40°C
Humidity Range	5–90% r.H., non–condensing
Effect of Humidity	no effect
Sensor Life Expectancy	> 18 months
Warranty	12 months

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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Arsine	0.2 ppm	0
Carbon Dioxide	5000 ppm	0
Carbon Monoxide	100 ppm	0
Chlorine	1 ppm	0
ChlorineDioxide	1 ppm	0
Chlorine Hydrocarbons	<200 ppm	0
Hydrocarbons	% range	0
unsat. Hydrocarbons	% range	0
Hydrogen	10000 ppm	0
Hydrogen Cyanide	20 ppm	10
Methane	100 %	0
Nitric Oxide	100 ppm	-15
Nitrogen Dioxide	10 ppm	- 5
Ozone	0.25 ppm	0
Sulfur Dioxide	20 ppm	2

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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