Hydrogen Sulfide

SensoriC H2S 3E 100 S



SensoriC Sensors are designed and manufactured in Justus-von-Liebig-Str. 22, D- 53121 Bonn, Germany WWW.citytechs吗啊啊自动化 http://www.s号的494002品》与全位6 约55-3433764860)印格 57595489376182 E-MAIL:szss200163.com Rev. 09/2006

FEATURES

Amperometric 3 electrode sensor cell Very stable zero reading Very selective Highly sensitive Long life time

TYPICAL APPLICATIONS

TLV-monitoring, leakage detection portable & fixed point applications Oil & Petrochemical industry, water treatment plants, Biogas applications

PART NUMBER INFORMATION

MINI	0145-134-30009
SENSORIC CLASSIC	0145-134-30069
CTL4 series adaptation	0145-134-30049
CTL 7 series adaptation	0145-134-30079

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TECHNICAL SPECIFICATIONS

Measuring Range	0–100 ppm	
Sensitivity Range	750 nA/ppm ± 150 nA/ ppm	
Zero Current at 20°C	< ± 200 nA	
Resolution at 20°C	< 0.3 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	
	< 10% per 6 months	
Operation Conditions	< 10% per 6 months -40°C to +50°C	
Operation Conditions Temperature Range	-40°C to +50°C	
Operation Conditions		
Operation Conditions Temperature Range	-40°C to +50°C	
Operation Conditions Temperature Range Humidity Range Effect of Humidity	-40°C to +50°C 15–90% r.H., non–condensing < 1 ppm at abrupt changes of humidity	
Operation Conditions Temperature Range Humidity Range Effect of Humidity Sensor Life Expectancy	-40°C to +50°C 15–90% r.H., non–condensing < 1 ppm at abrupt changes of humidity > 48 months	
Operation Conditions Temperature Range Humidity Range Effect of Humidity	-40°C to +50°C 15–90% r.H., non–condensing < 1 ppm at abrupt changes of humidity	

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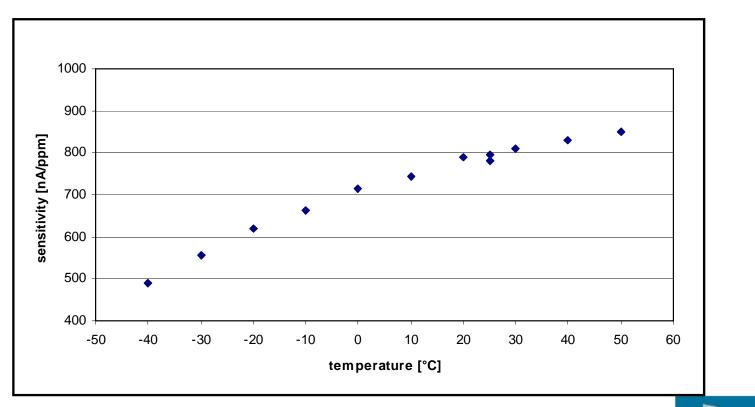
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OUTPUT vs. TEMPERATURE:



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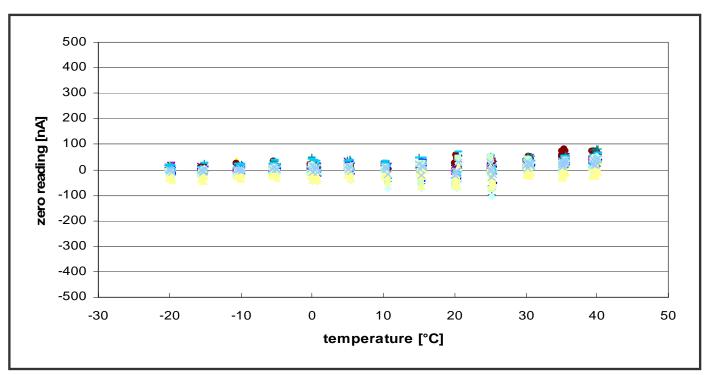
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ZERO READING vs. TEMPERATURE:



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CROSS SENSITIVITIES AT 20°C

Gas	Concentration	Reading [ppm]
Ammonia	100 ppm	0
Carbon Monoxide	100 ppm	< 1
Chlorine	20 ppm	< 5
Ethylene	500 ppm	0
Hydrogen	10000 ppm	< 10
Hydrogen Cyanide	15 ppm	< 0.2
Isopropanol	600 ppm	0
Methane	2.18 %	0
Methanol	1000 ppm	0
Nitrogen Dioxide	10 ppm	< 3
Sulfur Dioxide	10 ppm	< 0.5

Notes:

1. Interference factors may differ from sensor to sensor and with life time. It is not adviseable 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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