

SEC Gas Sensor

HYDROGEN SULFIDE 2000 HL 4S

Technical Specification

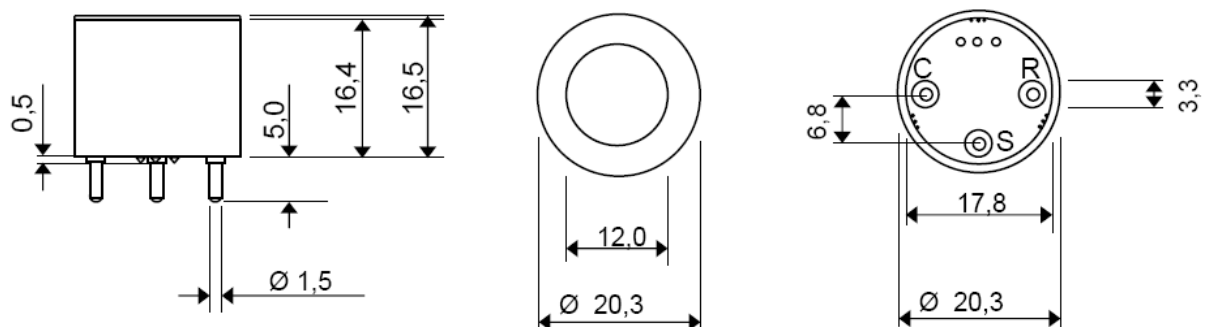
Sensor Type	H ₂ S 2000 HL Sensor 4S
Detectable Gases	Hydrogen Sulfide
PN single sensor	01-04-20-03
Measuring Principle	Amperometric 3-electrode sensor
Contact	3 gold pins * non solderable
Standard Range	0 – 2000 ppm
Lower Detectable Limit (LDL)	1 ppm
Maximum Range	5000 ppm
MAK/TLV	10 ppm
Long Term Sensitivity Drift	< 1 % / month
Linearity at standard range	linear
Repeatability	> 98 % of signal
Zero current at normal conditions	+/- 20 nA
Sensitivity	10 ... 30 nA/ppm
Response time at target level	
T50	< 10 s
T90	< 30 s
Sensor warm up time typically	60 s
Operating conditions	- 20°C ... +60°C 10 ... 95 % r. h.
Expected sensor life time	3 years



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Dimensional Drawing

Sensor dimensions 6,5 mm x 11,4 mm x 14,4 mm ± 0,15 mm tolerance



* Soldering to the pins will damage the sensor

SEC Gas Sensor**HYDROGEN SULFIDE 2000 HS 4S****Temperature Dependency**

3%/°C (October 2010)

Will be updated soon

HYDROGEN SULFIDE 2000 HS 4S**Cross Sensitivity**

<i>Gas</i>	<i>Formula</i>	<i>Test Gas Concentration</i>	<i>Reading in ppm</i>
Ammonia	NH ₃	25 ppm	0
Carbon Dioxide	CO ₂	5000 ppm	0
Carbon Monoxide	CO	50 ppm	3
Chlorine	Cl ₂	1.0 ppm	n/a
Hydrocarbons unsaturated	-	1 %	0
Hydrogen	H ₂	100 ppm	3
Isopropanol	C ₃ H ₇ OH	1000 ppm	0
Nitric Oxide	NO	20 ppm	?
Nitrogen Dioxide	NO ₂	10 ppm	-2
Ozone	O ₃	0.5 ppm	n/a
Sulphur Dioxide	SO ₂	20 ppm	n/a

Note:

Test conditions at 20°C/ 1013 hPa, Flow Rate > 500 qcm/min
 Cross sensitivity gases are not target gases. Relation can change with aging.

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