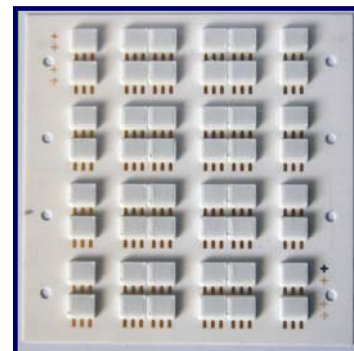


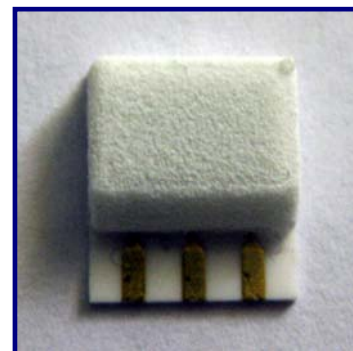
SEC Gas Sensor

HYDROGEN SULFIDE SECS 500 HS Technical Specification

Sensor Type	H ₂ S Sensor SCES 500 HS
Detectable Gases	Hydrogen Sulfide
PN wafer à 48 sensors	01-01-20-01
PN single sensor	01-02-20-01
Measuring Principle	Amperometric 3-electrode sensor
Contact	3 gold pads * non solderable



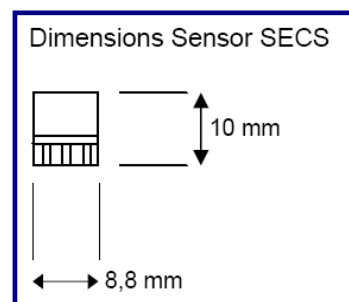
Standard Range	0 – 200 ppm
Lower Detectable Limit (LDL)	1 ppm
Maximum Range	500 ppm
MAK/TLV	10 ppm
Long Term Sensitivity Drift	< 1 % / month
Linearity at standard range	linear
Repeatability	> 98 % of signal
Zero current at normal conditions	+/- 20 nA
Sensitivity	60 ... 160 nA/ppm
Response time at target 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



HYDROGEN SULFIDE SECS 500 HS Dimensional Drawing

Sensor dimensions 10 mm x 8,8 mm x 3 mm

* Soldering to the pads will damage the sensor



SEC Gas Sensor**HYDROGEN SULFIDE SECS 500 HS****Temperature Dependency**

3%/°C (October 2010)

Will be updated soon

HYDROGEN SULFIDE SECS 500 HS**Cross Sensitivity**

Gas	Formula	Test Gas Concentration	Reading in ppm
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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