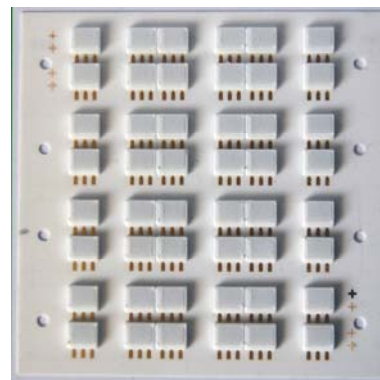


Specification Sheet HYDROGEN

<i>Sensor Type</i>	<i>SECS H2 20000 Sensor</i>
<i>Detectable Gases</i>	<i>H2 Hydrogen</i>
<i>PN Wafer à 48 sensors</i>	<i>01-01-10-01</i>
<i>PN single sensor</i>	<i>01-02-10-01</i>
<i>Measuring Principle</i>	<i>Amperometric 3-electrode sensor</i>
<i>Specific Sensor Data</i>	<i>no</i>
<i>Connector</i>	<i>3 gold contacts</i>



Technical Specifications

Standard Range	0 – 20.000 ppm
Lower Detectable Limit (LDL)	100 ppm
Maximum Range	40.000 ppm
LEL	40.000 ppm
Long Term Sensitivity Drift	< 10 % / year
Deviation from linearity at standard range	< 20 % FS
Zero current at normal conditions	+/- 100 nA
Sensitivity	0,4 ... 10,0 nA/ppm
Response time at target level	
T50	< 10 s
T90	< 30 s
Sensor warm up time typically	20 s
Operating conditions	- 20°C ... +80°C
	15 ... 90 % r. h.
Temperature dependence	< 0,5 %/°C
Sensor life time	5 years expected
Sensor dimensions	10 mm x 8,8 mm x 3 mm

Specification Sheet Hydrogen

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	37
Chlorine	Cl ₂	1.0 ppm	0
Hydrocarbons unsaturated	-	1 %	0
Hydrogen	H ₂	1000 ppm	1000
Hydrogen Sulphide	H ₂ S	10 ppm	440
Isopropanol	C ₃ H ₇ OH	1000 ppm	?
Nitric Oxide	NO	20 ppm	?
Nitrogen Dioxide	NO ₂	10 ppm	?
Ozone	O ₃	0.5 ppm	?
Sulphur Dioxide	SO ₂	20 ppm	?

Please 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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