SolidsenSe
Gas Sensors

Specification Sheet HYDROGEN Micro

Sensor Type	*H2 Sensor Micro*
Detectable Gases	*H2 Hydrogen*
Part number	*01-27-10-01*
Measuring Principle	*Amperometric 3-electrode sensor*
Specific Sensor Data	*no*
Connector	*3 gold contacts with pins*

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 (H x W x L)	6,5 x 11,4 x 14,4 mm

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Specification Sheet Hydrogen Micro Cross Sensitivity

Gas	*Formula*	*Test Gas Concentration*	*Reading in ppm*
Ammonia	NH3	25 ppm	0
Carbon Dioxide	CO2	5000 ppm	0
Carbon Monoxide	CO	50 ppm	37
Chlorine	Cl2	1.0 ppm	0
Hydrocarbons unsaturated	-	1 %	0
Hydrogen	H2	1000 ppm	1000
Hydrogen Sulphide	H2S	10 ppm	0
Isopropanol	C3H7OH	1000 ppm	0
Nitric Oxide	NO	20 ppm	?
Nitrogen Dioxide	NO2	10 ppm	?
Ozone	O3	0.5 ppm	0
Sulphur Dioxide	SO2	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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