

## Specification Sheet HYDROGEN Micro

<i>Sensor Type</i>	<i>H2 Sensor Micro</i>
<i>Detectable Gases</i>	<i>H2 Hydrogen</i>
<i>Part number</i>	<i>01-27-10-01</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 with pins</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 (H x W x L)	6,5 x 11,4 x 14,4 mm

## Specification Sheet Hydrogen Micro Cross Sensitivity

Gas	Formula	Test Gas Concentration	Reading in ppm
Ammonia	NH <sub>3</sub>	25 ppm	0
Carbon Dioxide	CO <sub>2</sub>	5000 ppm	0
Carbon Monoxide	CO	50 ppm	37
Chlorine	Cl <sub>2</sub>	1.0 ppm	0
Hydrocarbons unsaturated	-	1 %	0
Hydrogen	H <sub>2</sub>	1000 ppm	1000
Hydrogen Sulphide	H <sub>2</sub> S	10 ppm	0
Isopropanol	C <sub>3</sub> H <sub>7</sub> OH	1000 ppm	0
Nitric Oxide	NO	20 ppm	?
Nitrogen Dioxide	NO <sub>2</sub>	10 ppm	?
Ozone	O <sub>3</sub>	0.5 ppm	0
Sulphur Dioxide	SO <sub>2</sub>	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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