

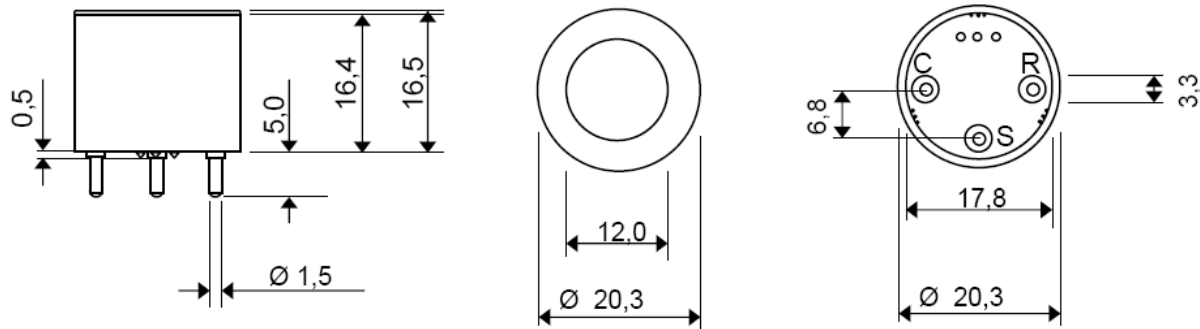
HYDROGEN 4S **Technical Specification**

Sensor Type	H ₂ 20.000 4S
Detectable Gases	Hydrogen
PN single sensor	01-04-10-02
Measuring Principle	Amperometric 3-electrode sensor
Contact	3 gold pins * non solderable
Standard Range	0 – 20.000 ppm
Lower Detectable Limit (LDL)	10 ppm
Maximum Range	40.000 ppm
LEL	40.000 ppm
Long Term Sensitivity Drift	< 10 % / year
Linearity at standard range	< 10 % FS
Repeatability	> 98 % of signal
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 10 ... 95 % r. h.
Expected life time	5 years



HYDROGEN 4S **Dimensional Drawing**

Sensor dimensions without pins Ø 20,3 mm, Height 26,5 mm ± 0,15 mm tolerance



* Soldering to the pins will damage the sensor

HYDROGEN 4S**Temperature Dependence**

0,5%/°C (October 2010)

Will be updated soon

HYDROGEN 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	37
Chlorine	Cl ₂	1.0 ppm	0
Hydrocarbons unsaturated	-	1 %	0.0
Hydrogen Sulphide	H ₂ S	10 ppm	440
Isopropanol	C ₃ H ₇ OH	1000 ppm	nA
Nitric Oxide	NO	20 ppm	0
Nitrogen Dioxide	NO ₂	10 ppm	nA
Ozone	O ₃	0.5 ppm	0
Sulphur Dioxide	SO ₂	20 ppm	0

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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