

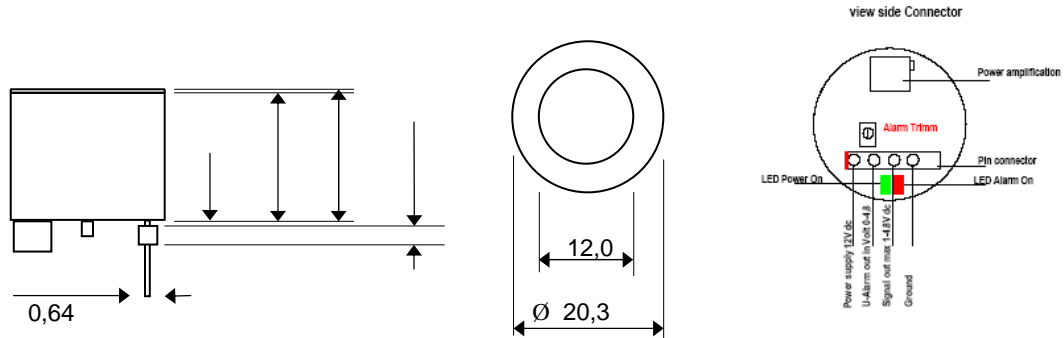
**HYDROGEN 4SE 5V****Technical Specification**

<i>Sensor Type</i>	<i>H<sub>2</sub> 20000 4SE 5V</i>
<i>Detectable Gases</i>	<i>Hydrogen</i>
<i>PN single sensor</i>	<i>01-34-10-02</i>
<i>Measuring Principle</i>	<i>Amperometric 3-electrode sensor</i>
<i>Contact</i>	<i>4 pin and socket connector (spacing 2,54 mm)</i>
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
Linearity at standard range	linear
Repeatability	> 98 % of signal
Zero Line	@ 1 VDC
Sensitivity	0,15 mV/ppm
Signal Out	1 – 4,8 VDC
Adjusted	3 VDC = 20000 ppm
Power Supply	8-24 VDC (10 mA @ 12 VDC)
Amplification	With trim potentiometer
Power On	LED signal green
Alarm	LED signal red
Response time at target level	
T50	< 10 s
T90	< 30 s
Sensor warm up time typically	20 s
Operating conditions	- 20°C ... + 60°C
	10 ... 95 % r. h.
Expected life time	3 years

*To set Alarmsignal , you have to trim Potentiometer*

**HYDROGEN 4SE 5V** **Dimensional Drawing**

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



**HYDROGEN 4SE 5V** **Temperature Dependence**

Temperature compensated

**HYDROGEN 4SE 5V** **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 %	0.0
Hydrogen Sulphide	H <sub>2</sub> S	10 ppm	440
Isopropanol	C <sub>3</sub> H <sub>7</sub> OH	1000 ppm	nA
Nitric Oxide	NO	20 ppm	0
Nitrogen Dioxide	NO <sub>2</sub>	10 ppm	nA
Ozone	O <sub>3</sub>	0.5 ppm	0
Sulphur Dioxide	SO <sub>2</sub>	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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