

HYDROGEN 4SE 5V Technical Specification

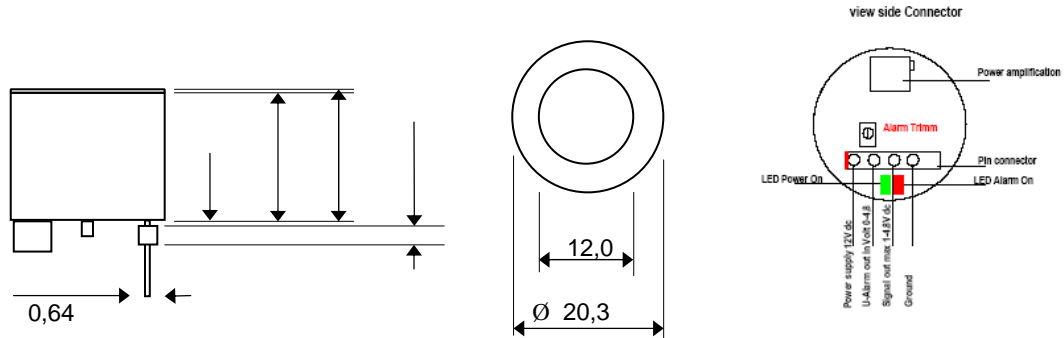
<i>Sensor Type</i>	SEC H ₂ 20000 4SE 5V
<i>Detectable Gases</i>	Hydrogen
<i>PN single sensor</i>	01-34-10-02
<i>Measuring Principle</i>	Amperometric 3-electrode sensor
<i>Contact</i>	4 pin and socket connector (spacing 2,54 mm)
Standard Range	0 – 20.000 ppm
Lower Detectable Limit (LDL)	100 ppm
Maximum 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 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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SolidSense GmbH - Felix-Wankel-Str. 5 - 82152 Krailling, Germany
Tel: +49 89 893 255 21 – Fax: +49 89 850 9374 – info@solidSense.de – www.solidSense.de