

H2 S4 HYDROGEN SENSOR



SPECIFICATION

Operating Principle:	Amperometric, 3-electrode cell
Gas Detected:	Hydrogen H ₂
Measurement Range:	0 – 20,000 ppm
Lower Detectable Limit (LDL):	100 ppm
Maximum Range:	40,000 ppm
LEL:	40,000 ppm
Expected Operating Life:	5 years
Temperature Range:	-20°C to +80°C
Humidity Range (non-condensing):	15 - 90% RH
Response Time (T50):	<10 seconds
Response Time (T90):	<30 seconds
Long Term Sensitivity Drift:	<10% per year
Deviation From Linearity at Standard Range:	< 20% FS
Zero Current at Normal Conditions:	+/- 100nA
Sensitivity:	0.4 – 10.0 nA/ppm
Sensor Warm-Up Time (typical):	20 seconds
Temperature Dependence:	<0.3% per °C
Sensor dimensions:	4 series design ø 20.5mm; Height 18.2mm
Part Number:	2112B041001



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CROSS SENSITIVITY DATA

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
Hydrogen H ₂	1000 ppm	1000
Hydrogen Sulphide H ₂ S	10 ppm	0
Isopropanol C ₃ H ₇ OH	1000 ppm	0
Nitric Oxide NO	20 ppm	?
Nitrogen Dioxide NO ₂	10 ppm	?
Ozone O ₃	0.5 ppm	0
Sulphur Dioxide SO ₂	20 ppm	?

Note: Test conditions at 20°C / 1013 hPa, flow rate > 500 qcm/min. Cross-sensitivity gases are not target gases. Relationship can change over time.

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