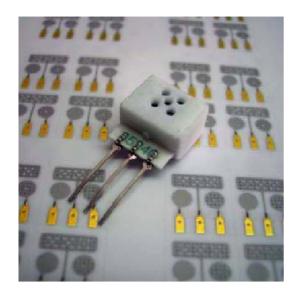
H2 NANO HYDROGEN SENSOR



SPECIFICATION

Measuring Principle: Amperometric, 3-electrode sensor

Detectable Gases: H2 Hydrogen

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

Expected Operating Life: 5 years

Temperature Range: -20°C - +80°C

Humidity Range (non-condensing): 15 – 90% RH

Response Time (T50): <10 seconds

Response Time (T90): <30 seconds

Long Term Output Drift: <0.1% volume of signal per month

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 (typically): 20 seconds

Temperature Co-Efficient: < 0.5% per °C

Sensor dimensions: 5.5mm x 7.7mm (+2.8mm) x 9.8mm

Part Number: 2112B071101



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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 overtime.

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