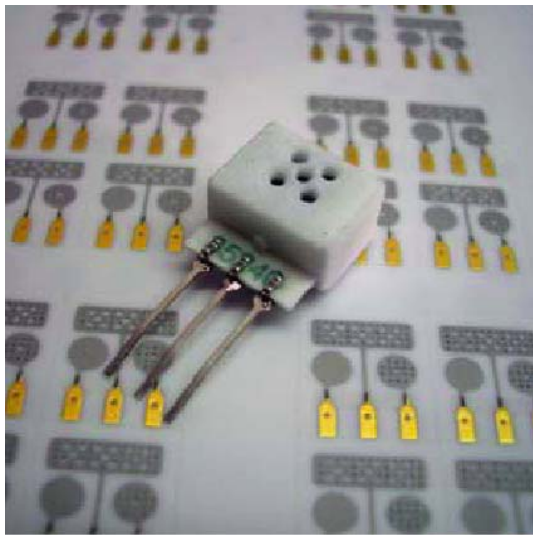


H2 SS HYDROGEN SENSOR - NANO



Part Number: 2112B011710

SPECIFICATION - NANO

Measuring Principle:	Amperometric, 3-electrode sensor
Detectable Gases:	Hydrogen H ₂
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
Warranty Period:	2 years from date of despatch
Part Number:	2112B011710



H2 SS HYDROGEN SENSOR - NANO

CROSS SENSITIVITY DATA

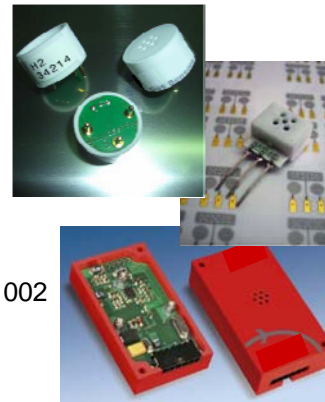
GAS	CONCENTRATION	READING IN PPM
Ammonia NH ₃	25 ppm	0
Carbon Dioxide CO ₂	5000 ppm	0
Carbon Monoxide CO	50 ppm	37
Chlorine Cl ₂	1.0 ppm	0
Hydrocarbons unsaturated	1%	0
Hydrogen H ₂	1000 ppm	1000
Hydrogen Sulphide H ₂ S	10 ppm	0
Isopropanol C ₃ H ₇ OH	1000 ppm	0
Nitric Oxide NO	20 ppm	To be advised
Nitrogen Dioxide NO ₂	10 ppm	To be advised
Ozone O ₃	0.5 ppm	0
Sulphur Dioxide SO ₂	20 ppm	To be advised

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

SENSOR OPTIONS

The H₂ SS sensor is also available as sensor only options and as housed systems:

Micro sensor:	part no. 2112B012710
Raw sensor:	part no. 2112B010210
Nano sensor:	part no. 2112B011710
4 series sensor:	part no. 2112B010410
USB gas sensor stick:	part no. 2112B051001 / 2112B051002
H₂ Gas Measuring System in PVC housing:	part no. 2112B0090
H₂ Gas Measuring System in aluminium housing:	part no. 2112B24420



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