

HYDROGEN H₂ SS SENSOR + 1.8V TRANSMITTER

SPECIFICATION

Operating Principle: Amperometric, 3-electrode cell
4-pin and socket connector

Gas Detected: Hydrogen H₂

Measurement Range: 0 – 20,000 ppm

Lower Detectable Limit (LDL): 100 ppm

Maximum Range: 40,000 ppm

LEL: 40,000 ppm

Sensor Expected Operating Life: 5 years

Temperature Range: -20°C to +60°C

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

Response Time (T50): <10 seconds

Response Time (T90): <30 seconds

Long Term Sensitivity Drift: <20% per year

Deviation From Linearity at Standard Range: < 20% FS

Zero Voltage at Normal Conditions: 200mV (shifted for Offset)

Sensitivity: 0.04 to 0.08 mV/ppm

Sensor Warm-Up Time (typical): 20 seconds

Temperature Dependence: < 1% / °C incl. NTC
temperature compensation

Sensor dimensions: Ø 20.3mm; Height 26.5mm

Warranty Period: 6 months from date of despatch

Part Number: 2112B012410

Additional Options: Available as 5V transmitter and as sensor only options. Please ask Euro-Gas for details.

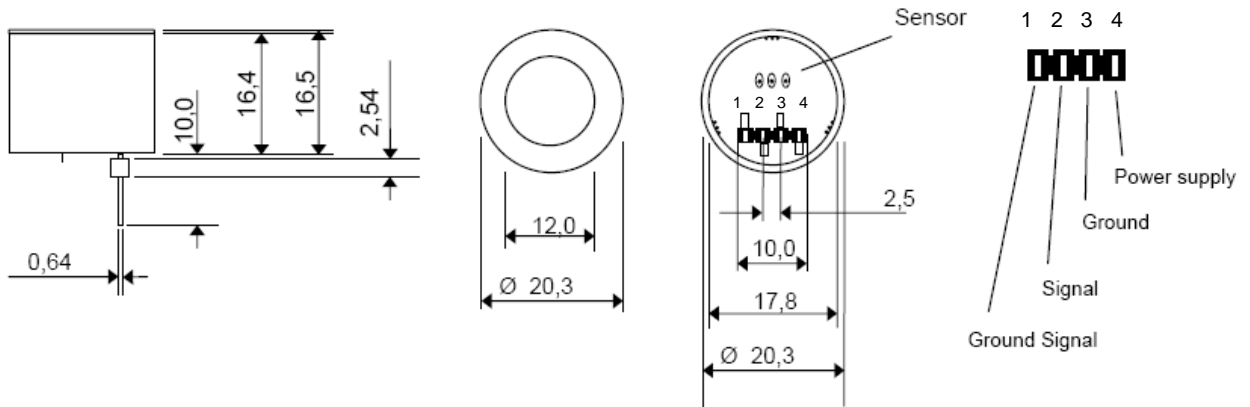
1.8V transmitter – ideal for battery operated applications.
Part Number: 2112B012410



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DIMENSIONS

(all dimensions in mm ± 0,15 mm tolerance)



Supply Voltage:

2.8V to 3.3V with pin and socket connector

Analogue output range:

0.2V to 1.8 V

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 over time.



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EURO-GAS
MANAGEMENT SERVICES LTD

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TRANSMITTER OPTIONS

5V Model

Also available as a 5V model, with trim potentiometer and LED power signal.

Please ask Euro-Gas for details.

Supply voltage: 6V – 24V
Output range: 1V - 5V
Part no: 2112B013410

SENSOR OPTIONS

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

Raw sensor:	part no. 2112B010210
Micro sensor:	part no. 2112B012710
4 series sensor:	part no. 2112B010410
USB gas sensor stick:	part no. 2112B051001

H₂ Gas Measuring System in PVC housing:
part no. 2112B0090

H₂ Gas Measuring System in aluminium housing:
part no. 2112B24420



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02/12



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