

NO₂ SENSOR FOR OEM APPLICATIONS

SPECIFICATION

Detection principle:	electrochemical
Operation:	continuous
Gas entry:	by diffusion
Measuring range:	0 – 20 ppm NO ₂
Reproducibility:	smaller than 2% of measuring signal
Response time t₉₀:	smaller than 60 seconds
Temperature range:	-20°C up to +50°C
Humidity range:	15-90% relative humidity, non-condensing
Pressure range:	atmospheric ± 10%
Typical baseline range (pure air, 20°C):	-0,2ppm to +0,2ppm
Maximum zero shift (+20°C to +40°C):	0,2ppm equivalent
Expected long term output drift:	<2% signal loss/month
Recommended load resistor:	33 Ohm
Bias voltage:	not required
Output signal:	-250 ± 75 nA/ppm
Output linearity:	linear
Resolution:	0.1ppm
Life time:	2 years in air
Dimensions:	20 mm diameter Height 20.7mm including pin projection
Part no:	2112B9998

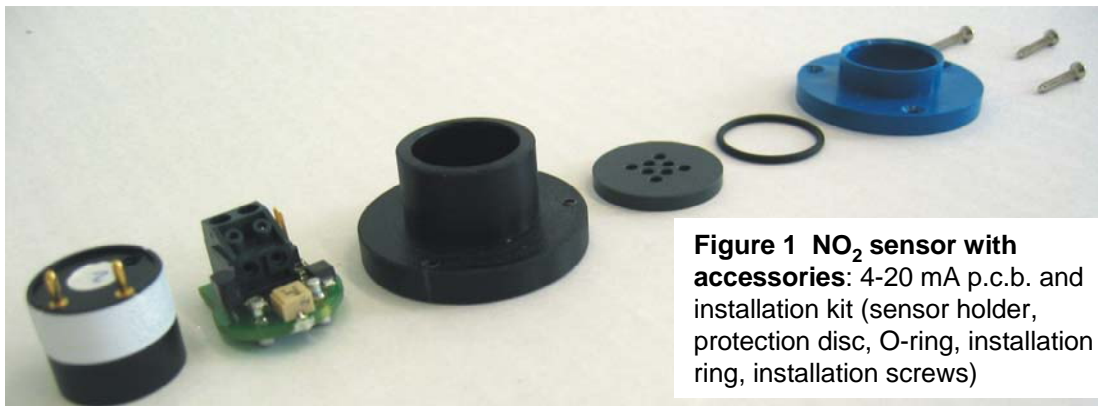


Figure 1 NO₂ sensor with accessories: 4-20 mA p.c.b. and installation kit (sensor holder, protection disc, O-ring, installation ring, installation screws)



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PHYSICAL CHARACTERISTICS

Weight:	approximately 5.4g
Position sensitivity:	none
Storage life:	six months in a container
Recommended storage temp.:	+ 5 °C up to + 20°C
Warranty period:	12 months from date of despatch
Part no:	2112B9998

Accessories

- 4-20mA transmitter including NO₂ sensor and installation kit, part no: 2112B9999.
- Installation kit - Sensor holder, protection disc, O-ring, installation ring and installation screws suitable for assembling into a wall mounting box, part no: 2112B1012.
- Test gas flow cap, part no: 2112B1010.
- Gas Measuring System – NO₂ sensor with transmitter and installation kit provided as a complete assembly in aluminium housing, part no: 2112B9995.

CROSS SENSITIVITY DATA

Interfering Gas	Concentration	Reading
CO	300ppm	0ppm
SO ₂	5ppm	0ppm
NO	35ppm	0ppm
H ₂	300ppm	0ppm
Ethylene	100ppm	0ppm
Cl ₂	10ppm	approx 8ppm

Performance data conditions: 20°C, 50% RH and 1013 mbar

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