

O₂ SL SENSOR + 4-20mA TRANSMITTER



Figure 1. Side view
O₂ SL sensor with
4-20mA transmitter
and installation kit.



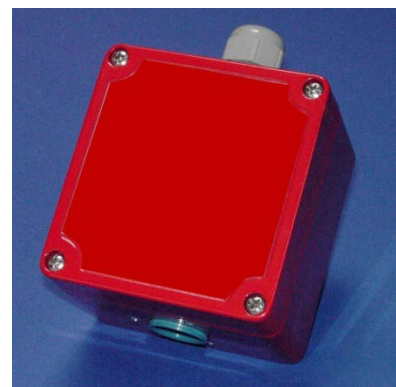
Figure 2. Top view
O₂ SL Oxygen sensor with
4-20mA transmitter and
installation kit. Part no.
2112B4532



Figure 3. Components
O₂ transmitter with sinter
metal disc and blue
installation ring

SPECIFICATION

Operating Principle:	2-electrode cell
Measuring Range:	0-25% v/v
Output Signal:	4-20 mA
Response Time t90:	< 10 sec
Repeatability:	<± 1% of measuring signal
Long Term Output Drift:	<± 2% of signal per month
Temperature Range:	-20 °C to +50°C
Temperature Co-efficient:	<± 2% of signal per °C
Humidity Range:	15-90% relative humidity, non-condensing
Pressure Range:	1 atm ± 10%
Pressure Co-Efficient:	<± 0.003% of signal per mBar
Expected Operating Time:	18 months in air
Power Supply:	24 V d.c. ± 15%



**Figure 4. O₂ Gas
Measuring System**

The O₂ SL Oxygen sensor with
4-20mA transmitter and
installation kit is also available
as a complete housed unit in
aluminium housing.
Measuring range: 0-25% volume.
Part no. 2112B4533



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Potentiometer

for calibration adjustment

Please note: No zero adjustment required as automatically compensated

Test Gas

For calibration, flow required level of Oxygen O₂ through a test flow cap. Test Gas Cap also available from Euro-Gas. Please ask for details



Figure 5. Instructions
O₂ SL Oxygen sensor with 4-20mA transmitter and installation kit.
Part no. 2112B4532

Two wire screw terminal for 24V d.c. power supply (+/-10%); +4-20mA signal output.

Please note: No polarity (+/-) requirements

Test pins for one man calibration; 0.4 – 2.0 volts signal output



Figure 6. Test gas cap
Part no. 2112B1010

Two wire screw terminal: The transmitter has a two wire screw terminal to connect a 24V d.c. power supply. There is no polarity requirement across the two screw terminals (i.e. there is no +/- logic).

On the same two wires, you will receive the 4-20 mA signal output. The transmitter is precalibrated. When there is zero O₂ concentration, you will receive a 4mA signal. With a 25% volume concentration, you will receive a 20mA signal.

Potentiometer: This is used for adjusting the signal to the correct value if you apply a test gas concentration to the transmitter and it gives an incorrect signal.

Test pins: The two test pins allow for one man calibration. Please kindly note that the signal here is not 4-20 mA but **0.4 – 2.0 Volts**.

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