

An intrinsically safe, high performance oxygen transducer.



- Specific to oxygen
- Excellent linearity and accuracy
- Superior long term stability
- Long life with high reliability
- Intrinsically safe - component certification

Specification	
Transducer:	
PERFORMANCE	
Technology:	Paramagnetic (Pm)
Range:	0 - 100% O ₂
Accuracy (Intrinsic error):	<±0.1% O ₂
Linearity:	<±0.1% O ₂
Repeatability:	<±0.01% O ₂
Zero Drift:	<±0.2% O ₂ per month (excludes up to <±0.1% O ₂ in the first 24 hours of operation)
Response time (T₁₀ - T₉₀):	<2.5 secs at flow rate 200ml/min
OUTPUTS/CONTROLS	
Signal Output:	0-1Vdc linear
External Controls:	Zero & span potentiometers on PCB. Remote zero & span option
PHYSICAL	
Weight:	815 g (28.75oz)
Dimensions:	80 x 88 x 55 mm (3.15 x 3.46 x 2.16")
Gas Connectors:	2 connectors, 2.5mm (0.1") nominal OD, suitable for flexible or semi rigid tubing

Specification continued**Transducer:****SAMPLE CONDITIONS****Operational Flow Rate:**

200ml/min maximum

Sample Gas condition:

Clean dry gas, free of entrained oil, particulates <3µm, non condensing

Sample Wetted Materials:

316 Stainless Steel, Viton, platinum/Iridium alloy, platinum, borosilicate glass, electroless nickel

AMBIENT CONDITIONS**Operating Temperature:**

0°C to 65°C (32°F to 149°F)

Storage Temperature:

-40°C to 70°C (-40°F to 158°F)

Temperature Coefficient:Within a range of 0°C to 65°C (32°F to 149°F): Zero: <±0.03% O₂/°C, Span: <±0.05% of reading/°C**Pressure:**

Measures oxygen partial pressure.

If vented to atmosphere, output voltage is directly proportional to the barometric pressure.

Pressure Range:

±33kPag (±5psig)

Ambient Humidity:

0 to 95% RH.

Shock and Vibration:

Meets requirements of BS EN 60068-2-6:1996 (IEC 68-2-6), BS EN 60068-2-27:1993 (IEC 68-2-27), IEC 68-2-34.

External Power Supply

5Vdc, 80mA maximum (Ripple & Noise: <0.1V peak to peak)

EMC:

This product has no intrinsic function, and as such, cannot be given a CE mark. However, provided it is installed in accordance with good engineering design and build standard, the product will meet the European standards for EMC.

Intrinsic Safety Certification

EExia IIC. Component Certificate Ex99E2181U

