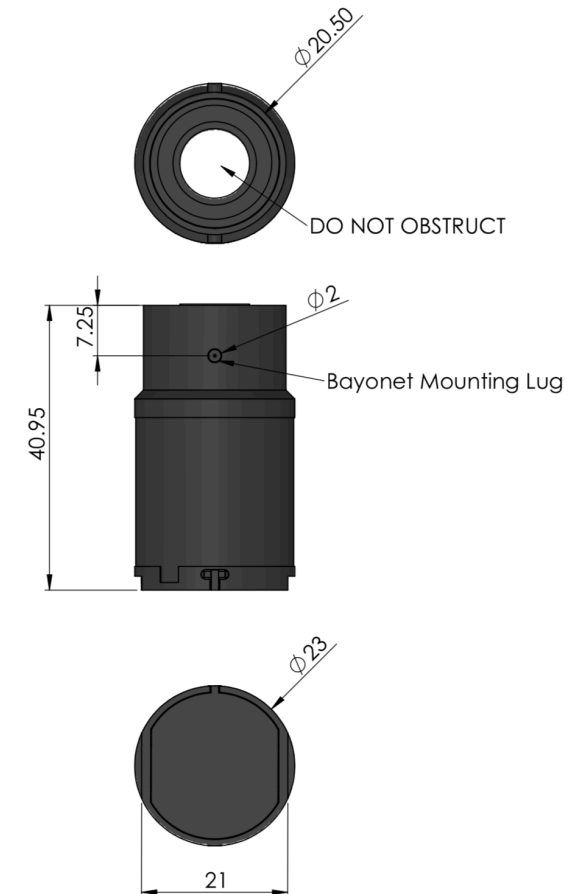


Introduction The S+2OX is a highly reliable, environmentally robust oxygen sensor designed for emissions monitoring.

Key Features: Guaranteed to meet 2 years life. Robust to extreme environments and rapid pressure/temperature changes.

Performance Characteristics	
Output signal	0.41 ± 0.05 mA in air
Zero Current (Offset)	< 0.3% vol. O ₂
T90 Response Time	< 10 seconds (typically <5 seconds)
Measurement Range	0 - 25% Oxygen
Maximum Overload	30% Oxygen
Linearity	$S = K \log_e (1/1-C)$
Temperature Coefficient	0.2 % signal / °C
Pressure Coefficient	<0.02% signal / mBar

Environmental Details	
Temperature Range Continuous	-20°C to +45°C
Pressure Range	Atmospheric ± 10%
Operating Humidity Range (non-condensing)	0% to 99% RH



Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm

Important Note:

All performance data is based on conditions at 20°C, 50%RH and 1 atm, using DD Scientific recommended circuitry.

Sensor performance is temperature dependent; please contact DD Scientific for temperature performance other than 20°C.

Lifetime Details	
Long Term Output Drift	< 5% over operating life
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 24 months in air
Standard Warranty	24 months from date of dispatch

Intrinsic Safety Data	
Maximum current in normal operation (pure O ₂)	TBC
Maximum o/c Voltage (10 to 100% O ₂)	TBC
Maximum s/c Current (10 to 100% O ₂)	TBC

Temperature data to follow when Design Validation/Product Validation (DV/PV) complete

WARNING: By the nature of the technology used, any electrochemical gas sensor offered by DD Scientific can potentially fail to meet specification without warning. Although DD Scientific Ltd makes every effort to ensure the reliability of our products of this type, where life safety is a performance requirement of the product, we recommend that all sensors and instruments using these sensors are checked for response to gas before use.

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