Product Data Sheet

P/N:S+EOX

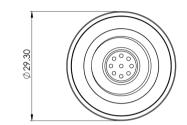
S+EOXOxygen Sensor (O₂)

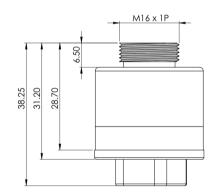
Introduction The S+EOX is a partial pressure O2 sensor suitable for use in Industrial applications

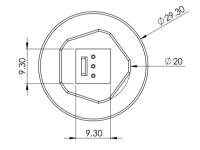
Key Features: Fast response, highly stable, 0-100% measurement range, on-board temperature compensation

Performance Characteristics		
Output signal	9-14mV in Air @STP	
Zero Current (uV)	< 0.20uV	
T90 Response Time	<10 seconds	
Signal in 100%O2	100%±1%O2	
Measurement Range	0 - 100% Oxygen	
Temperature Compensation (20-40°C) (5-40°C)	<0.5%O2 <1%O2	
Linearity	Linear	
Recommended Load Resistor	Min 10KOhms	

Environmental Details	
Temperature Range Continuous	-20°C to +50°C
Pressure Range	500 to 2000 mbar
Operating Humidity Range	0-99% non condensing







Important Note:

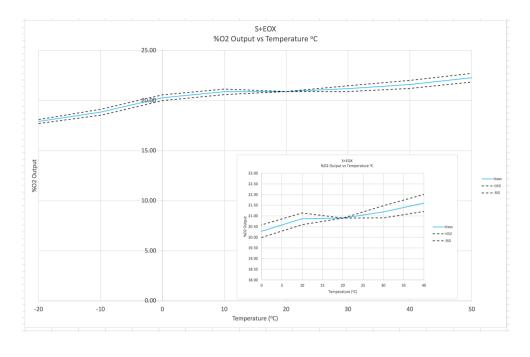
All performance data is based on conditions at 20°C, 50%RH and 1 atm, using DD Scientific recommended circuitry.

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S+EOX
Oxygen Sensor (O₂)

Lifetime Details		
Long Term Output Drift	<5% per annum	
Recommended Storage Temp	0°C to 20°C	
Expected Operating Life	1.6m%O2hrs in AIR STP	
Standard Warranty	24 months from date of dispatch	

Intrinsic Safety Data		
Maximum current in normal operation (pure O2)	0.01 A	
Maximum o/c Voltage (10 to 100% O2)	0.9 V	
Maximum s/c Current (10 to 100% O2)	0.5 A	



Cross Sensitivity Data

Toxic gases at TLV levels will have no cross-sensitivity effect on DD-Scientific oxygen sensors. At very high levels (i.e. percent levels), highly oxidising gases (e.g. ozone, chlorine) will interfere to the extent of their oxygen equivalent, but most other commonly occurring gases will have no effect.

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Acid Gases

IMPORTANT NOTE: Acid gases such as CO₂ and SO₂ will be absorbed by the electrolyte and tend to increase the flux of oxygen to the electrode. This gives an enhanced oxygen signal of approximately 0.3% of signal per 1% CO₂. DD-Scientific oxygen sensors are not suitable for continuous operation in concentrations of CO₂ above 25%.

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.

Every effort has been made to ensure the accuracy of this document at the time of printing. In accordance with the company's policy of continued product improvement

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products any early easily as the client of DD SCIENTIFIC Limited, we cannot give any warranty as to the relevance of these particulars to an
application. It is the clients' responsibility to carry out the necessary tests to determine the usefulness of the products and to ensure their safety of operation in a particular application. Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over

