Product Data Sheet



P/N: S+4OX	Performance Characteristics	
Miniature Oxygen	Output signal	0.10 ± 0.03 mA
Sensor	Pressure Coefficient	< 0.05% signal/mbar
Robust Design High Performance	Zero shift (-40°C to +50°C)	< ±12 ppm equivalent
Leading Reliability	T90 Response Time	< 25 seconds
	Measurement Range	0 - 25% Oxygen
Product Dimensions All dimensions in mm All tolerances ±0.15 mm	Maximum Overload	30% Oxygen
	Recommended Load Resistor	100 ohms
	Environmental	
Ø20 Ø20 Ø20 Ø145 Ø1.60 Pin Dia. Ø1.60 Pin Dia. Ø1.60 Pin Dia.	Temperature Range Continuous	-20ºC to +40ºC
	Temperature Range Intermittent	-40°C to +55°C
	Pressure Range	Atmospheric ± 10%
	Operating Humidity Range	0% to 99% RH non- condensing
	Lifetime	
	Long Term Output Drift	< 10% over operating life
	Recommended Storage Temp	0°C to 20°C
	Expected Operating Life	2 years in air
	Storage Life	6 months in original packaging
	Standard Warranty	24 months from date
Plastic location pin.		of dispatch
	Intrinsic Safety I	·
Plastic location pin.		·
Plastic location pin.	Intrinsic Safety I Maximum current in normal operation	Data
Plastic location pin.	Intrinsic Safety I Maximum current in normal operation (pure O ₂)	Data 0.01 A

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 dependant, and please contact DD Scientific for temperature performance other than 20°C.



Poisoning:

DD Scientific sensors are designed to operate in a wide range of harsh environments and conditions. However, it is important that exposure to high concentrations of solvent vapors is avoided, both during storage, fitting into instrument and operation. When using sensors on printed circuit boards (PCB's), degreasing agents should be used prior to the sensor being fitted.

Please note gluing or soldering direct to the pins of DD Scientific Ltd gas sensors will void warranty, please use PCB sockets when connecting DD Scientific sensors.

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

DD SCIENTIFIC Limited reserves the right to make product changes without notice. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. The data is given for guidance only. It does not constitute a specification or an offer for sale. The products are always subject to a program of improvement and testing which may result in some changes in the characteristics quoted. As the products may be used by the client in circumstances beyond the knowledge and control 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 time.