

SGX-AOX Oxygen sensor (0-100%) Datasheet

SGX-AOX YGEN SENSOR S/N: A 002841

Fast response | Sensor with on board temperature compensation | For ventilators

Quality, Safety, Responsibility





T: +48 797 420 003

E: sales.is@sgxsensortech.com www.sgxsensortech.com

Performance	

Output signal	8-13mV in Air @STP*	
Zero current (offset)	<0.1% O ₂	
T90 response time	< 5 seconds	
T99.5 response time	<50 sec	
Measurement Range	0-100% O ₂	
Linearity	Linear	
Temp. Compensation (0-40°C)	< 2% O ₂	
Recommended Load Resistor	min 10k Ohms	

* measured in standard temperature and pressure (20°C, 50%RH and 1atm)

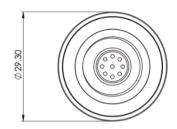
Operating Conditions		
Temperature Range	-20°C to +50°C	
Pressure Range	500 to 2000 mbar	
Operating Humidity Range	0% to 99% RH (non condensing)	

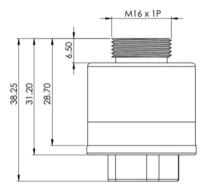
Lifetime		
Long Term Output Drift	<5% per annum	
Recommended Storage Temp	0°C to 20°C	
Expected Operating Life	375000% O ₂ hrs at 20°C	

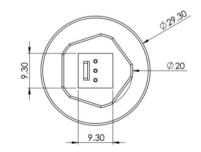


OUTLINE

All dimensions are in mm All tolerances are ±0.15mm







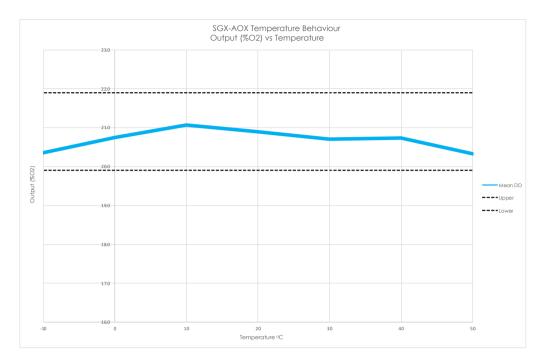
Intrinsic Safety Data	
Max current in normal operation (pure O ₂)	0.01 A
Max o/c Voltage (10 to 100% O ₂)	0.9 V
Max s/c Current (10 to 100% O ₂)	0.5 A



T: +48 797 420 003

E: sales.is@sgxsensortech.com www.sgxsensortech.com

Cross Sensitivity



Cross Sensitivity

Toxic gases at TLV levels will have no cross-sensitivity effect on SGX-AOX 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.

Warning:

By the nature of the technology used, any electrochemical gas sensor offered by SGX Europe Sp. z o.o. can potentially fail to meet specification without warning. SGX Europe Sp. z o.o. 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. SGX Europe Sp. z o.o 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 SGX Europe Sp. z o.o, 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.