

SGX-7OX Datasheet

32mm industrial oxygen sensor Application: Fixed Gas Detectors

PERFORMANCE

RangeZero Current (Offset) Output Signal in Air (see below) Linearity Response Time, t90 Maximum Overload Long-term Output Drift Recommended Load Resistor (see be	< 0.6 %vol O ₂ 170 to 230 μA Linear <15 s 30% Oxygen <5% per annum
Recommended Load Resistor (see be Warranty	,

OPERATING CONDITIONS

Temperature Range	
Operating Humidity 5 -	- 95% RH (non-condensing)
Pressure Range	800 mbar to 1200 mbar
Recommended Storage Tem	perature 0°C to 20°C
Expected Operating Life	>2 years in air

INTRINSIC SAFETY DATA

ACID GASES

IMPORTANT NOTE: Acid gases such as CO_2 and SO_2 will be absorbed by the electrolyte and tends to increase the flux of oxygen to the electrode. This gives an enhanced oxygen signal of approximately 0.3% of signal per 1%CO₂. The SGX-7OX sensors are not suitable for continuous operation in concentrations of CO_2 above 25%.

CROSS SENSITIVITY DATA

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

SENSOR OUTPUT

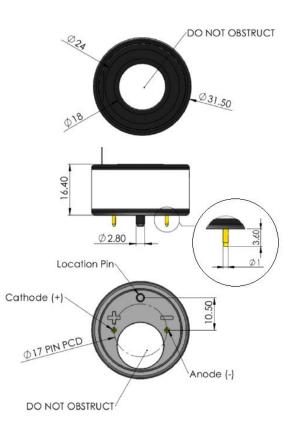
The output signal (in mA) is derived by measuring the voltage drop across a resistor placed across the sensor output pins. A value of 100 Ohms is the suggested value.

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OUTLINE All dimensions are in mm All tolerances are ±0.15mm





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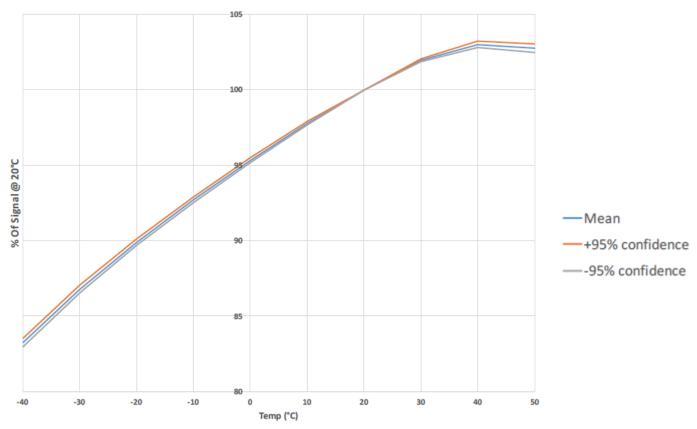
IMPORTANT NOTES

All performance is based on conditions at 20°C, 50% RH and 1 atm, using SGX recommended circuitry. Sensor performance is temperature dependant; please contact SGX for temperature performance other than 20°C. Do not solder to the connector pins as this may

damage the sensor and thereby invalidate the warranty. Details on recommended connector pins can be found in the Frequently Asked Questions within the Gas Sensor section of the SGX website.

POISONING

SGX 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 vapours is avoided during storage, fitting into instruments and operation. When using sensors on printed circuit boards (PCBs), degreasing agents should be used prior to the sensor being fitted.



Output Temperature Coefficient

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 limit over.

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