

SGX-4OX-ROHS Datasheet

Industrial Lead Free Oxygen Sensor

PERFORMANCE

Output signal	0.1 ± 0.03 mA / ppm
Zero Current (Offset)	<0.5% vol. O ₂ (typically <0.3% vol. O ₂)
T90 Response Time	< 10 seconds (typically <5sec)
Measurement Range	0 – 25% O ₂
Maximum Overload	30% O ₂
Linearity	S = K log _e (1/1-C)
Repeatability	< $\pm 2\%$ SO ₂ equivalent
Warm up time	Note 1
Electrical Bias Voltage	-600 ± 10mV

OPERATING CONDITIONS

Temperature Range	-40°C to +60°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH (continuous) 0% to 99% RH(short term)

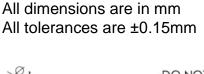
LIFETIME

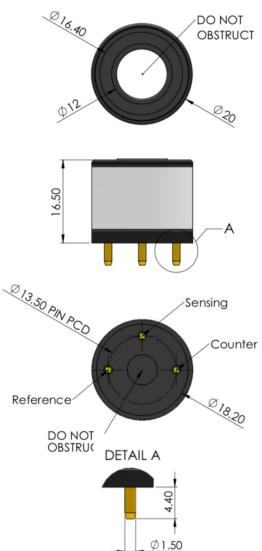
Long Term Output Drift	< 5% over operating life
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 60 months in air

SGX Europe Sp. Z o.o. T: +48 (0) 32 438 4778 Building 11 Ligocka St. 103, 40-568 Katowice, Poland

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

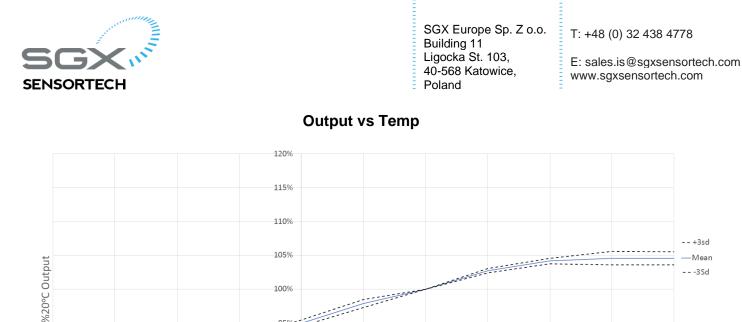
OUTLINE





INTRINSIC SAFETY DATA

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



100%

95%-

90%

85%

0

-10

IMPORTANT NOTES

-30

-20

-40

1) When bias is not applied to the sensor, it will become saturated with oxygen gas which is consumed when the bias is reapplied. This results in a settling time which can be as long as 15 minutes. During this time, the sensor may not meet all of the performance parameters provided in this datasheet.

10

Temp °C

20

30

40

50

- 2) In order to function correctly, the rear of the sensor must not be blocked and adequate venting must be available when the sensor isfitted to an analyser or detector.
- 3) Do not glue or solder to the connector pins as this may damage the sensor and thereby invalidate the warranty, please use PCB sockets.
- 4) Details on recommended connector pins can be found in the Frequently Asked Questions within the Gas Sensor section of the SGX website.
- 5) All performance specifications are based upon the following environmental conditions: 20°C, 50% relative humidity, 101kPa.
- 6) The device is designed to be RoHS compliant.
- 7) Poisoning 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, both during storage, fitting into instrument and operation.
- 8) When using sensors on printed circuit boards (PCB's), degreasing agents should be used prior to the sensor being fitted.

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.

- - -3Sd

60

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Air Quality Sensors category:

Click to view products by Amphenol manufacturer:

Other Similar products are found below :

 GMS-MSTH2.S.V.3
 MO86551
 076074 01
 DE800.A.1
 MF010-2-LC1
 MF020-2-LC3
 KGZ10-5PIN
 GMS10SENSORS
 IR25TT

 208280-0001
 IR11BD
 IR11GM
 IR12GM
 IR21BD
 GMS10-18C
 KGZ12
 S-300L-3V-5000-SLEEP-UART
 MP7227-TC
 SGPC3-TR-2.5KS

 T6713-6H
 POLOLU-1482
 3.000.475
 3.000.496
 HPMA115S0-XXX
 SGPC3-2.5k
 T3032-2-10K-24-P
 VQ6MB
 INIR-CD-5%
 VQ23TB

 IR11GJ
 VQ31MB
 IR11BR
 GP2Y1026AU0F
 VQ549ZD
 MHM501-00
 MHM500-00A
 MHM305-01
 MICS-4514
 VQ548ZD-S
 SEN-09403

 IR15TT
 MICS-5524
 MICS-5914
 MICS-2714
 INIR-ME-100%
 T8100-D
 VQ21TB
 IR21EJ
 VQ603/2