

# SGX-4CO Datasheet

# Industrial Carbon Monoxide (CO) Sensor

#### PERFORMANCE

Range	0 – 2000 ppm	
Output Signal	70 ± 20nA / ppm	
Typical Baseline Range	±2 ppm CO equivalent	
Filter Capacity	>20 000 ppm Hours	
T90 Response Time	< 30 sec	
Maximum Overload	5000 ppm	
Linearity	Linear up to 2000ppm	
Repeatibility	< ±2 CO equivalent	
Recommended Load Resistor	10 ohms	
<b>Resolution</b> (depend on electronic)	< 0.5 ppm typical	

### **OPERATING CONDITIONS**

Temperature Range	-30°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH

#### LIFETIME

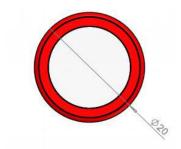
Long Term Output Drift	< 5% per annum	I
Recommended Storage Temp	0°C to 20°C	1
Expected Operating Life	> 24 months in air	I

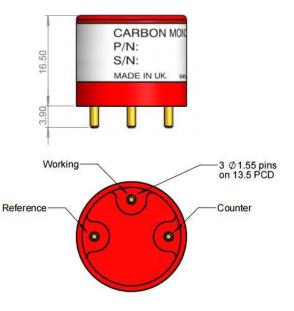
SGX Europe Sp. Z o.o. T: +48 (0) 32 438 4778 Building 11 Ligocka St. 103, 40-568 Katowice, Poland

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

# OUTLINE

All dimensions are in mm All tolerances are ±0.15mm





### **INTRINSIC SAFETY DATA**

Max at 2000ppm	0.3 mA
Max o/c Voltage	1.3 V
Max s/c Current	<1.0 A



SGX Europe Sp. Z o.o. Building 11 Ligocka St. 103, 40-568 Katowice, Poland

T: +48 (0) 32 438 4778

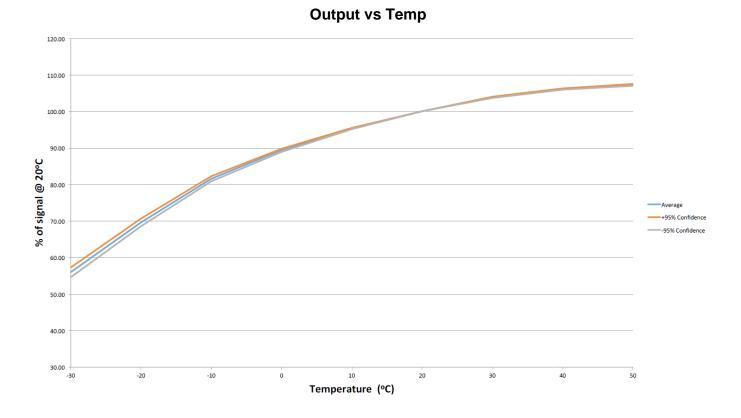
Ξ

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

## **CROSS – SENSITIVITY DATA**

GAS	CONCENTRATION	SGX-4CO
Sulphur Dioxide	20ppm	0ppm
Hydrogen Sulphide	50ppm	0ppm
Hydrogen	100ppm	< 30ppm
Nitric Oxide	50ppm	< 10ppm
Ethanol	200ppm	< 1ppm
Ammonia	50ppm	0ppm
Chlorine	15ppm	<1ppm
Ethylene	100ppm	96ppm
Acetylene	100ppm	90ppm

\* See Important Notes





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

#### **IMPORTANT NOTES**

- 1) Do not glue or solder to the connector pins as this may damage the sensor and thereby invalidate the warranty, please use PSB sockets.
- 2) Details on recommended connector pins can be found in the Frequently Asked Questions within the Gas Sensor section of the SGX website.
- 3) All performance specifications are based upon the following environmental conditions: 20°C, 50% relative humidity, 101kPa.
- 4) Cross Sensitivity Data is for information only. Calibration is recommended with target gas as the accuracy of calibration and measurement cannot be ensured.
- 5) The cross sensitivities are including but not limited to the gases stated in the table. It may respond to other gases.
- 6) The cross sensitivities may fluctuate between ± 30% and may differ from batch to batch or across sensor's life time.
- The device is designed to be RoHS compliant.
- 8) 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.
- 9) 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.

# **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
 MO86571
 MO86561
 076074 01
 DE800.A.1
 MF010-2-LC1
 MF020-2-LC3
 KGZ10-5PIN
 GMS10SENSORS
 IR25TT

 208280-0001
 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
 3.000.497
 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