

SGX

SENSORTECH

An Amphenol Company



SGX-SureCO

Carbon Monoxide sensors Datasheet



Quality, Safety, Responsibility

Technical Specifications

Performance

Sensitivity	45 ± 15 nA/ppm
Measurement Range	0 – 1000 ppm
Response Time	T90 < 30s
Maximum Overload	2000 ppm
Repeatability	< ±5% CO equivalent
Long-term output drift	< 5% per Annum
Linearity	Within ± 5%
Recommended Load Resistor	10 Ω
Warranty	60 months from date of dispatch

Operating Conditions

Temperature Range	-30°C to +50°C
Pressure Range	800 to 1200 hPA
Operating Humidity Range	15-95% RH
Storage Temperature	0 to 20°C
Expected Lifetime	> 60 months

Intrinsic safety data

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

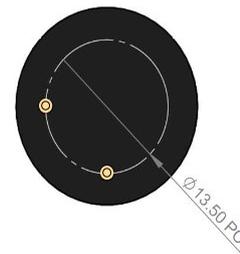
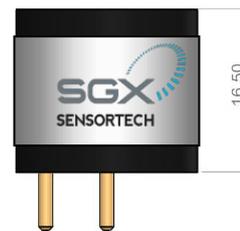
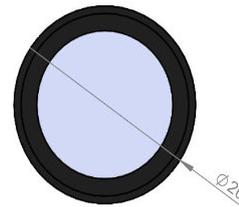
Cross-sensitivity data

Gas	CONC.	SGX-SureCO
Hydrogen Sulfide	25 ppm	0 ppm
Sulfur Dioxide	20 ppm	<0.5 ppm
Hydrogen	100 ppm	<20 ppm
Nitric Oxide	50 ppm	<10 ppm
Ethanol	2000 ppm	<5 ppm
Iso-Propanol	200 ppm	0 ppm
Chlorine	2 ppm	<0.5 ppm
Acetone	1000 ppm	0 ppm
Acetylene	40 ppm	80 ppm

Note: This table is for reference only. Calibration should be carried out with the actual gas at a known concentration.

Product dimensions

All dimensions in mm
All tolerances ±0.15 mm



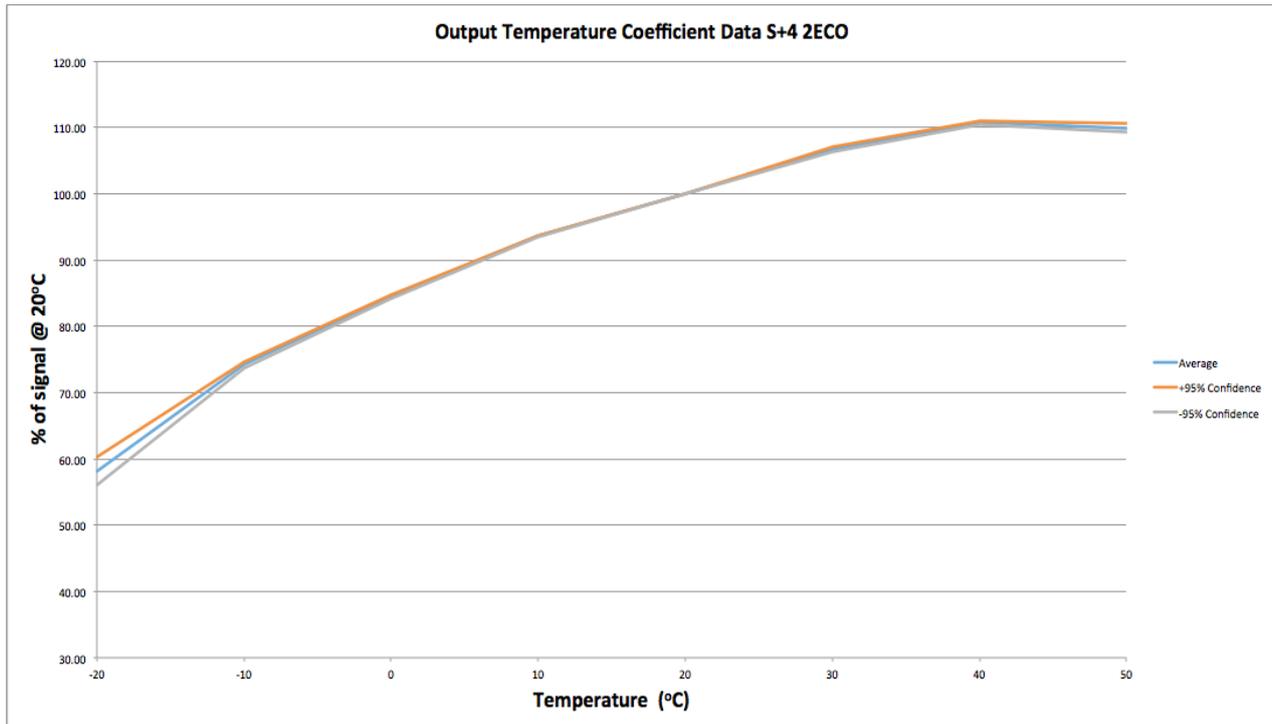
Key applications

- Domestic CO detectors
- Air Quality monitors

Important Notes

- All performance is based on conditions at 20°C, 50% RH and 1 atm, flow rate >150qcm/min, 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.

Temperature Curve



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, both 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.

DISCLAIMER:

SGX Europe Sp. z o.o. reserves the right to change design features and specifications without prior notification. We do not accept any legal responsibility for customer applications of our sensors. SGX Europe Sp. z o.o. accepts no liability for any consequential losses, injury or damage resulting from the use of this document, the information contained within or from any omissions or errors herein. This document does not constitute an offer for sale and the data contained is for guidance only and may not be taken as warranty. Any use of the given data must be assessed and determined by the user thereof to be in accordance with federal, state and local laws and regulations. All specifications outlined are subject to change without notice.

SGX Europe Sp. z o.o. 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 to be avoided, both 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. SGX Europe Sp. z o.o. makes every effort to ensure the reliability of its products. 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.

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