SGX-SureCO
2 Electrode Carbon Monoxide Sensor

Application : Domestic CO detectors
Air Quality monitors

PERFORMANCE

Range……..…….....0 – 1000 ppm
Output Signal.....45 ± 15 nA / ppm
Repeatability……..…< ±5% CO equivalent
Linearity..……..……..……....Within ± 5%
Response time, t90……..…….. < 30 Seconds
Maximum Overload……..……....2000 ppm
Long-term output drift…….....< 5% per Annum
Recommended Load Resistor…..……..10 Ohms
Warranty……..60 months from date of dispatch

OPERATING CONDITIONS

Temperature Range……...…...…….-30ºC to +50ºC
Operating Humidity……..15% to 90% RH
Pressure Range……..……...800 to 1200 mbar
Recommended Storage Temperature…….0ºC to 20ºC
Expected Operating Life……> 6 years in normal use

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

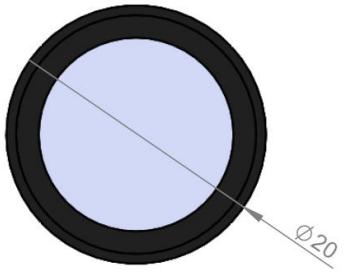
Gas	CONC.	SGX-SureCO
Hydrogen Sulfide	25 ppm	0 ppm
Sulfur Dioxide	20 ppm	<0.5 ppm
Hydrogen	100 ppm	<20 ppm
Nitric Oxide	50 ppm	<10 ppm
Ethanol	2000 ppm	<5 ppm
Iso-Propanol	200 ppm	0 ppm
Chlorine	2 ppm	<0.5 ppm
Acetone	1000 ppm	0 ppm
Acetylene	40 ppm	80 ppm

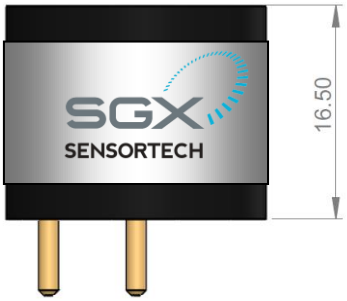
Note: This table is for reference only. Calibration should be carried out with the actual gas at a known concentration.

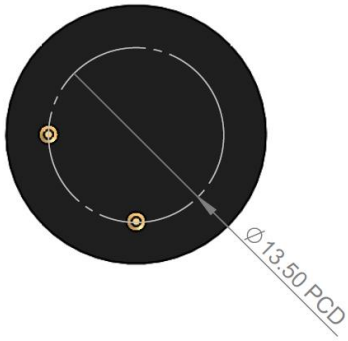
This device is designed to be RoHS compliant.

PRODUCT DIMENSIONS

All dimensions in mm
All tolerances ±0.15 mm







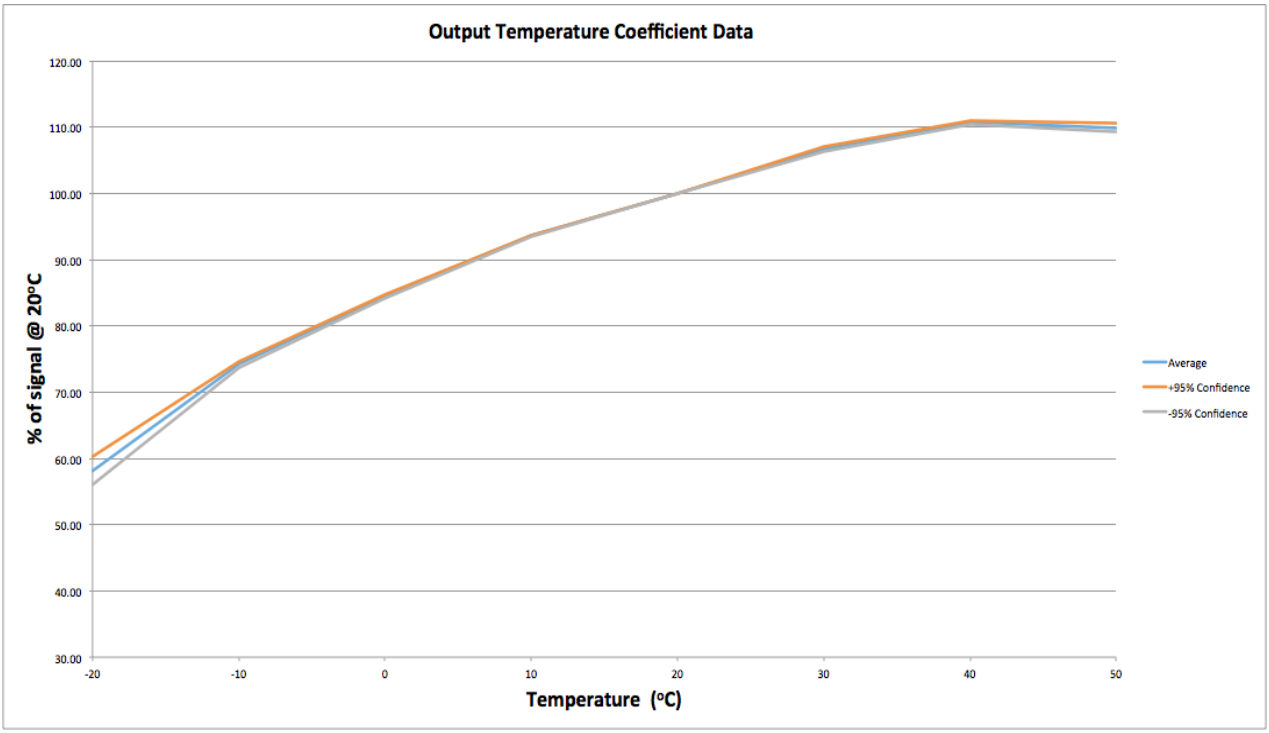
IMPORTANT NOTES

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 I avoid, 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.