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SGX-4CO

Industrial Carbon Monoxide Sensor

(Application : Portable Gas Detectors)

PERFORMANCE

Range	0 – 1000 ppm
Output Signal	70 ± 25 nA/ppm
Zero Shift (-40°C to +50°C)	< ±12 ppm equivalent
Linearity	Within ±5%
Response time (T_{90})	<30 s
Maximum Overload	2000 ppm
Long-term output drift	<20% per annum
Recommended Load Resistor	10 ohms
Warranty	2 years
Bias	No Bias

OPERATING CONDITIONS

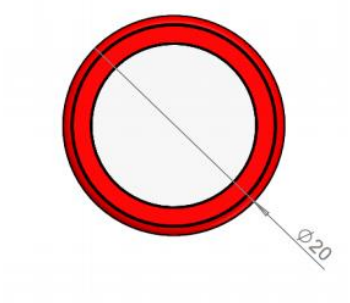
Temperature Range	-30°C to +50°C
Operating Humidity	15 – 90% RH (non-condensing)
Pressure range	900 to 1100 mbar
Operating Circuit	See Application Note 2
Recommended Storage Temperature	0°C to 20°C
Storage life	6 months in original packing (0 – 25°C)

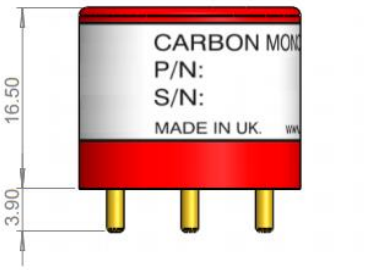
INTRINSIC SAFETY DATA

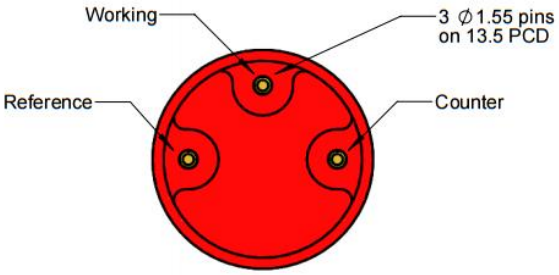
Maximum at 2000 ppm	0.3 mA
Maximum o/c Voltage	1.3 V
Maximum s/c Current	<1.0 A

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.
- This device is designed to be RoHS compliant.

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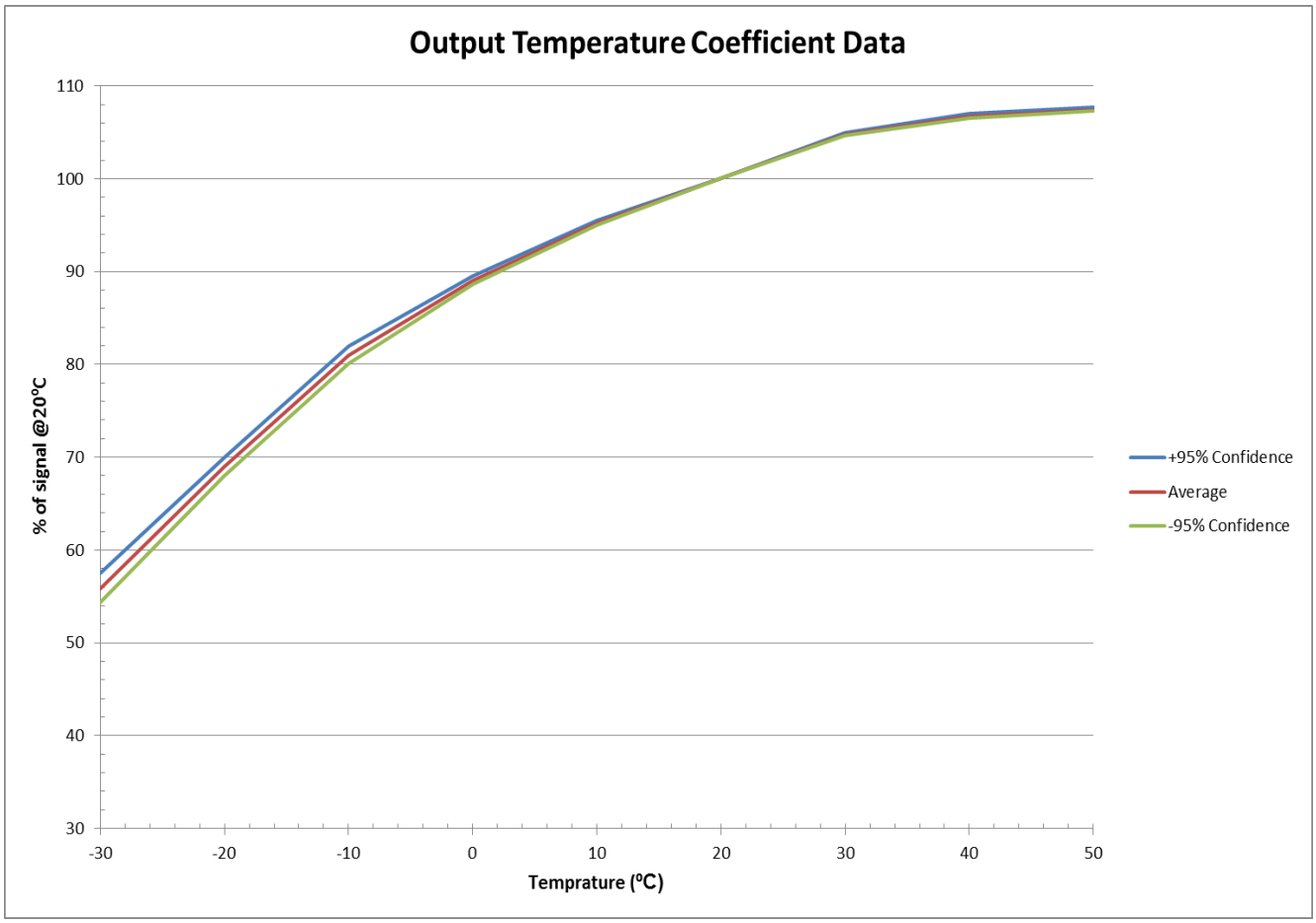
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CROSS-SENSITIVITY DATA

GAS	CONCENTRATION	SGX-4CO
Hydrogen Sulfide	20 ppm	<2 ppm
Sulphur Dioxide	20 ppm	<2 ppm
Hydrogen	100 ppm	<40 ppm
Nitric Oxide	35 ppm	<5 ppm
Ethanol	200 ppm	0 ppm
Ammonia	50 ppm	0 ppm
Chlorine	0.5 ppm	0 ppm

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



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.

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