

# 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 <sub>90</sub> )	<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

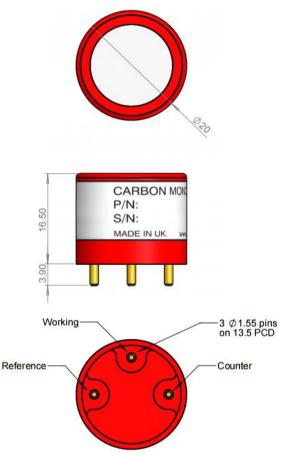
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## **PRODUCT DIMENSIONS**

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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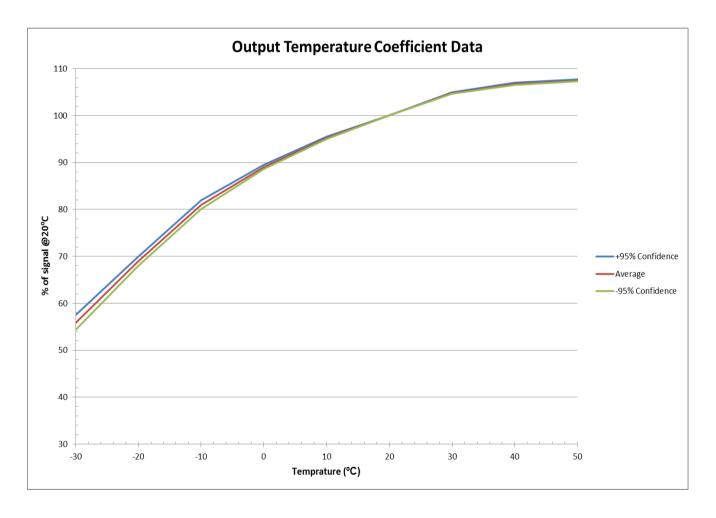
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### **CROSS-SENSITIVITY DATA**

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.