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SGX-7CO

Industrial Carbon Monoxide Sensor

(Application: Fixed Gas Detectors)

PERFORMANCE

PERFORMANCE		
Range	0 – 1000 ppm	
Output Signal	100 ± 20 nA/ppm	
Typical Baseline Range (pure air)	<±2 ppm CO equivalent	
Linearity	Linear	
Response time (T ₉₀)	<30 s	
Maximum Overload	2000 ppm	
Long-Term Output Drift	<5% per annum	
Recommended Load Resistor	10 ohms	
Repeatability	<±1% CO equivalent	
Resolution	< 0.5 ppm	
Warranty	2 years	
Bias	No Bias	

OPERATING CONDITIONS

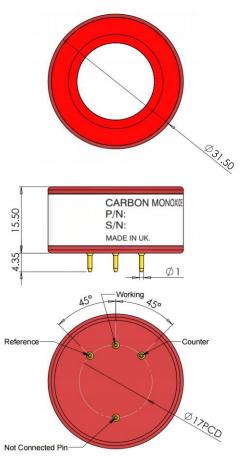
OI ENATING CONDITIONS		
Temperature Range	-30°C to +50°C	
Operating Humidity	15 – 90% RH (non-Condensing)	
Pressure range	800 to 1200 mbar	
Operating Circuit	See Application Note 2	
Recommended Storage Temperature	0°C to 20°C	
Expected Operating Life	> 24 Months in Air	

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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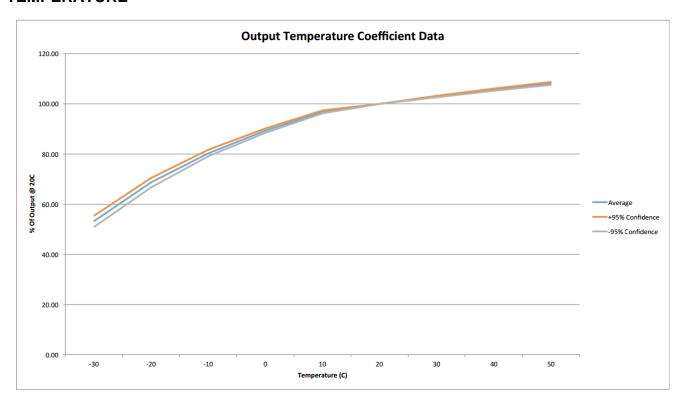
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CROSS-SENSITIVITY DATA

GAS	CONCENTRATION	SGX-7CO
Hydrogen Sulfide	15 ppm	<0.1 ppm
Sulfur Dioxide	5 ppm	0 ppm
Nitrogen Dioxide	5 ppm	-0.5 ppm
Nitric Oxide	35 ppm	<7 ppm
Hydrogen	100 ppm	<60 ppm
Chlorine	1 ppm	0 ppm
Ethylene	100 ppm	<90 ppm

Note: This table is for reference only and are typical values. Cross Sensitivities may not be linear and should not be scaled. Calibration should be carried out with the actual gas at a known concentration.

TEMPERATURE



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 instrument and operation. When using sensors on printed circuit boards (PCBs), degreasing agents should be used prior to the sensor being fitted.

Mouser Electronics

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