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SGX-7CO Industrial Carbon Monoxide Sensor

Application : Fixed Gas Detectors

PERFORMANCE

Measurement Range	0 – 1000 ppm
Zero Current (in air) <±2 ppr	n CO equivalent
Output Signal 10	0 ± 20 nA / ppm
Linearity	Linear
Repeatability < ±1%	6 CO equivalent
Response time, t90	<30 s
Maximum Overload	2000 ppm
Long-term Output Drift	<5% per annum
Recommended Load Resistor	10 ohms
Warranty	1 year
Resolution (Electronics dependent) <	

OPERATING CONDITIONS

INTRINSIC SAFETY DATA

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

This device is designed to be RoHS compliant.

Cross-Sensitivity Data		
GAS	CONC.	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. Calibration should be carried out with the actual gas at a known concentration.

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 is avoided 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.