SGX SENSORTECH

An Amphenol Company

SGX-1CO-1000

Carbon Monoxide Sensor

Datasheet

Quality, Safety, Responsibility

SGX SENSORTECH
An Amphenol Company

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Technical Specifications

Performance

Sensitivity	50 ± 20 nA/ppm
Measurement Range	0 – 1000 ppm
Zero Current	± 5 nA
Maximum Overload	2000 ppm
Response Time	T90 < 30s
Repeatability	2%
Lower Detectable Limit (LDL)	≤ 0.05 ppm
Linear Range	up to1500 ppm
Resolution (Electronics dependent)	< 0.5ppm typical

Environmental Details

Temperature Range	-20 to +50°C
Pressure Range	0.9 to 1.1 atm
Operating Humidity Range	15-90% RH (Continuous) 0-99% (intermittent)

Lifetime Details

Long-Term Drift	< 5 % per annum
Expected Operating Life	> 7 years in air
Recommended Storage Temp	0-20°C
Warranty	5 years

Intrinsic Safety Data

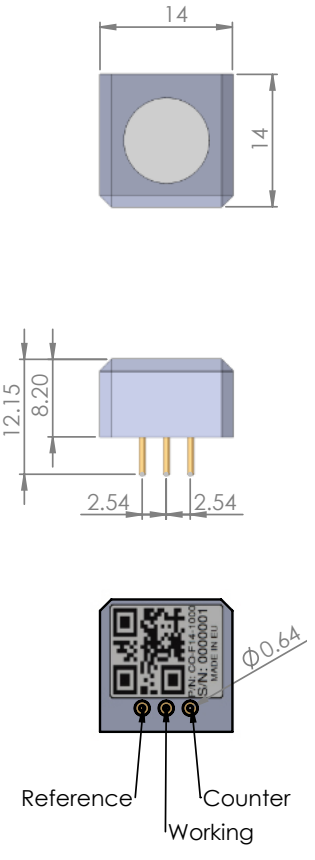
Maximum at 2000 ppm	0.3 mA
Maximum o/c Voltage	1.3 V
Maximum s/c Current	< 1.0 A

Features

- Small size
- High stability
- High selectivity
- High sensitivity
- Fast response and recovery
- Excellent sensitivity at low temperatures

Key Application

- Fire detection,
- Residential,
- Air quality



Product Dimensions
All dimensions in mm

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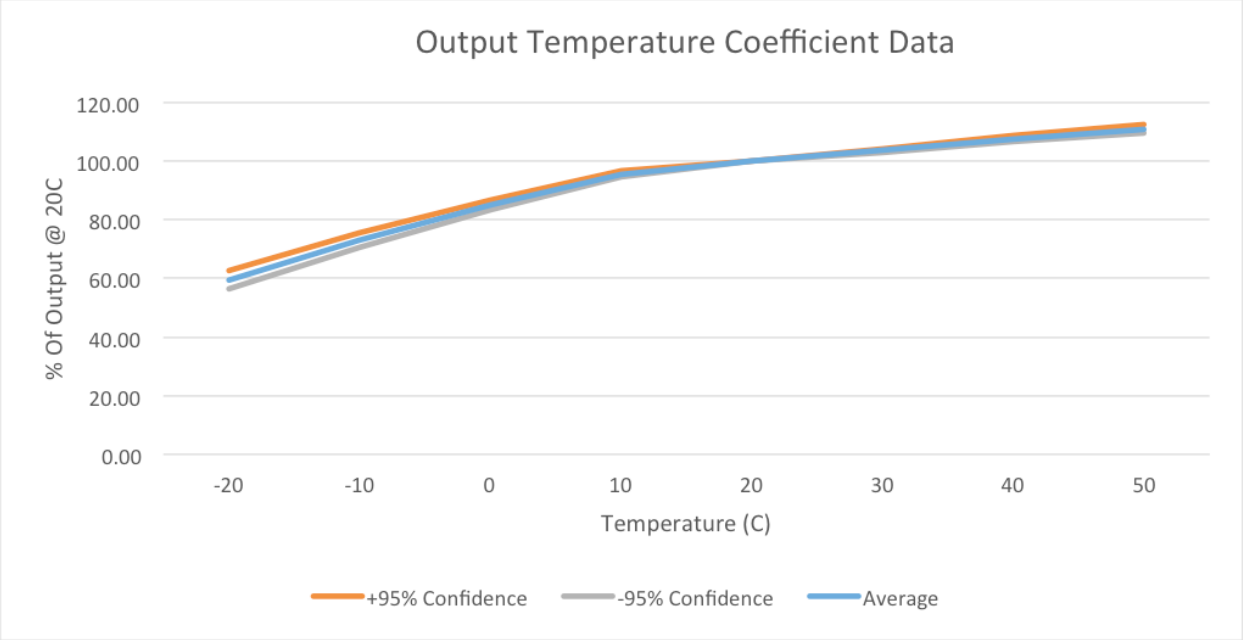
Cross Sensitivity

Gas	Concentration	SGX-1CO-1000
Hydrogen Sulphide	50 ppm	0 ppm
Sulphur dioxide	20 ppm	0 ppm
Hydrogen	100 ppm	40 ppm
Nitric Oxide	50 ppm	0 ppm
Ethanol	200 ppm	<2 ppm
Ammonia	50 ppm	0 ppm
Chlorine	15 ppm	0 ppm
Ethylene	100 ppm	0 ppm

Temperature Curve



Poisoning

SGX Sensortech 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 vapors is avoided, both during storage, fitting into instrument and operation.
When using sensors on printed circuit boards (PCB's), degreasing agents should be used prior to the sensor being fitted.