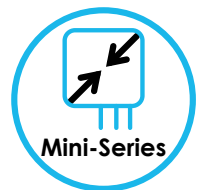




SENORTECH

An Amphenol Company



SGX-CO-Mini Carbon Monoxide sensor Datasheet

The Mini-series Electrochemical sensors from SGX Sensortech, with a housing dimension of just 8.3x14.4mm offer the smallest package available. A 75% reduction vs the popular SGX-4-series sensors. It gives customers the opportunity to reduce the size of instrument packages. The sensors offer fast response & recovery, high stability and have a 3-pin configuration (Counter, Reference and Working electrodes).



Quality, Safety, Responsibility

PERFORMANCE

Nominal Range	0 - 1000
Maximum Overload	2000
Output signal	40 ± 15 nA / ppm
Typical Baseline Range (pure air)	± 3 ppm CO equivalent
Response Time (T90)	< 30 s
Linearity	Linear up to 1000 ppm
Repeatability	< ±2% CO equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 0.5 ppm typical
Filter Capacity	> 20000 ppm hours

OPERATING CONDITIONS

Temperature Range	-30°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range (non-condensing)	15% to 90% RH

LIFETIME

Long Time Output Drift	< 5% over operating life
Storage Temp	0°C to 20°C
Expected Operating Life	> 24 months in air

INTRINSIC SAFETY DATA

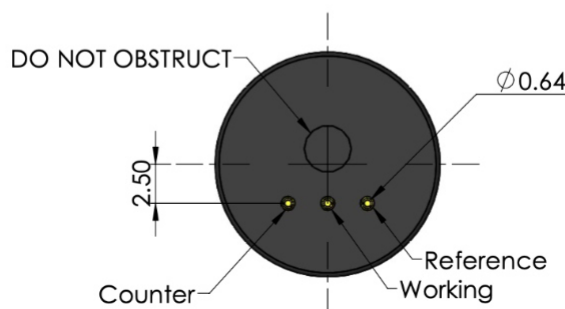
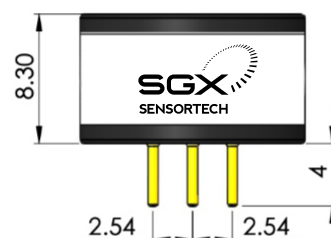
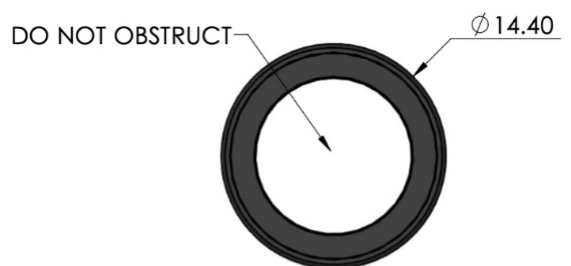
Max. at 2000 ppm	0.3 mA
Max. O/C Voltage	1.3 V
Max. S/C Current	<1.0 A

Features

- High stability
- Fast response and recovery
- Robust environmental stability
- Low-profile package
- Interchangeable with 4-series

Key Applications

- Industrial Safety
- Industrial General
- HVAC
- Food & Beverage



Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm

CROSS SENSITIVITY

Gas	Test Concentration	Sensor Reading
Hydrogen Sulphide	25 ppm	0 ppm
Sulphur dioxide	20 ppm	0 ppm
Hydrogen	100 ppm	< 30 ppm
Nitric Oxide	50 ppm	<15 ppm
Ethanol	200 ppm	<1 ppm
Ammonia	50 ppm	0 ppm
Chlorine	15 ppm	0 ppm

TEMPERATURE DATA

