

SGX Europe Sp. z o.o. Building 11 Ligocka St. 103, 40-568 Katowice, Poland

T: +48 (0) 32 438 4778

E: sales.is@sgxsensortech.com www.sgxsensortech.com

SGX-4CO

Industrial Carbon Monoxide Sensor

(Application : Portable Gas Detectors)

PERFORMANCE

| 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 ₉₀) | <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

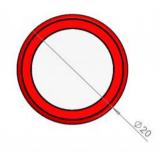
| OFERATING CONDITIONS | | |
|---------------------------------|---|--|
| Temperature Range | -30°C to +50°C | |
| Operating Humidity | 15 – 90% RH (non-condensing) | |
| Pressure range | 900 to 1100 mbar | |
| Operating Circuit | See Application Note 2 | |
| Recommended Storage Temperature | 0°C to 20°C | |
| Storage life | 6 months in original packing (0 – 25°C) | |

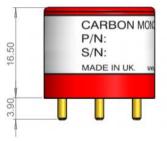
INTRINSIC SAFETY DATA

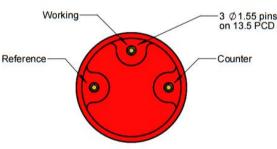
| Maximum at 2000 ppm | 0.3 mA |
|---------------------|--------|
| Maximum o/c Voltage | 1.3 V |
| Maximum s/c Current | <1.0 A |

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.

Whilst SGX has taken care to ensure the accuracy of the information contained herein it accepts no responsibility for the consequences of any use thereof and also reserves the right to change the specification of goods without notice. SGX accepts no liability beyond the set out in its standard conditions of sale in respect of infringement of third party patents arising from the use of SGX products in accordance with information contained herein.

In case of modification of the product, SGX disclaims all liability.

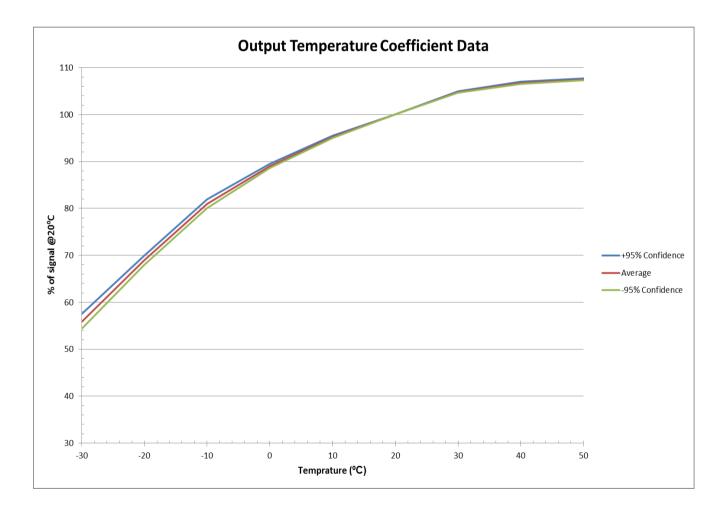




CROSS-SENSITIVITY DATA

| 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.