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SGX-4CO

Industrial Carbon Monoxide Sensor

(Application : Portable Gas Detectors)

PERFORMANCE

| I LINI ONWANCE | | |
|----------------------------------|----------------------|--|
| 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

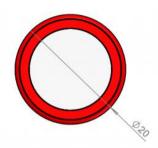
| OI ENATING CONDITIONS | | |
|------------------------------------|---|--|
| Temperature Range | -30°C to +50°C | |
| Operating Humidity | 15 – 90% RH (non-condensing) | |
| Pressure range | 900 to 1100 mbar | |
| Operating Circuit | See Application Note 2 | |
| Recommended Storage Temperature | 0°C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

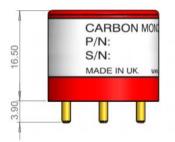
INTRINSIC SAFETY DATA

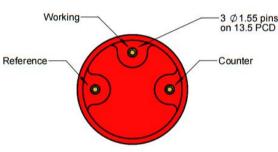
| Maximum at 2000 ppm | 0.3 mA |
|---------------------|--------|
| Maximum o/c Voltage | 1.3 V |
| Maximum s/c Current | <1.0 A |

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.

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

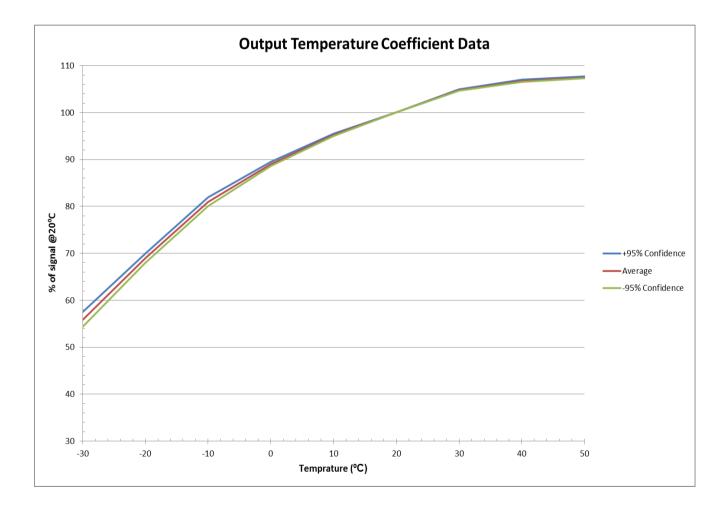




CROSS-SENSITIVITY DATA

| 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.

Mouser Electronics

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 $\frac{\text{Amphenol}}{\text{SGX-4CO}}$