

SGX-4NO2

Premium Industrial NO₂ Sensor

Application: Fixed and Portable Gas Detectors

PERFORMANCE

0 – 30 ppm
600±150 nA / ppm
±0.2ppm NO ₂
Linear
<30 s
200 ppm
<20% per annum
10 ohms
2%NO2 equivalent
2 years
0.1 ppm typical
0V (no bias)

OPERATING CONDITIONS

Temperature Range	30 to +50°C
Operating Humidity15 – 9	0% RH (non-condensing)
Pressure Range	800 to 1200 mbar
Operating Circuit see Elec	trochemical Toxic Sensor
	Application Note 2
Recommended Storage Temp	perature 0°C to 20°C
Storage Life 6 months in or	riginal packing (0 - 20°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

CROSS-SENSITIVITY DATA

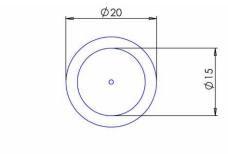
Gas	CONC.	SGX-4NO2
Carbon Monoxide	300 ppm	0 ppm
Sulphur dioxide	20 ppm	0 ppm
Hydrogen	200 ppm	0 ppm
Nitric Oxide	50 ppm	<-1 ppm
Ammonia	50 ppm	0 ppm
Chlorine	1 ppm	0.5 ppm
Hydrogen Sulphide	15 ppm	<1 ppm
Carbon Dioxide	5000 ppm	0 ppm

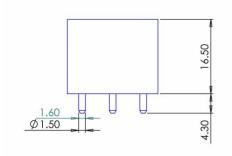
Note: This table is for reference only. Calibration should be carried out with the actual gas at a known concentration.

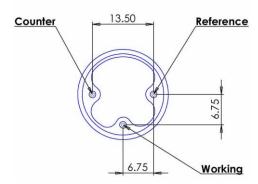
This device is designed to be RoHS compliant.

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.

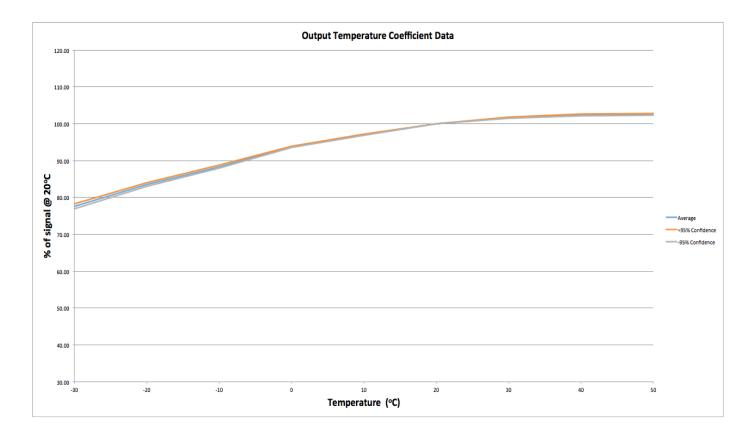
Sensor performance is temperature dependant. Please contact SGX for temperature performance other than 20°C.

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.

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



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