

PERFORMANCE

Range 0 – 50 ppm
 Typical Baseline Range (pure air) <±8 ppm equivalent
 Output Signal 120 ± 50nA/ppm
 Zero Shift (-40°C to +50°C)..... < ±3 ppm equivalent
 Linearity within ±2%
 Response Time, t90 <90 s
 Maximum Overload 500 ppm
 Long-term Output Drift <5% per annum
 Recommended Load Resistor 10 ohms
 Repeatability < ±10% of signal
 Bias voltage +300 mV
 Warranty 1 year

OPERATING CONDITIONS

Temperature Range -20 to +50°C
 Operating Humidity ... 5 – 90% RH (non-condensing)
 Pressure Range Atmospheric ±10%
 Operating Circuit see Electrochemical Toxic Sensor Application Note
 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

CROSS-SENSITIVITY DATA

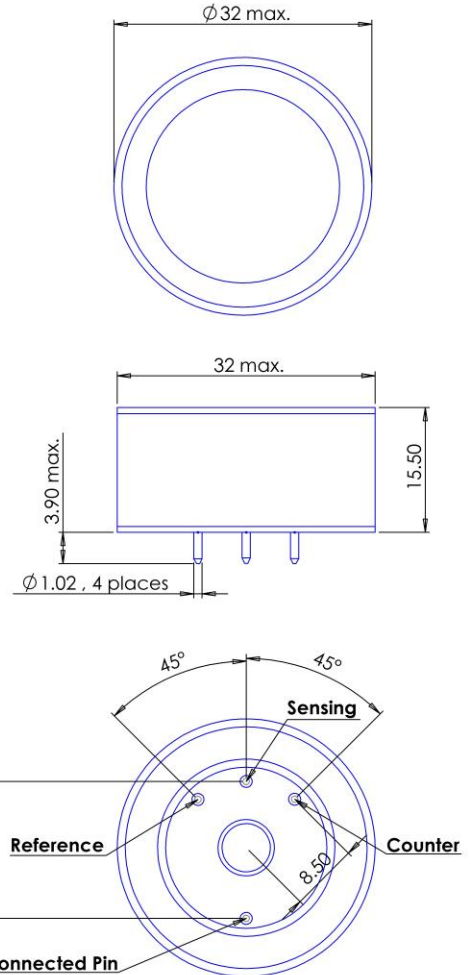
Gas	CONC.	SGX-7NH3
Hydrogen Sulphide	15 ppm	<30 ppm
Sulphur Dioxide	5 ppm	<1 ppm
Hydrogen	100 ppm	<5 ppm
Nitric Oxide	35 ppm	<7 ppm
Carbon Monoxide	300 ppm	<9 ppm

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



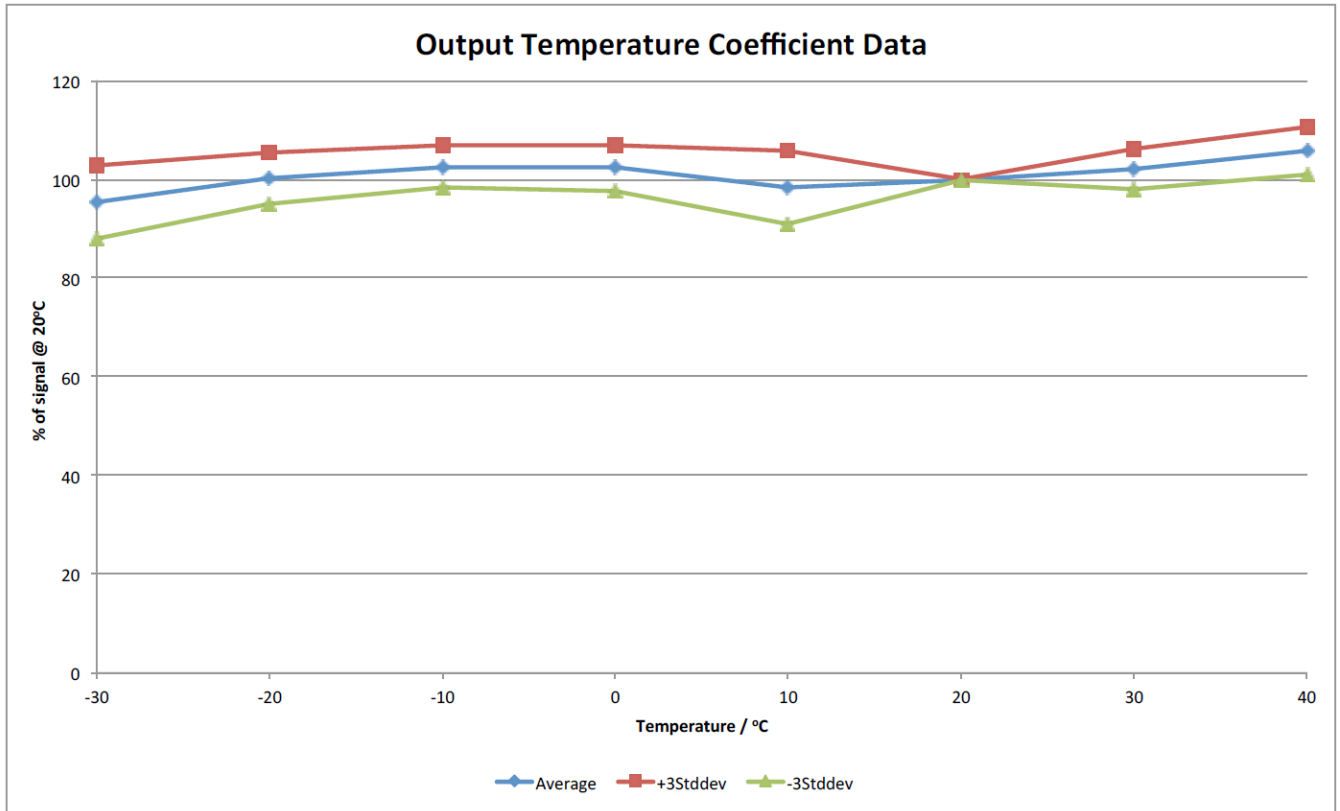
IMPORTANT NOTES

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.



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 instrument and operation. When using sensors on printed circuit boards (PCBs), degreasing agents should be used prior to the sensor being fitted.