

PERFORMANCE

Range 0 - 1000 ppm
Maximum overload..... 2000 ppm
Sensitivity 10 - 30 nA/ppm H₂
Zero in air at 20 °C..... <±20 ppm H₂
Resolution 10 ppm H₂
Linearity linear across range
Response time, t₉₀ <70 s
Long-term output drift..... <2% signal/month
Warranty 2 years

OPERATING CONDITIONS

Temperature range -20 to +50 °C
Operating humidity 15 - 90% RH (non-condensing)
Pressure range 90 - 110 kPa (nominal)
Operating circuit..... see Electrochemical Toxic Sensor Application Note
Applied potential 0 V
Storage life..... 6 months in original packaging (0 - 25 °C)

PHYSICAL CHARACTERISTICS

Label colour silver
Weight..... 5 g approx.
Dimensions see outline

This device is designed to be RoHS compliant.

CROSS-SENSITIVITY DATA

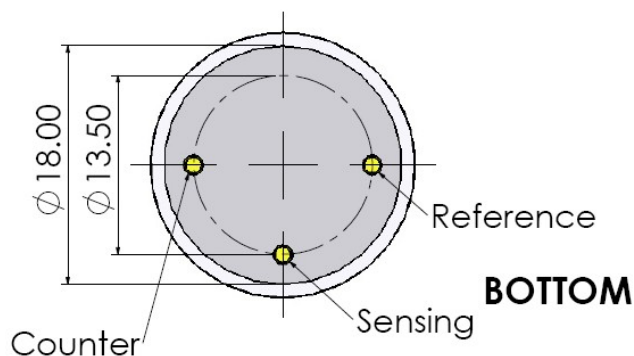
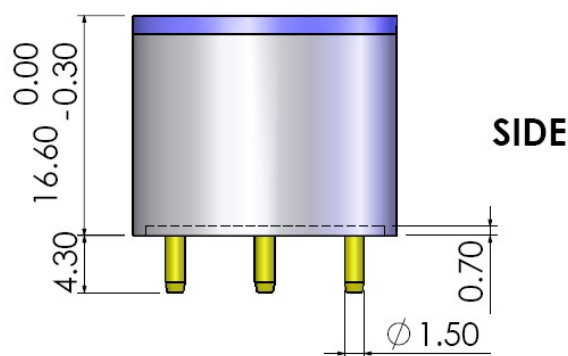
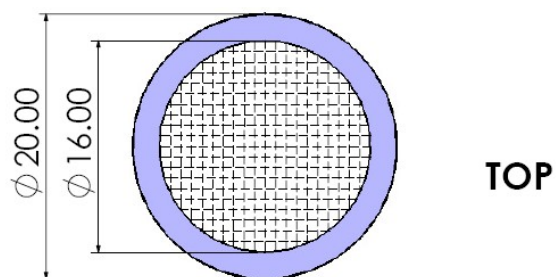
| GAS | Concentration (ppm) | Sensor Response (As ppm H ₂) |
|------------------|---------------------|--|
| Carbon Monoxide | 50 | 200 |
| Hydrogen Sulfide | 24 | 0 |
| Sulfur Dioxide | 5 | 0 |
| Nitric Oxide | 35 | <10 |
| Nitrogen Dioxide | 5 | 0 |
| Ethene | 100 | 80 |
| Chlorine | 10 | 0 |

Important Note

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.

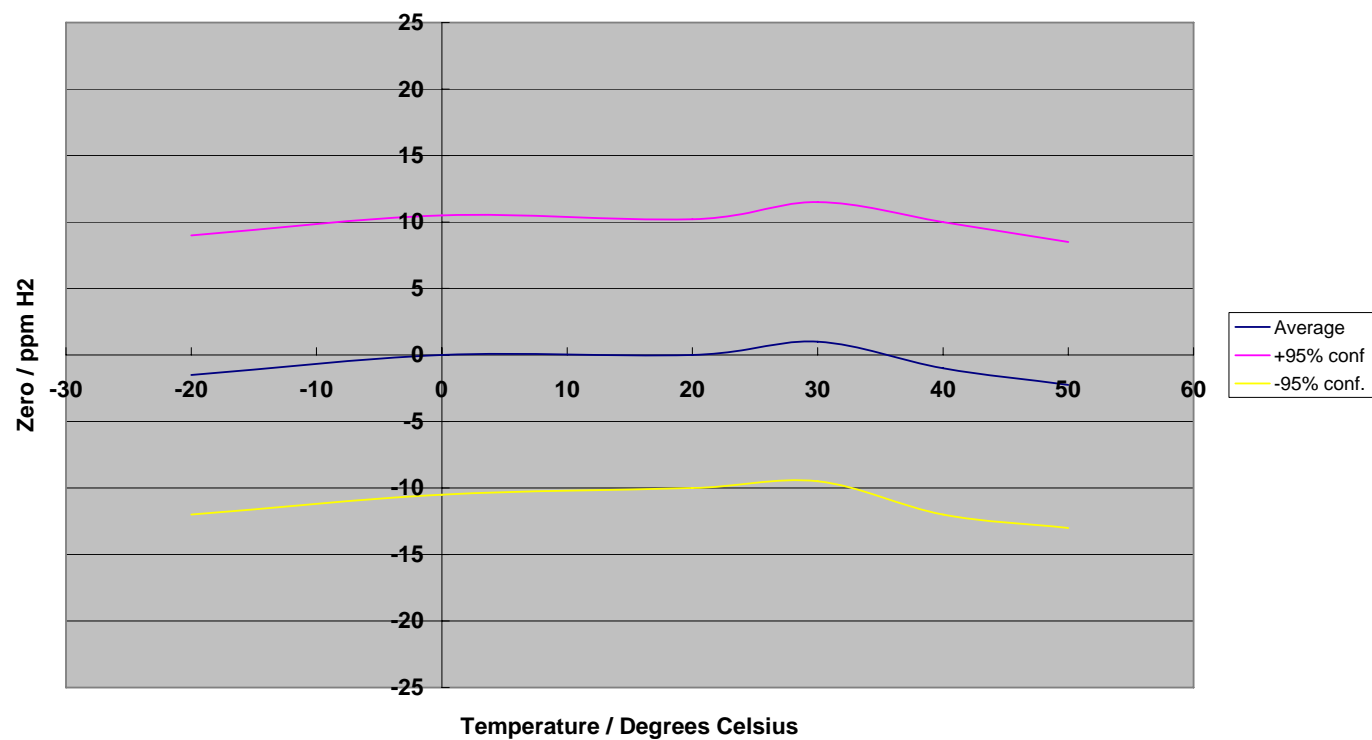
OUTLINE



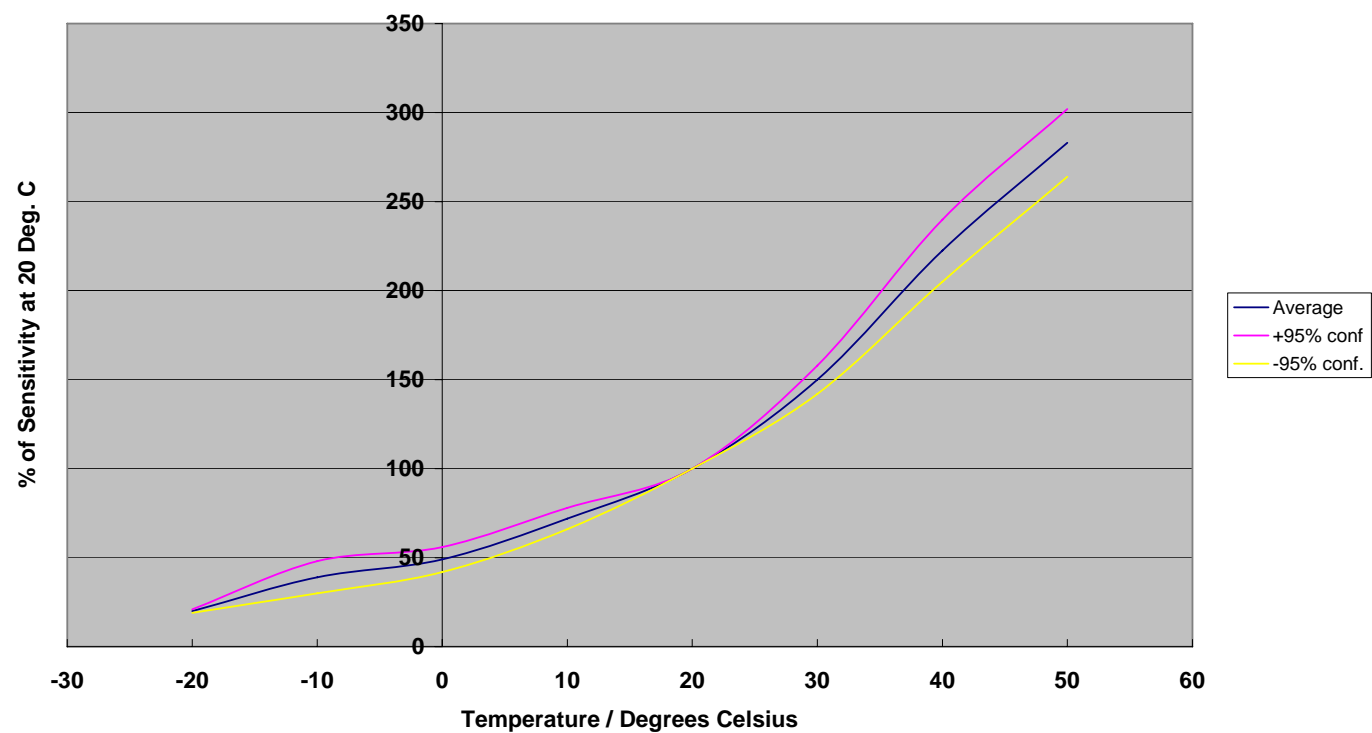
All dimensions in mm.
All tolerances ±0.15mm unless otherwise stated.

TEMPERATURE DEPENDENCE

EC4-1000-H2 Graph of Zero vs Temperature



EC4-1000-H2 Graph of Sensitivity vs Temperature



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