

**PERFORMANCE**

Range ..... 0 - 1000 ppm  
 Sensitivity ..... 50 - 130 nA/ppm H<sub>2</sub>S  
 Zero in air at 20 °C ..... <±8 ppm H<sub>2</sub>S  
 Resolution ..... 1 ppm H<sub>2</sub>S  
 Expected lifetime ..... 2 years  
 Linearity ..... linear across range  
 Response time, t<sub>90</sub> ..... <45 s  
 Long-term output drift ..... change in output per month

**OPERATING CONDITIONS**

Temperature range ..... -20 to +50 °C  
 Temperature coefficient ..... <0.5% signal per °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 ..... 6 g  
 Dimensions ..... see outline

This device is designed to be RoHS compliant.

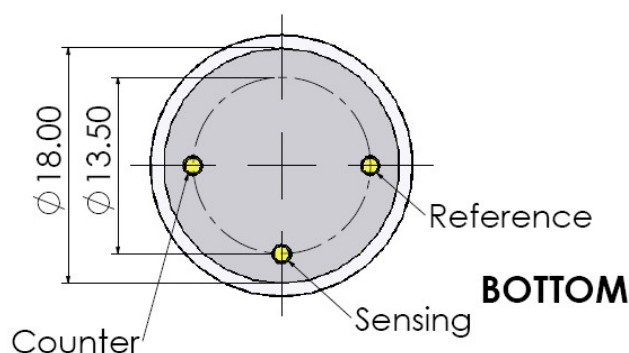
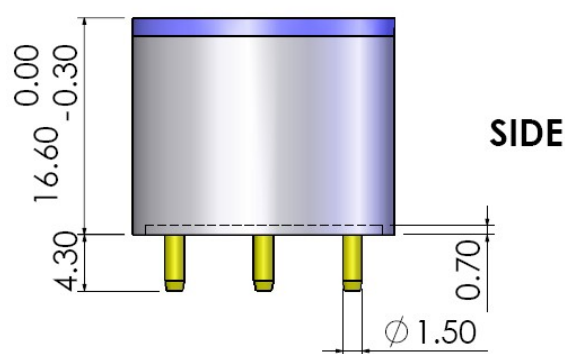
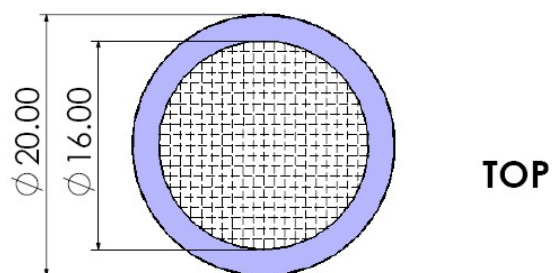
**CROSS-SENSITIVITY DATA**

| GAS              | Concentration (ppm) | Sensor Response (As ppm H <sub>2</sub> S) |
|------------------|---------------------|-------------------------------------------|
| Carbon Monoxide  | 300                 | 0                                         |
| Sulfur Dioxide   | 5                   | 0                                         |
| Nitric Oxide     | 35                  | <3                                        |
| Nitrogen Dioxide | 5                   | 0                                         |
| Hydrogen         | 1000                | 0                                         |
| Isobutylene      | 100                 | 0                                         |

**Important Note**

Do not solder to the connector pins as this may damage the sensor and thereby invalidate the warranty.

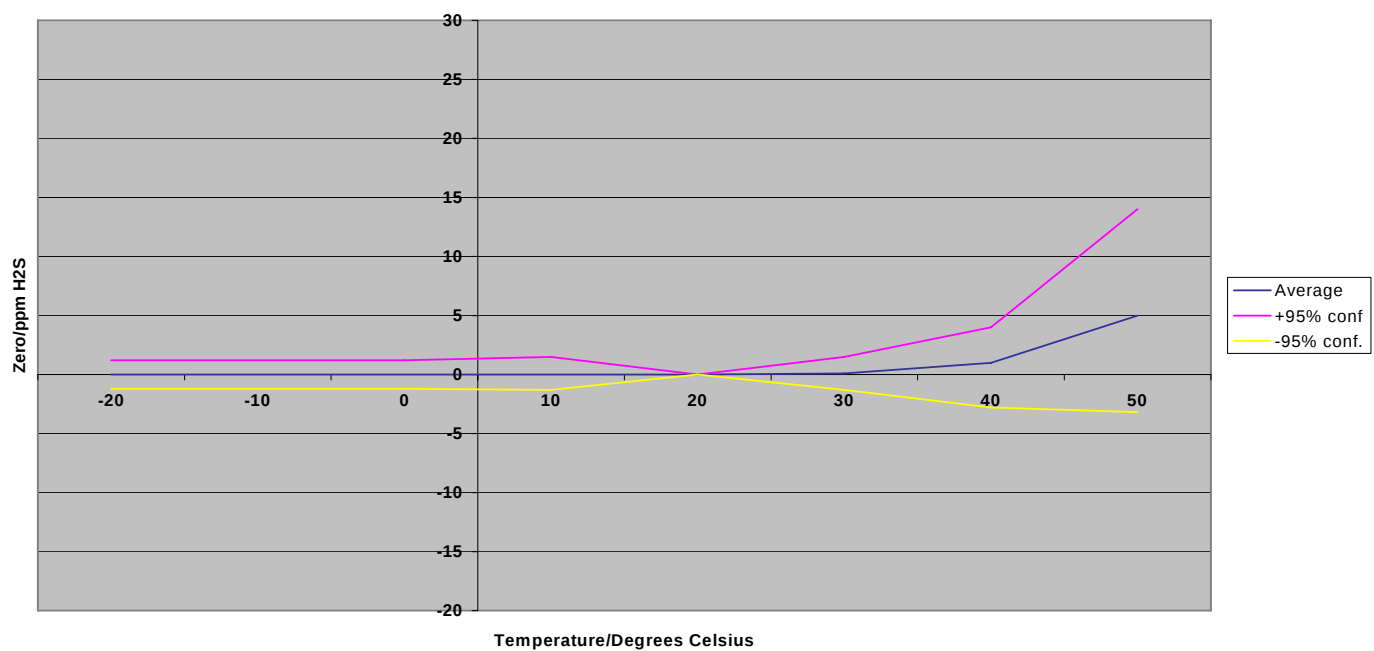
Details on recommended connector pins can be found in the Frequently Asked Questions within the Gas Sensor section of the SGX website.

**OUTLINE**


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

TEMPERATURE DEPENDENCE

EC4-1000-H2S Graph of Zero vs Temperature



EC4-1000-H2S Graph of Net Sensitivity vs Temperature

