

### PERFORMANCE

(measured using Carbon Monoxide)

Range ..... 0 - 200 ppm  
 Sensitivity ..... 95 - 105 nA/ppm ETO  
 Zero in air at 20 °C ..... -200 to +2500 nA  
 Resolution ..... 1 ppm ETO  
 Linearity ..... linear across range  
 Response time, t90 ..... <35 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 ..... +300 mV  
 Storage life ..... 6 months in original packaging (0 - 25 °C)

### PHYSICAL CHARACTERISTICS

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

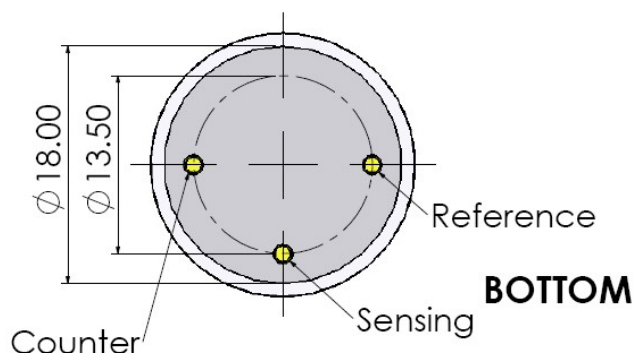
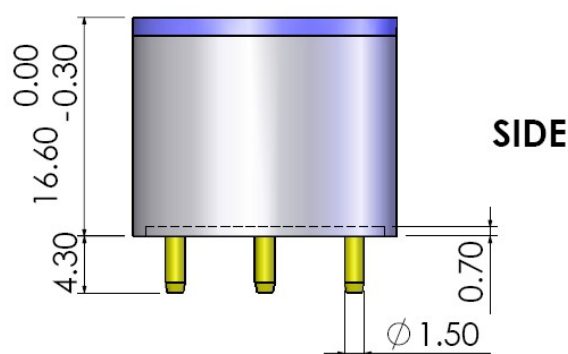
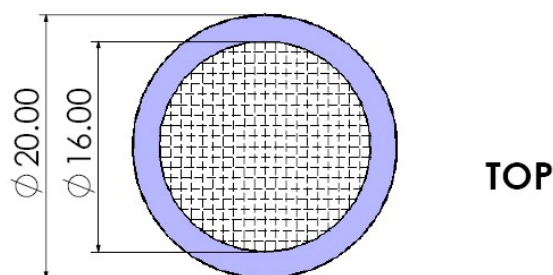
This device is designed to be RoHS compliant.

### CROSS-SENSITIVITY DATA

| GAS             | Concentration ppm | Sensor Response (As ppm CO) |
|-----------------|-------------------|-----------------------------|
| Carbon Monoxide | 100               | 100                         |
| Ethylene Oxide  | 100               | 432                         |
| Ethanol         | 100               | 128                         |
| Methanol        | 100               | 502                         |
| Propan-1-Ol     | 100               | 53                          |
| Butan-1-ene     | 100               | 110                         |
| 1,3 Butadiene   | 100               | 280                         |
| Ethene          | 100               | 290                         |
| Propene         | 100               | 155                         |
| Vinyl Chloride  | 100               | 194                         |
| Vinyl Acetate   | 100               | 124                         |
| Formic Acid     | 100               | 67                          |

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

### OUTLINE



All dimensions in mm.  
 All tolerances  $\pm 0.15$  mm unless otherwise stated.

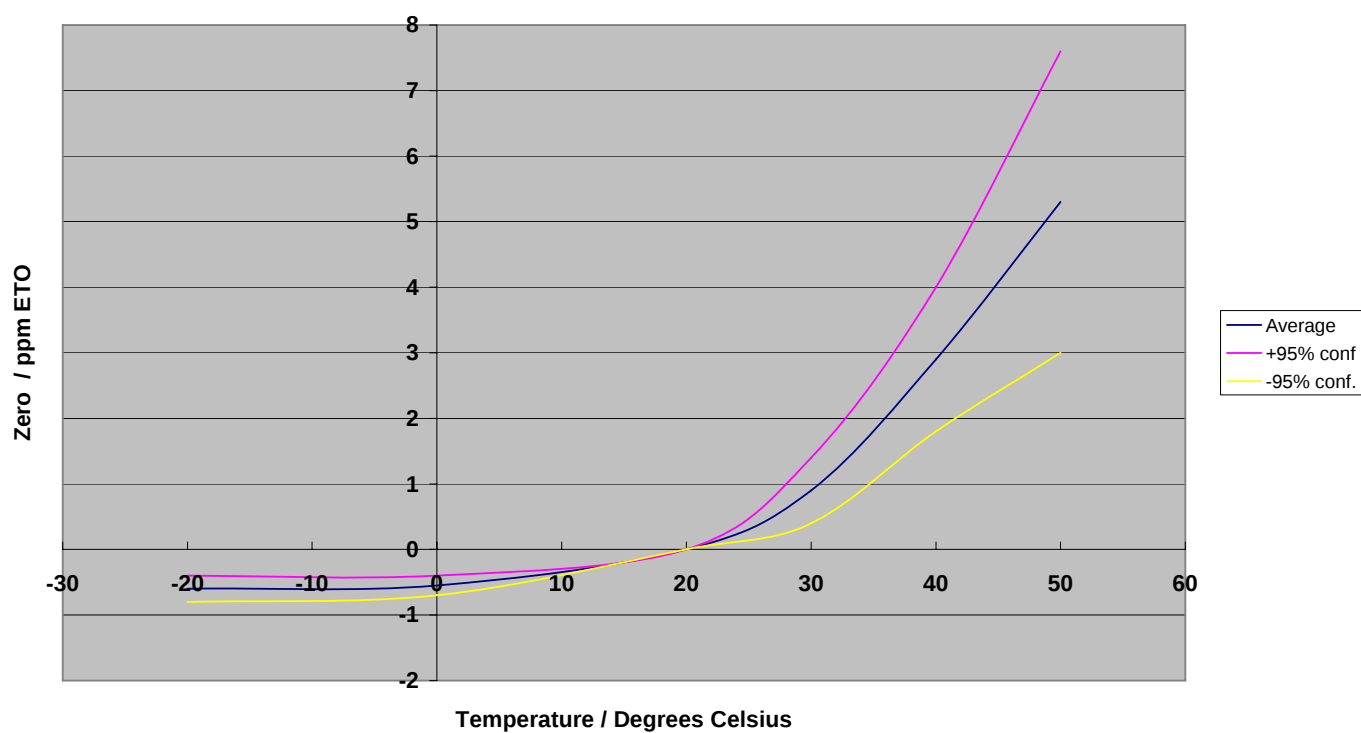
### Important Note

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.

## TEMPERATURE DEPENDENCE

EC4-200-ETO Graph of Zero vs Temperature



EC4-200-ETO Graph of Sensitivity vs Temperature

