



**SENSORTECH**

## PERFORMANCE

Range ..... 0 - 1000 ppm  
 Sensitivity ..... 30 - 110 nA/ppm PH<sub>3</sub>  
 Zero in air at 20 °C ..... <±14 ppm PH<sub>3</sub>  
 Resolution ..... 1 ppm PH<sub>3</sub>  
 Linearity ..... linear across range  
 Response time, t<sub>90</sub> ..... <60 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 PH <sub>3</sub> )
Hydrogen Sulfide	15	4
Sulfur Dioxide	5	5
Carbon Monoxide	1000	0
Ammonia	50	0
Hydrogen	1000	0
Ethene	100	0

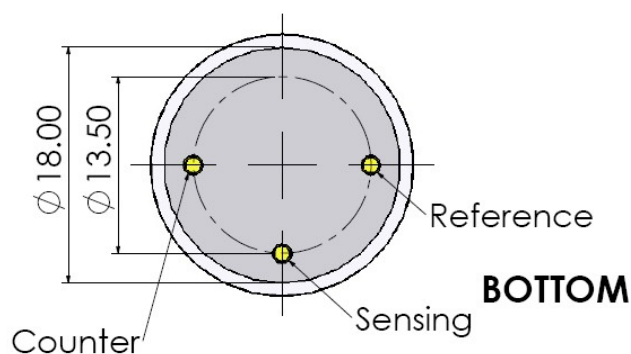
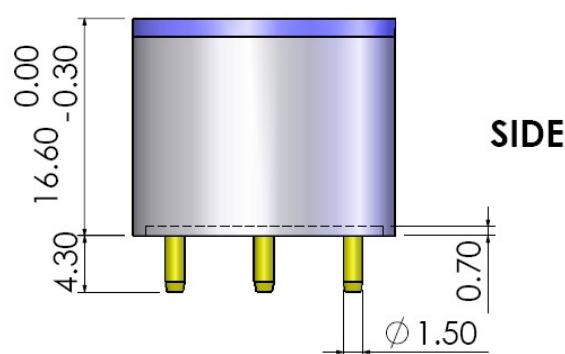
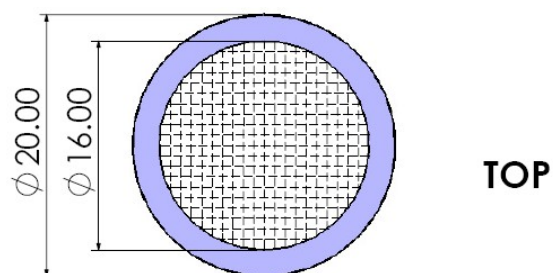
### Important Note

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.

## EC4-1000-PH3 Phosphine Electrochemical Sensor

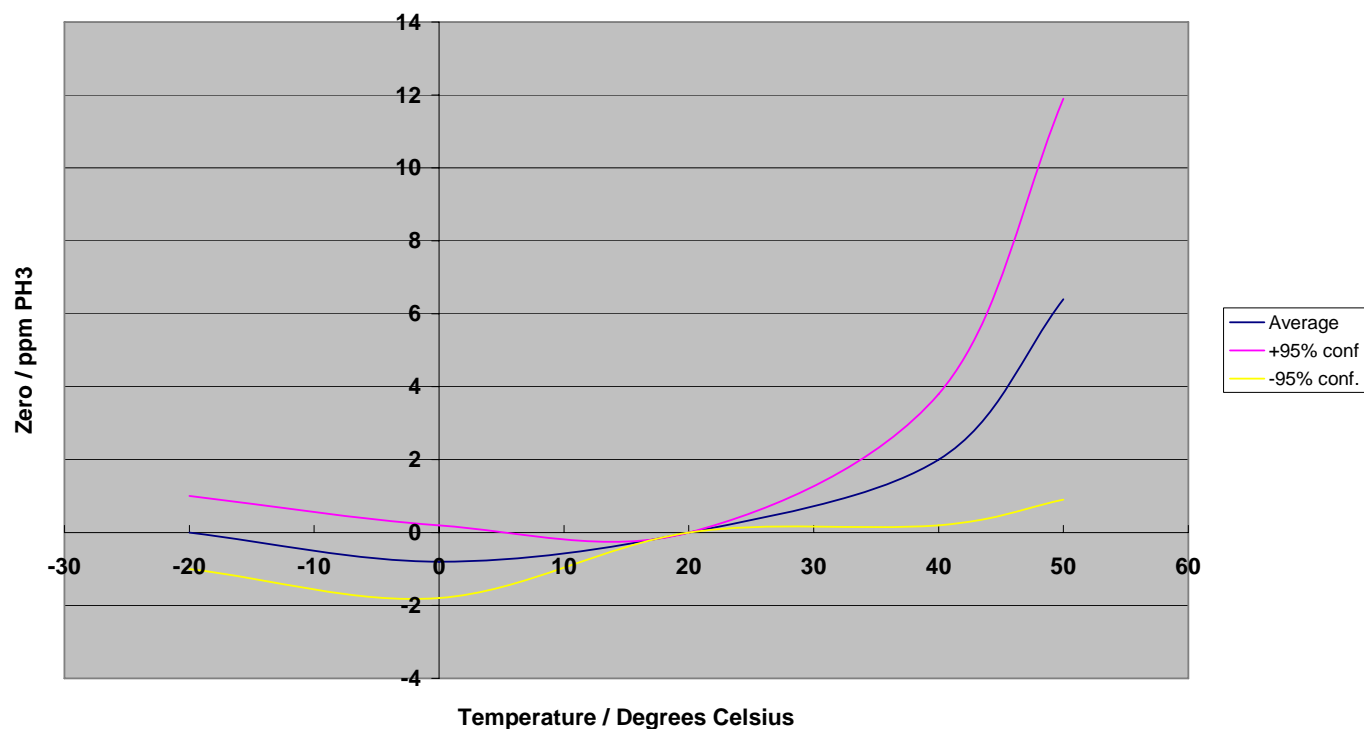
### OUTLINE



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

## TEMPERATURE DEPENDENCE

EC4-1000-PH3 Graph of Zero vs Temperature



EC4-1000-PH3 Graph of Sensitivity vs Temperature

