

EC4-100-H2S Hydrogen Sulfide Electrochemical Sensor

SENSORTECH

PERFORMANCE

Range	0 - 100 ppm
Maximum overload	500 ppm H2S
Sensitivity	600 - 1000 nA/ppm H2S
Zero in air at 20 °C	<±0.6 ppm H2S
Resolution	0.1 ppm H2S
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	0 V
Storage life 6 mon	ths 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

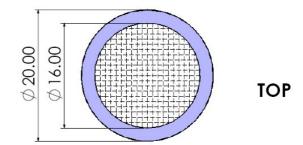
GAS	Concentration (ppm)	Sensor Response (As ppm H2S)
Carbon Monoxide	300	<1.5
Sulfur Dioxide	5	<1
Nitric Oxide	35	<0.7
Nitrogen Dioxide	5	<-1
Hydrogen	100	0

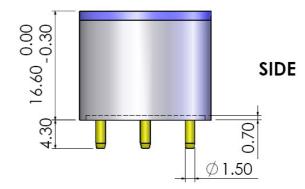
Important Note

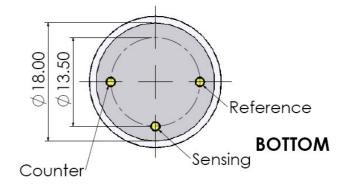
Do not solder to the connector pins as this may damage the sensor and thereby invalidate the warranty.

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

OUTLINE



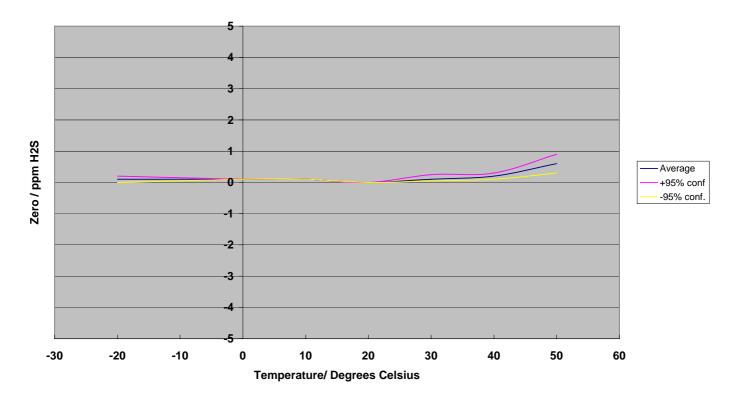




All dimensions in mm. All tolerances ± 0.15 mm unless otherwise stated.

TEMPERATURE DEPENDENCE

EC-4-100-H2S Graph of Zero vs Temperature



EC-4-100-H2S Graph of Net Sensitivity vs Temperature

