

2 Hanbury Road Chelmsford Essex CM1 3AE United Kingdom

T: +44 (0)1245-809110 F: +44 (0)1245-809112 E: sales.is@sgxsensortech.com www.sgxsensortech.com

SGX-7H2S Datasheet

Industrial Hydrogen Sulfide Sensor

Application : Fixed Gas Detectors

PERFORMANCE

Typical Baseline Range<±0.5	
Measurement Range	
Output Signal	1700 ± 400 nA / ppm
Linearity	Linear
Repeatability	< ±1% H2S equivalent
Response time, t90	<40 s
Maximum Overload	500 ppm
Long-term output drift	<5% per annum
Recommended Load Resistor	10 ohms
Warranty	2 year
Resolution (Electronics dependent)	

OPERATING CONDITIONS

Temperature Range	30 to +50°C
Operating Humidity15 - 90	% RH (non-condensing)
Pressure range	.800 mbar to 1200 mbar
Recommended Storage Tem	perature0°C to 20°C
Expected Operating Life	

INTRINSIC SAFETY DATA

Maximum at 2000 ppm	0.3 mA
Maximum o/c Voltage	
Maximum s/c Current	<1 0 A

CROSS-SENSITIVITY DATA

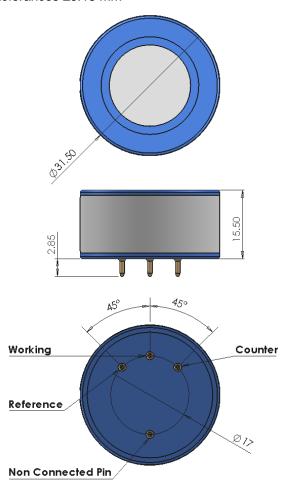
GAS	CONC.	SGX-7H2S
Carbon Monoxide	300 ppm	<3 ppm
Sulfur Dioxide	5 ppm	<1 ppm
Nitrogen Dioxide	5 ppm	<±0.5 ppm
Nitric Oxide	50 ppm	<1 ppm
Hydrogen	100 ppm	<1 ppm
Chlorine	1 ppm	0 ppm
Ethylene	100 ppm	0 ppm
Carbon Dioxide	5000 ppm	0 ppm

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

This device is designed to be RoHS compliant.

PRODUCT DIMENSIONS

All dimensions in mm All tolerances ±0.15 mm



IMPORTANT NOTES

All performance is based on conditions at 20°C, 50% RH and 1 atm, using SGX recommended circuitry.

Sensor performance is temperature dependant; please contact SGX for temperature performance other than 20°C.

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.



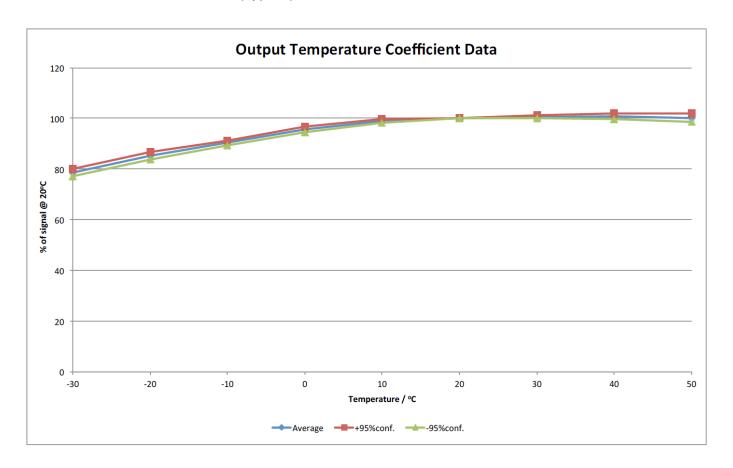
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POISONING

SGX sensors are designed to operate in a wide range of harsh environments and conditions. However it is important that exposure to high concentrations of solvent vapours is avoided during storage, fitting into instruments and operation. When using sensors on printed circuit boards (PCBs), degreasing agents should be used prior to the sensor being fitted.

TEMPERATURE PERFORMANCE (Typical)



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In case of modification of the product, SGX disclaims all liability.