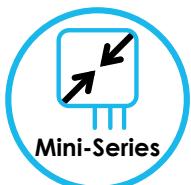
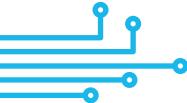




**SENSORTECH**

An Amphenol Company



# SGX-H2S-Mini Hydrogen Sulphide sensor

## Datasheet

The Mini-series Electrochemical sensors from SGX SensorTech, with a housing dimension of just 8.3x14.4mm offer the smallest package available. A 75% reduction vs the popular SGX-4-series sensors. It gives customers the opportunity to reduce the size of instrument packages. The sensors offer fast response & recovery, high stability and have a 3-pin configuration (Counter, Reference and Working electrodes).



*Quality, Safety, Responsibility*

## PERFORMANCE

<b>Nominal Range</b>	0 - 200
<b>Maximum Overload</b>	500
<b>Output signal</b>	170 ± 55 nA / ppm
<b>Typical Baseline Range (pure air)</b>	± 0.5 ppm
<b>Response Time (T90)</b>	< 20 s
<b>Linearity (0-200ppm)</b>	±2%
<b>Linearity (200-500ppm)</b>	±5%
<b>Repeatability</b>	< ±5% (measured value)
<b>Recommended Load Resistor</b>	10 ohms
<b>Resolution (Electronics dependent)</b>	< 0.5 ppm typical

## Features

- High stability
- Fast response and recovery
- Robust environmental stability
- Low cross-sensitivity to methanol
- Low-profile package

## Key Applications

- Industrial Safety
- Industrial General

## OPERATING CONDITIONS

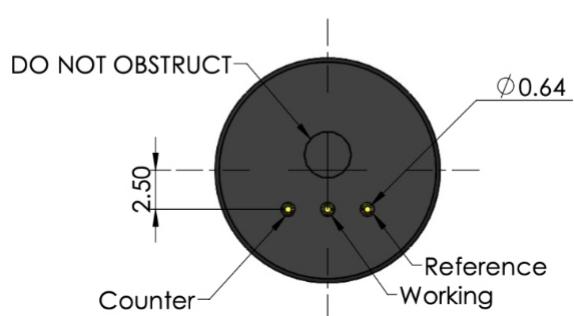
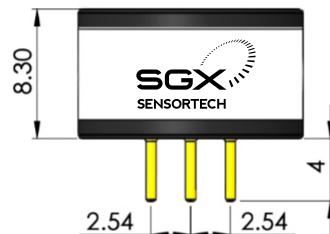
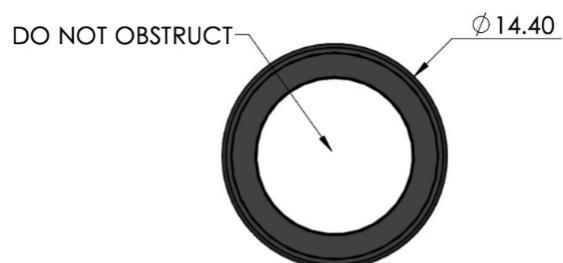
<b>Temperature Range (Continuous)</b>	-40°C to +50°C
<b>Temperature Range (Intermittent)</b>	Up to 60°C
<b>Pressure Range</b>	800 to 1200 mbar
<b>Operating Humidity Range (non-condensing)</b>	15% to 90% RH

## LIFETIME

<b>Long Time Output Drift</b>	< 10% per annum
<b>Storage Temp</b>	0°C to 20°C
<b>Expected Operating Life</b>	> 24 months in air

## INTRINSIC SAFETY DATA

<b>Max. at 500 ppm</b>	0.3 mA
<b>Max. O/C Voltage</b>	1.3 V
<b>Max. S/C Current</b>	<1.0 A

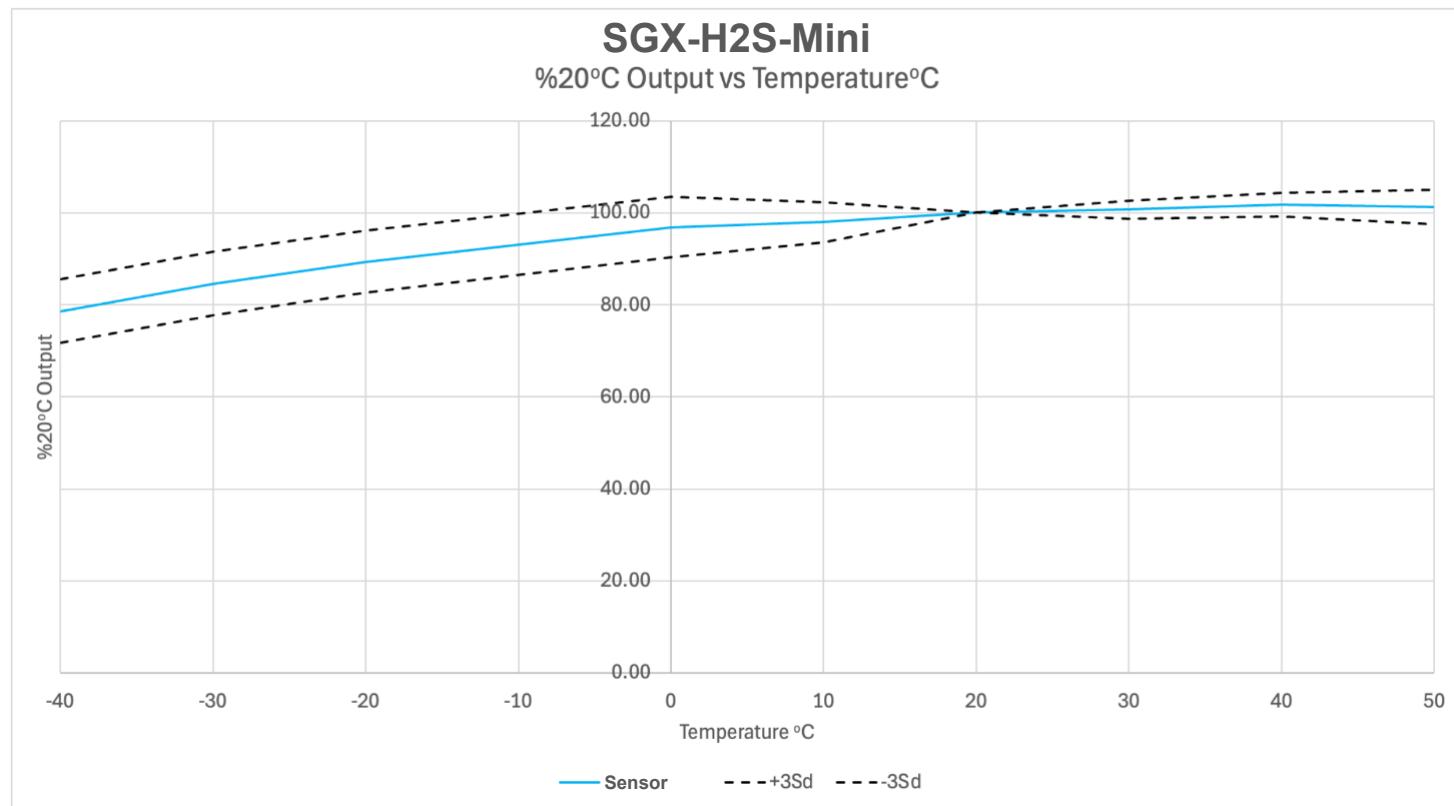


Product Dimensions  
All dimensions in mm  
All tolerances ±0.15 mm

## CROSS SENSITIVITY

Gas	Test Concentration	Sensor Reading
Carbon Monoxide	200 ppm	0 ppm
Sulphur dioxide	20 ppm	<3 ppm
Hydrogen	100 ppm	0 ppm
Nitric Oxide	50 ppm	<0.5 ppm
Nitrogen Dioxide	20 ppm	-5 ppm
Ammonia	50 ppm	0 ppm
Chlorine	15 ppm	0 ppm
Ethylene	100 ppm	0 ppm
Acetylene	100 ppm	0 ppm

## TEMPERATURE DATA



### Poisoning:

SGX SensorTech sensors are built to work well in tough and demanding environments. However, avoid exposing them to high levels of solvent vapors — during storage, installation, or use. If you're mounting the sensor on a printed circuit board (PCB), clean the board with a degreasing agent before installation.

### Important:

Do not glue or solder anything directly to the pins of SGX SensorTech sensors. Doing so will void the warranty. Always use proper PCB sockets for connection.