

# H2S-5000F SENSOR – LONG LIFE HYDROGEN SULPHIDE SENSOR



## FEATURES

- Mini size ideal for portable, fixed, low power and battery applications
- High 5000ppm H2S range
- Long lifetime technology of 15 years with no risk of leakage
- Zero power consumption
- High sensitivity, fast response
- Selective detection, high precision
- Wide temperature range with high temperature capability up to 125°C
- QR coded with individual sensor calibration data

## TYPICAL APPLICATIONS

- Industrial Detection & Safety Monitoring
- Portable and fixed instruments
- Oil & gas monitoring in refineries, drilling operations and pipelines
- Wastewater treatment
- Chemical manufacturing
- Mining
- Biogas monitoring of landfill & digesters
- Energy engineering
- Li battery factories & warehouses
- Electric vehicles
- Process Monitoring
- Energy Engineering



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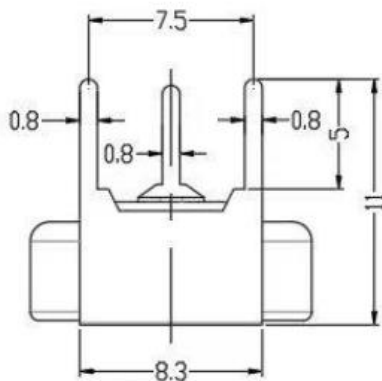
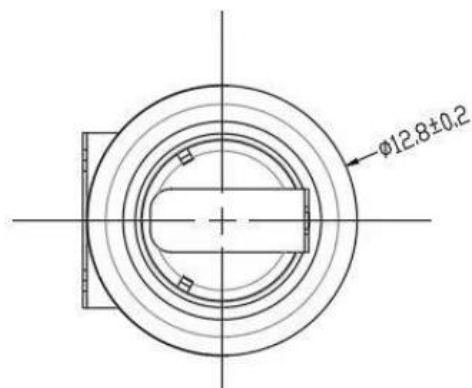
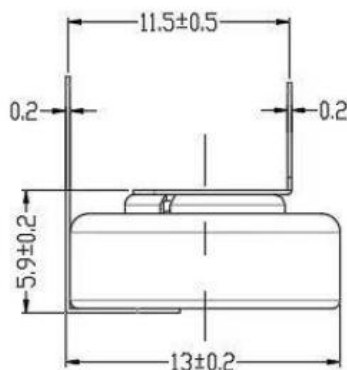
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MANAGEMENT SERVICES LTD

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## DIMENSIONS



All dimensions are in millimetres mm.  
All tolerances are +/- 0.15mm.

## SPECIFICATION

<b>Measuring Principle:</b>	Mini fuel cell, 2-electrode sensor
<b>Detectable Gases:</b>	Hydrogen Sulphide H <sub>2</sub> S
<b>Standard Range:</b>	0 – 5000ppm H <sub>2</sub> S
<b>Maximum Over-Range:</b>	6000ppm
<b>Optional Ranges on request:</b>	0-2ppm, 0-100ppm H <sub>2</sub> S
<b>Sensitivity:</b>	0.6 ± 0.2 nA/ppm
<b>Response Time (T<sub>90</sub>):</b>	< 90 seconds
<b>Repeatability:</b>	3 % typically
<b>Lower Detectable Limit (LDL):</b>	20 ppm
<b>Warm-up time:</b>	Less than 60 seconds
<b>Linearity:</b>	Linear
<b>Expected Operating Life:</b>	15 years in air
<b>Operating Temperature Range:</b>	-40°C to +125°C
<b>Humidity Range (non-condensing):</b>	10 – 90% RH
<b>Pressure Range:</b>	1 atm +/- 10%
<b>Weight:</b>	3 g
<b>Warranty Period:</b>	12 months from date of manufacture
<b>Part Number:</b>	2112B6005000



Note: The sensor can be soldered into PCBs. Please see Operating Notes for more details. Do not use reflow or wave soldering, as this could damage the sensor.

All performance specifications are based upon the following environment conditions: +20°C, 50% relative humidity and 1 atm (1013 mBar or ambient pressure).

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**Notes:** The sensor can be soldered into PCBs. Please see Operating Notes for more details. Do not use reflow or wave soldering, as this could damage the sensor.

Sensors are designed to operate in a wide range of harsh environments and conditions. However, it is important to avoid exposure to high concentrations of solvent during storage, fitting into instrumentation and operation. When using sensors on PCBs, degreasing agents should be used prior to the sensor being fitted.

By the nature of the technology used, any sensor can potentially fail to meet specification without warning. Euro-Gas makes every effort to ensure reliability of all sensors but where life safety is a performance requirement of the product and, where practical, Euro-Gas recommends that all gas sensors and instruments using sensors are checked for response to gas before use. The data contained in this document is believed to be accurate and reliable. The data given is for guidance only. Euro-Gas Management Services Ltd accepts no liability for any consequential losses, injury or damage resulting from the use of this datasheet or the information contained in it. Customers should test the sensors under their own conditions to ensure that the sensors are suitable for their own requirements and in accordance with the plans and circumstances of the specific project and any standards/regulations pertaining to the country in which the sensors will be utilised. Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time. This datasheet is not intended to form the basis of a contract and in the interest of product improvement, Euro-Gas reserves the right to alter design features and specifications without notice. 2509

