

MIX8060 Electrochemical Hydrogen Gas Sensor

Version No.:1.5

Features:

- *High selectivity and sensitivity to H₂
- *High accuracy
- *Linear output
- *Long life
- *Environmental protection design

Application:

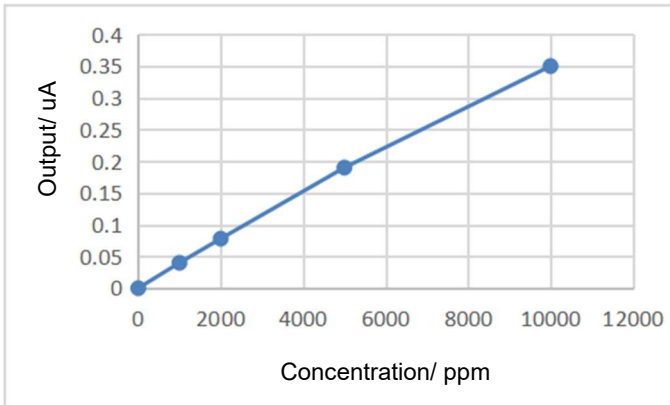
- *Vehicle new energy hydrogen leakage monitoring
- *H₂ leakage monitoring for industrial

MIX8060 is a battery operable electrochemical hydrogen sensor developed by Mixsen. Hydrogen and oxygen on the working electrode and counter electrode are subjected to oxidation-reduction reaction correspondingly. This produces the electric current. The current is directly proportional to the concentration of hydrogen and following the Faraday's law. Through measure the current to get the concentration of hydrogen.



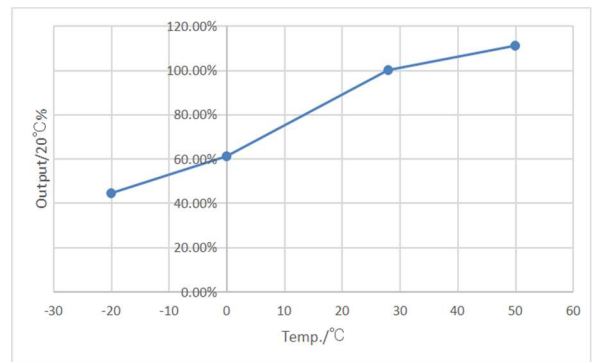
Sensitivity Characteristics:

MIX8060 (25° C) linear output



Temperature dependency:

MIX8060 temperature dependency



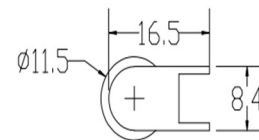
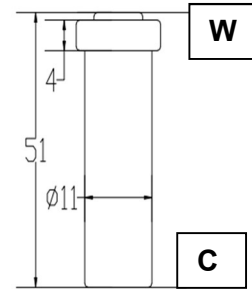
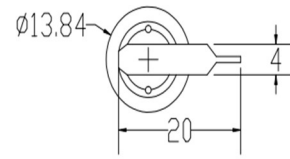
Notice: In different applications used by different customers, the operation condition is different. Mixsen strongly recommend customers contact with Mixsen's technician, especially when the detect gases are not in target gases list, Mixsen cannot responsible if customers has not asked for specifically tested by Mixsen.

Specifications:

Item	Specification
Target Gas	Hydrogen
Measurement Range	0 ~ 1000 ppm/0 ~ 5000 ppm 0.10-0.30 nA/ppm
Output Current	0.02-0.05 nA/ppm
Repeatability	±2%
Resolution	0.5 ppm/ 5ppm
Response Time (T90)	< 60 S
Long Term Output Drift	< 2% /month
Lifetime	10 years
Operating Temperature Range	-20 ~ 50°C
Operating Humidity Range	15 ~ 90% RH
Operating Pressure Range	0.1MPa±10%
Recommended Load Resistor	1kΩ
Bias Voltage	Not required

Note: All measurements were taken at 20°C, 50%RH at 1013hPa

Structure and Dimensions:



All dimensions in mm

All tolerance ±0.1mm, unless otherwise stated

Operating Note:

- * When soldering the metal ribbons, the soldering tin was forbidden to contact with the sensor.
- * Aging the sensor no less than 30 mins before operation.
- * Keeping the sensor out of the volatile solvent.
- * Prohibit storage and operating the sensor in acidic or alkaline environment.

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