

MIX8030 Electrochemical Alcohol Sensor

Version No.:1.5

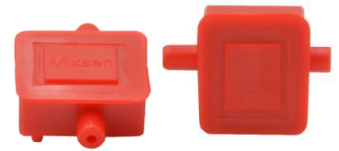
Features:

- *Small size
- *High accuracy
- *High sensitivity
- *Linear output
- *Long life

Application:

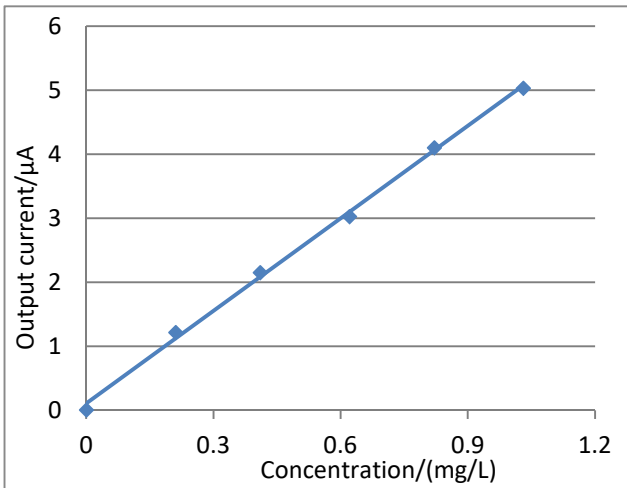
- *Residential and commercial
- *Alcohol testing for traffic safety
- *Alcohol testing before works
- *Coin-operated alcohol detector

MIX8030 is an electrochemical an alcohol sensor developed by Mixsen. Alcohol 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 alcohol and following the Faraday's law. Through measure the current to get the concentration of carbon monoxide.



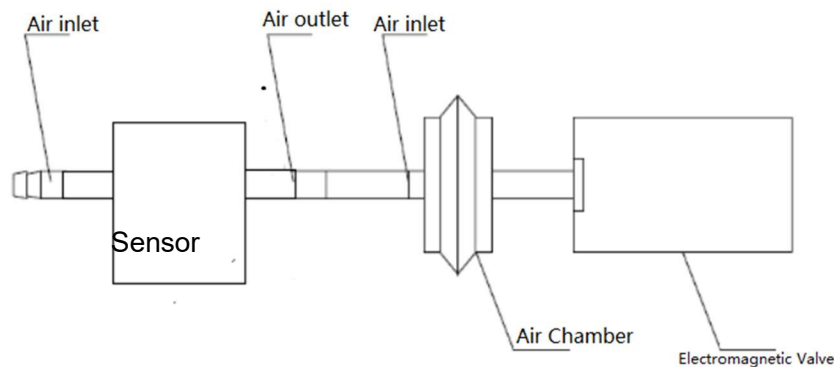
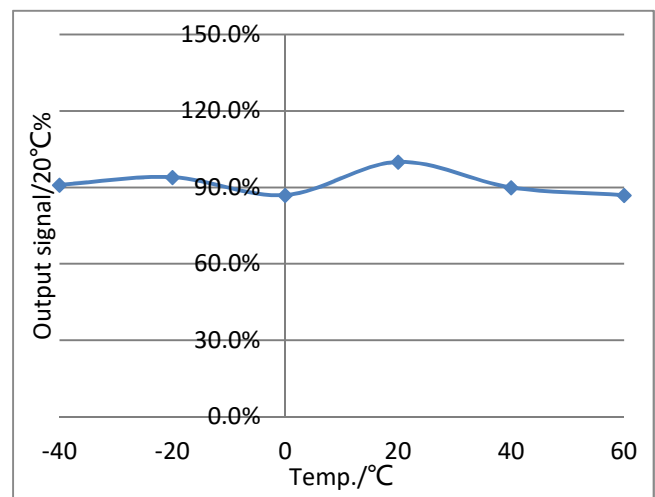
Sensitivity Characteristics:

MIX8030 (25° C) linear output



Temperature dependency:

MIX8030 temperature dependency



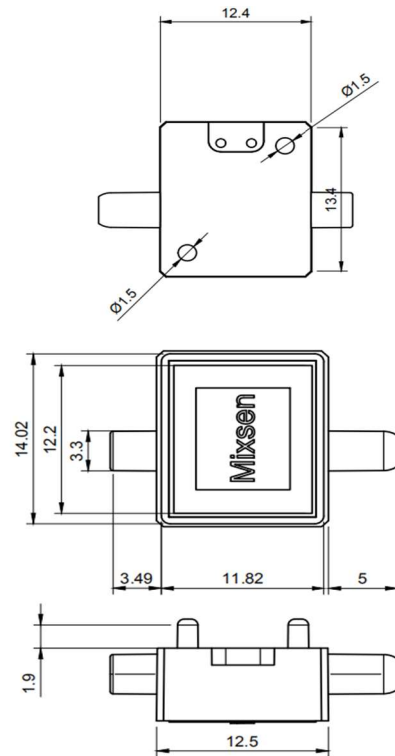
Notice: In different applications used by different customers, the operation condition is different. Mixsen strongly recommend customers contact with Mixsen's technician, especially when the detect gases are not in target gases list, Mixsen cannot responsible if customers has not asked for specifically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

Specifications:

Item	Specification
Target Gas	Alcohol(CH ₃ CH ₂ OH)
Measurement Range	(0~1.0) mg/L
Maximum Overload	2.0 mg/L
Sensitivity	(6±2) μA/(mg/L)
Response Time(T ₉₀)	≤20 Seconds
Recommended Load Resistor	10 Ω
Repeatability	±0.006mg/L
Stability	<2%/month
Output Linearity	Linear
Drift in Air (-20℃~40℃)	-0.01mV~0.01mV
Lifetime	2 years
Operating Temperature Range	-20 ~ 50℃
Storage Temperature Range	0~20℃
Operating Humidity Range	15 ~ 90% RH
Operating Pressure Range	0.1MPa±10%
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.

Shenzhen Mixsen Electronics Co., Ltd
 Add.: 4A, No. B Building, Dalangyongtai
 Industrial Park, Huawang Road, Longhua
 District, Shenzhen, Guangdong, China
 Post: 518000
 Tel: 86-755-86635585
 Mail: sales@mixsen.com
 Website: www.mixsensors.com