



New Electrochemical Alcohol Sensor

# AL-05S (Standard type)



## Features

- Superior environmental resistance
- 1.5times longer life time compared to our previous model
- Excellent selectivity    ■ Perfect leak-proof structure
- Effectiveness cost-performance
- High compatibility with AL-03S

## Specifications

### Sensitivity Characteristics

Detection Gas	Alcohol (Ethanol)
Detection Range	0 ~ 2.0mg/L
Output Peak Current	8 ~ 25 $\mu$ A
Repeatability	< $\pm$ 5%
Response Time	< 2.5seconds
Expected Life Time	3 years <

Performance data conditions: 20 °C,50%RH and 1013mBar.  
Ethanol concentration: 0.150mg/L, under MGK recommended conditions.

### Operating Conditions

Operating Temperature	0 ~ 50°C
Operating Humidity	10 ~ 90% RH
Recommended Absorption Volume	0.10 ~ 0.15cc
Position Sensitivity	None

### Storage Conditions

Temperature	-20 ~ 50°C
Recommended Storage Temperature	0 ~ 20°C

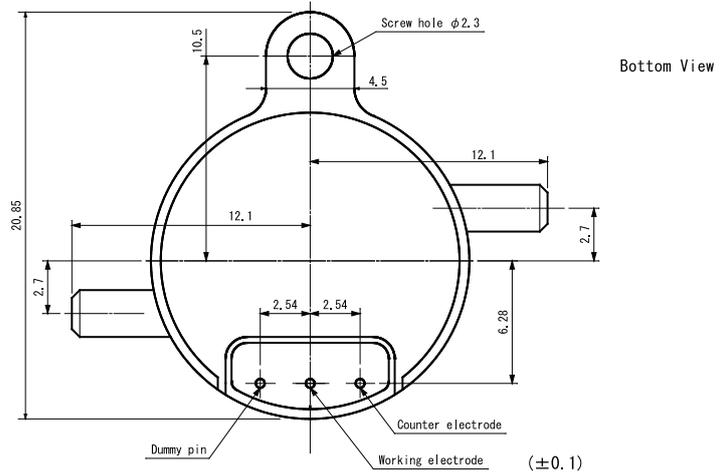
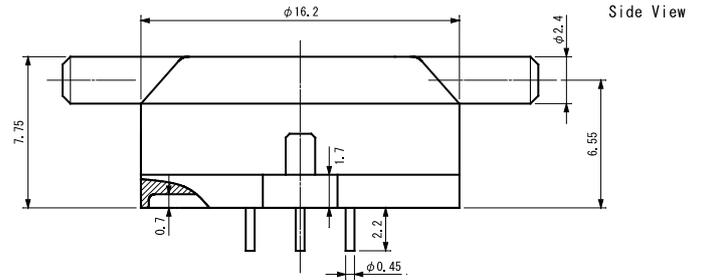
### Warranty

Storage	6 months in container
Operation	18 months under normal conditions

### Physical Characteristics

Cap Color	Gray
Electric Pin	$\phi$ 0.45, Brass Au-plated
Weight	1.2g (approx.)

## Appearance and Dimensions



## Typical Selectivity

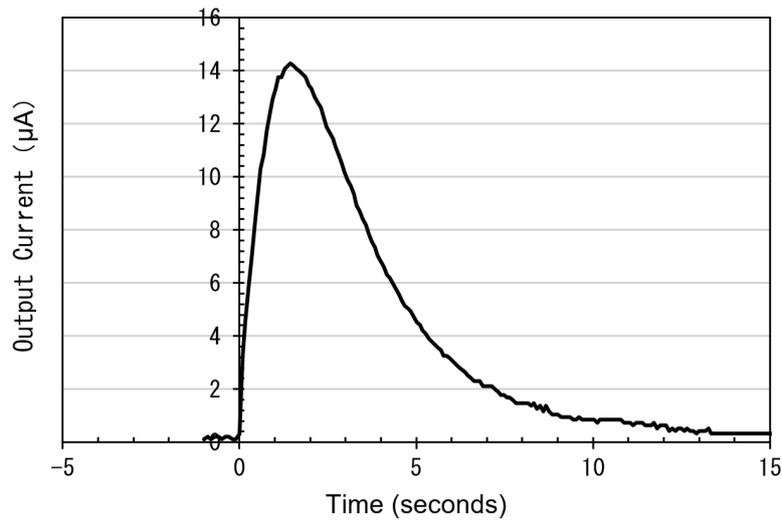
Test Gas	Gas Concentration (mg/L)	Typical Ethanol Concentration Equivalent (mg/L)
Ethanol	0.150	0.150
Carbon Monoxide	0.10	0.005
Acetone	0.25	0
Methanol	0.05	0.041
2-Propanol	0.05	0.019
Toluene	0.10	0

## Notes: AL-05S DN-1031E Jan.2026

As the products may be use outside control of MGK SENSOR, the information provided is given without legal responsibility. Customer should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

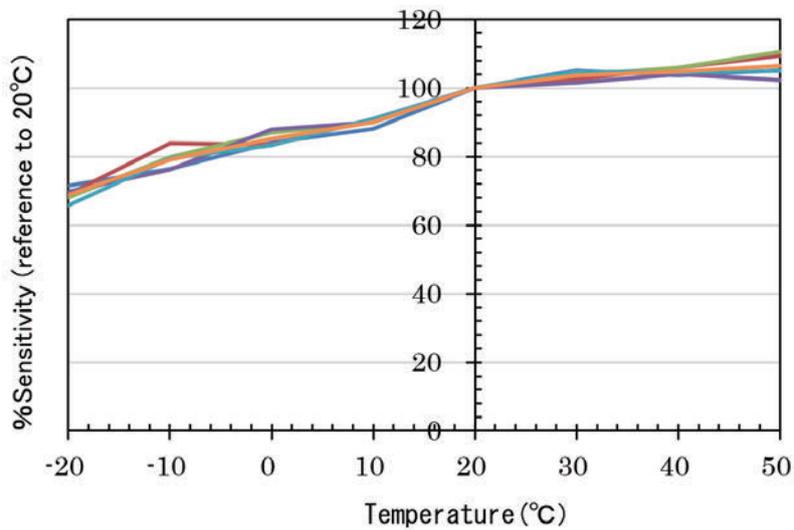
In accordance with the company's policy of continued product improvement, MGK SENSOR reserves the right to make product changes without notice.

## Typical output signal



Conditions: Ethanol concentration 0.15mg/L

## Temperature dependency



## Linearity

