



Specifications

New Electrochemical Alcohol Sensor

AL-05P (Premium type)



Features

- Superior environmental resistance
- 1.5times longer life time compared to our previous model
- Excellent selectivity
- Perfect leak-proof structure
- Excellent temperature dependence
- High compatibility with AL-03P

Specifications

Sensitivity Characteristics

Detection Gas	Alcohol (Ethanol)
Detection Range	0 ~ 2.0mg/L
Output Peak Current	8 ~ 25 μ A
Repeatability	< \pm 5%
Response Time	< 3.0sec
Expected Life Time	3years

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

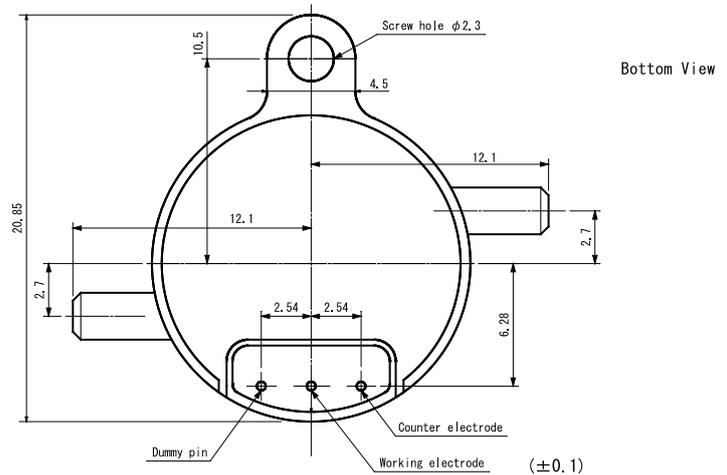
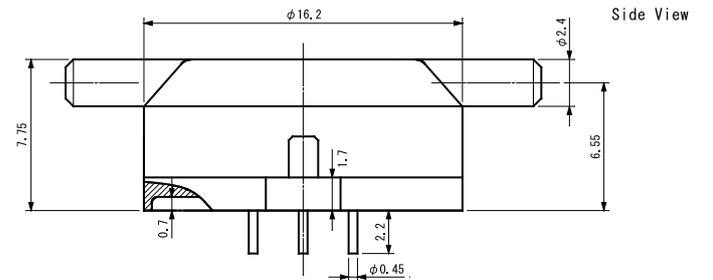
Warranty

Storage	6 months in container
Operation	18 months under normal conditions

Physical Characteristics

Cap Color	Black
Electric Pin	ϕ 0.45, Brass Au-plated
Weight	1.2g (approx.)

Appearance and Dimensions



Typical Selectivity

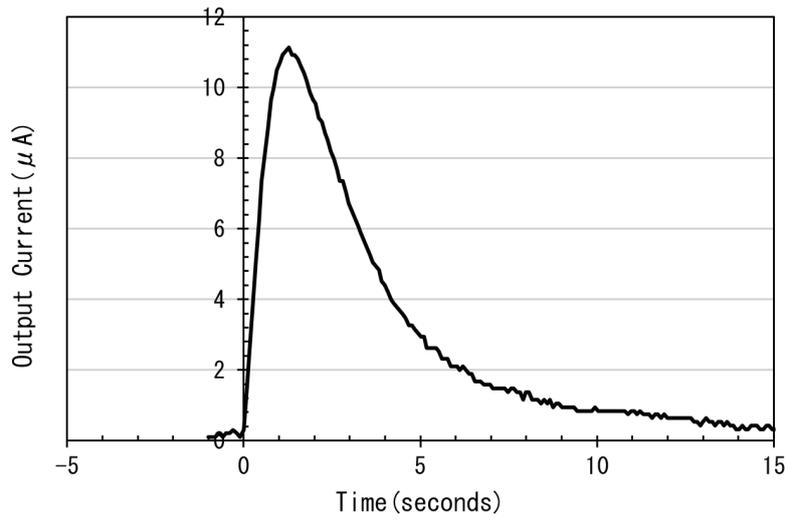
Test Gas	Gas Concentration (mg/L)	Typical Ethanol Concentration Equivalent (mg/L)
Ethanol	0.150	0.150
Carbon Monoxide	0.10	0.007
Acetone	0.25	0
Methanol	0.05	0.060
2-Propanol	0.05	0.020
Toluene	0.10	0

Notes: AL-05P DN-1030E Feb.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.

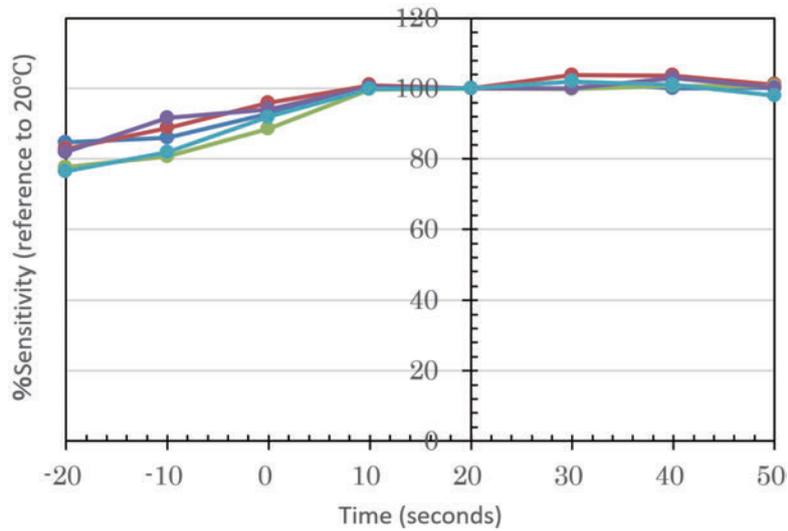
In accordance with the company's policy of continued product improvement, MGK SENSOR reserves the right to make product changes without notice.

Typical output signal



Conditions: Ethanol concentration 0.15mg/L

Temperature dependency



Linearity

