



New Electrochemical Alcohol Sensor

AL-05E (Economy type)



Features

- Linearity
- Excellent selectivity
- Perfect leak-proof structure
- Low Cost

Specifications

Sensitivity Characteristics

Detection Gas	Alcohol (Ethanol)
Detection Range	0 ~ 1.0mg/L
Output Peak Current	5 ~ 20 μ A
Repeatability	< \pm 5%
Response Time	< 2.5sec
Expected Life Time	2years

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

Operating Conditions

Operating Temperature	10 ~ 40°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

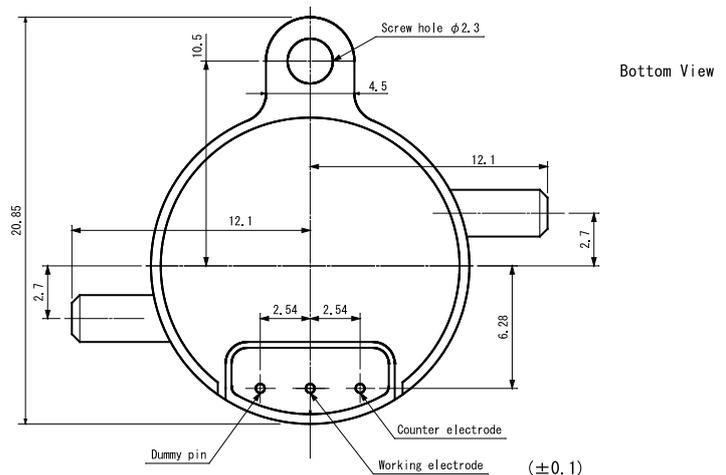
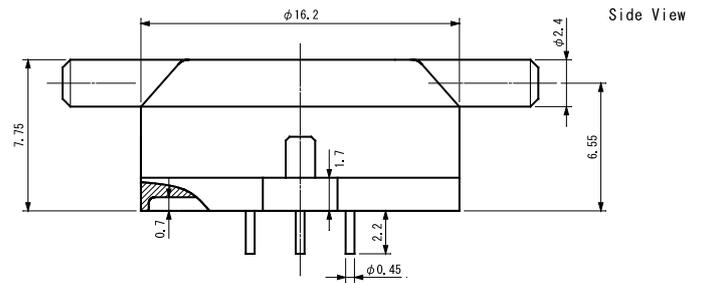
Warranty

Storage	6 months in container
Operation	12months under normal conditions

Physical Characteristics

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

Appearance and Dimensions



Typical Selectivity

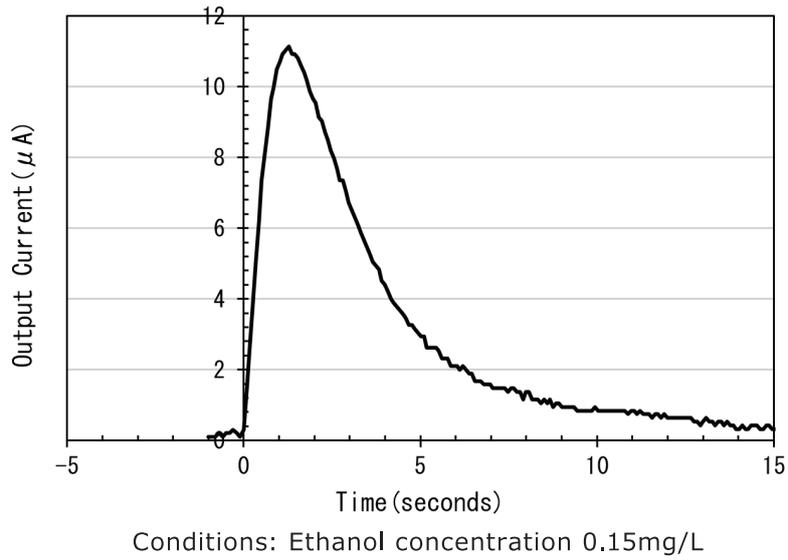
Test Gas	Gas Concentration (mg/L)	Typical Ethanol Concentration Equivalent (mg/L)
Ethanol	0.15	0.15
Carbon Monoxide	0.10	0.003
Acetone	0.25	0
Methanol	0.05	0.041
2-Propanol	0.05	0.024
Toluene	0.10	0

Notes: AL-05E DN-1032E Jan.2026

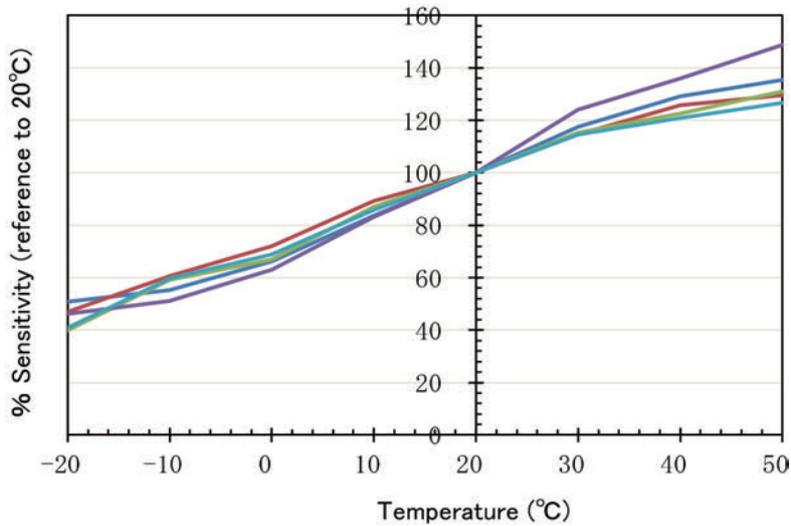
As the products may be use outside control of MGK SENSOR, the information provided is given without legal responsibility. Customer should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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



Temperature dependency



Linearity

