MGK SENSOR

Electrochemical Chlorine Sensor

Cl2-MD-600

Design Features

- Excellent Selectivity
- Linearity
- Stability
- High Reliability
- Perfect Leak-proof Structure

Specifications

Sensitivity Characteristics

Detection Gas	Chlorine
Detection Range	0 ~ 10ppm
Maximum Overload	50ppm
Output Signal	600 ± 150 nA/ppm
Repeatability	± 2%
Resolution	0.1ppm
Typical Baseline Range (pure air)	± 0.2ppm
Typical Response Time (t90)	< 60seconds
Baseline Shift (−20 ~ 50℃)	< 0.5ppm
Long Term Output Drift	< 2% / month
Expected Life Time	> 2years

Performance data conditions: 20 ℃ , 50%RH and 1013mBar, using MGK SENSOR recommended circuitry.

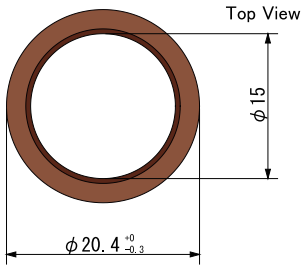
Operating Conditions

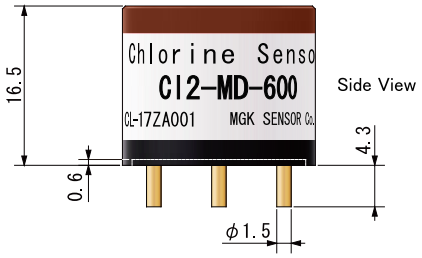
Operating Temperature	−20 ~ 50℃
Operating Humidity	15 ~ 90% RH
Operating Pressure Range	Atmospheric ± 10%
Recommended Load Resistor	33Ω
Bias Voltage	Not required
Position Sensitivity	None
Recommended Storage Temp.	0 ~ 20℃
Storage Life	6months

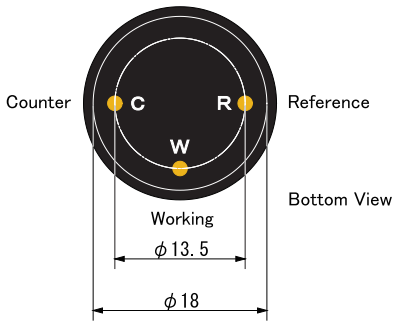
Physical Characteristics

Cap Color	Brown
Weight	4.5g (approx.)

Appearance and Dimensions







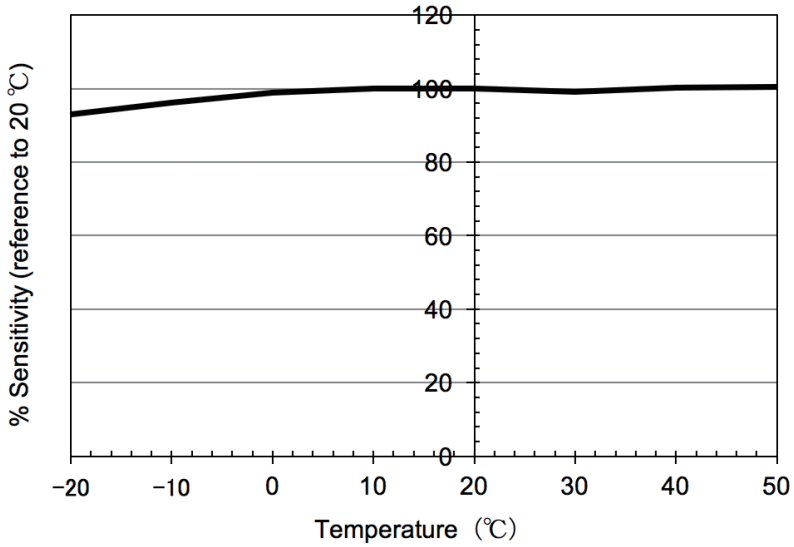
All dimensions in mm
All tolerance +/-0.1 mm unless otherwise stated

NOTE: Do not solder to electrode pins. Use exclusive sockets.
Do not blow organic solvents, paints, chemical agents, oils or high concentration gases onto sensor.

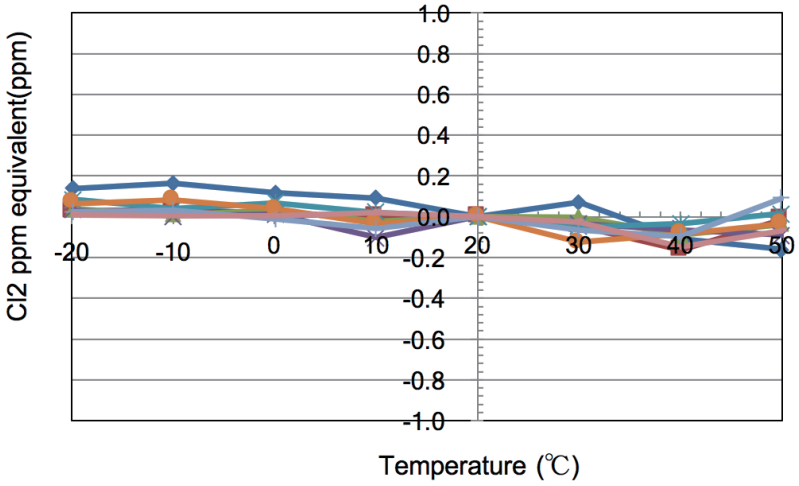
Typical Cross Sensitivities

Gas	Concentration (ppm)	Typical Chlorine Concentration (ppm) Equivalent
Chlorine	10	10
Carbon Monoxide	300	0
Carbon Dioxide	5000	0
Hydrogen	1000	0
Nitrogen Dioxide	10	10
Nitric Oxide	35	< −0.3
Hydrogen Sulfide	15	< −7.5
Sulphur Dioxide	20	0
Ethanol	100	0

Temperature Dependency



Baseline Shift



NOTE: CI2-MD-600 DN-2051 Oct. 2013

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.

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