



Electrochemical Hydrogen peroxide Sensor

H2O2-MD-500



Specifications

Sensitivity Characteristics

Detection Gas	Hydrogen peroxide
Detection Range	0 ~ 300ppm
Maximum Overload	500ppm
Output Signal	500 ± 150 nA/ppm
Repeatability	± 5%
Resolution	0.5ppm
Typical Baseline Range (pure air)	± 2ppm
Typical Response Time (t90)	< 60seconds
Baseline Shift (-20 ~ 50°C)	< 3ppm (typical)
Long Term Output Drift	< 2% / month
Expected Life Time	2years

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

Operating Conditions

Operating Temperature	-20 ~ 50°C
Operating Humidity	15 ~ 90% RH
Operating Pressure Range	Atmospheric ± 10%
Recommended Load Resistor	10Ω
Bias Voltage	+300mV
Position Sensitivity	None
Recommended Storage Temp.	0 ~ 20°C
Storage Life	6months

Physical Characteristics

Cap Color	Blue
Weight	4.5g (approx.)

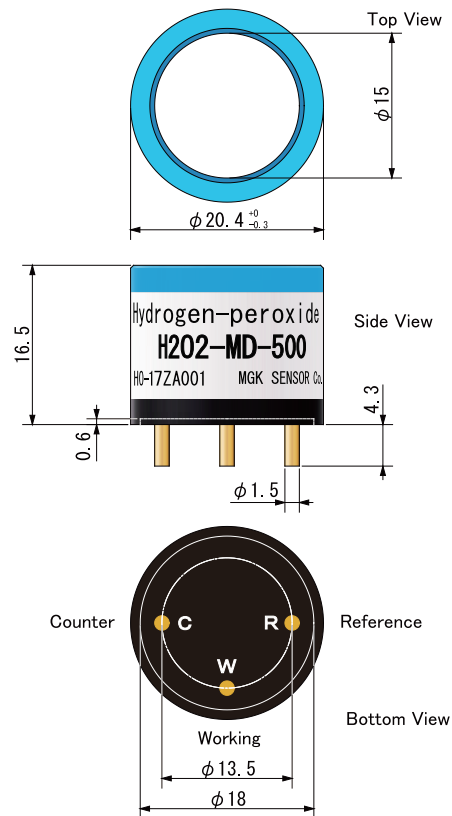
Typical Cross Sensitivities

Gas	Concentration (ppm)	Typical Hydrogen peroxide Concentration (ppm) Equivalent
Hydrogen peroxide	100	100
Carbon Monoxide	300	2
Carbon Dioxide	5000	0
Hydrogen	500	1
Nitrogen Dioxide	5	2
Hydrogen Sulfide	5	10
Sulphur Dioxide	10	7
Ammonia	100	0
Ethanol	200	0

Design Features

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

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.

NOTE: H2O2-MD-500 DN-2081 Mar. 2016

As the products may be used 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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