



Electrochemical Nitrogen Dioxide Sensor

NO2-MD-600



Design Features

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

Specifications

Sensitivity Characteristics

Detection Gas	Nitrogen Dioxide
Detection Range	0 ~ 30ppm
Maximum Overload	150ppm
Output Signal	600 ± 150 nA/ppm
Repeatability	± 2%
Resolution	0.1ppm
Typical Baseline Range (pure air)	± 0.2ppm
Typical Response Time (t90)	< 25seconds
Baseline Shift (-20 ~ 40°C)	< 0.2ppm
Long Term Output Drift	< 2% / month
Expected Life Time	> 3years

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

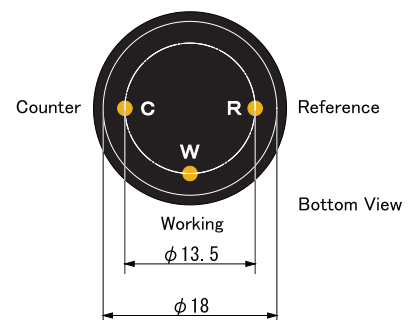
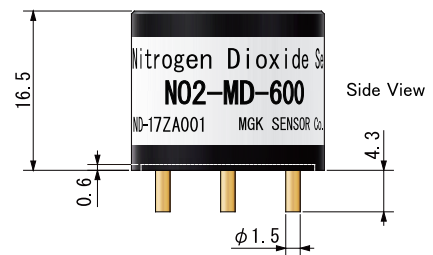
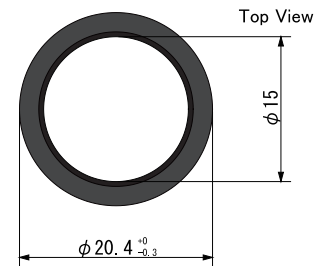
Operating Conditions

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

Physical Characteristics

Cap Color	Black
Weight	4.5g (approx.)

Appearance and Dimensions



All dimensions in mm

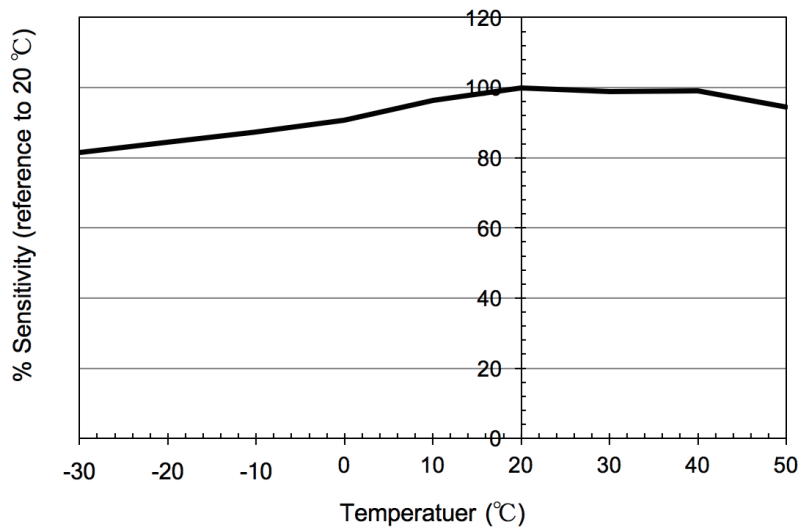
All tolerance +/-0.1 mm unless otherwise stated

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.

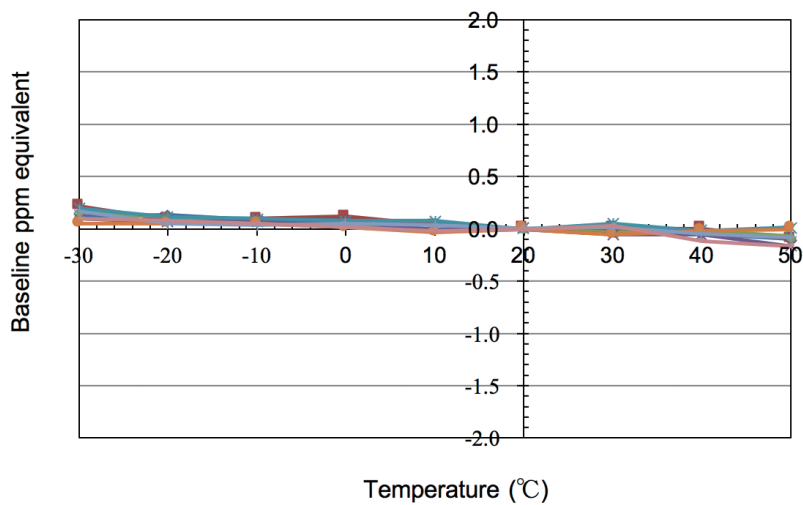
Typical Cross Sensitivities

Gas	Concentration (ppm)	Typical Nitrogen Dioxide Concentration (ppm) Equivalent
Nitrogen Dioxide	30	30
Hydrogen	1000	0
Carbon Monoxide	300	0
Carbon Dioxide	5000	0
Sulphur Dioxide	20	0
Hydrogen Sulfide	10	-0.7 ~ 0.3
Nitric Oxide	30	0
Ammonia	100	0
Ethanol	100	0
Chlorine	1	1

Temperature Dependency



Baseline Shift



NOTE: NO2-MD-600 DN-2031 Aug. 2011

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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