



Electrochemical Nitric Oxide Sensor

NO-MD-400



Design Features

- High Sensitivity, Quick Response and Recovery
- Excellent Selectivity
- Linearity
- Stability
- High Reliability
- Perfect Leak-proof Structure

Specifications

Sensitivity Characteristics

Detection Gas	Nitric Oxide
Detection Range	0 ~ 300ppm
Maximum Overload	1000ppm
Output Signal	400 ± 80 nA/ppm
Repeatability	± 2%
Resolution	0.5ppm
Typical Baseline Range (pure air)	0 ~ 3ppm
Typical Response Time (t90)	< 40seconds
Baseline Shift (-20 ~ 40°C)	< 4ppm(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.

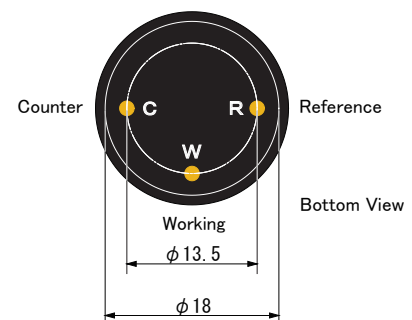
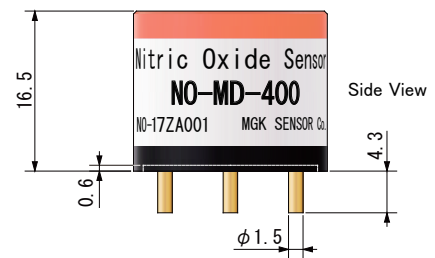
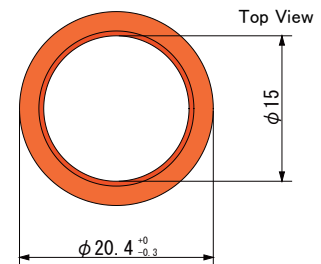
Operating Conditions

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	Orange
Weight	4.5 g (approx.)

Appearance and Dimensions



All dimensions in mm

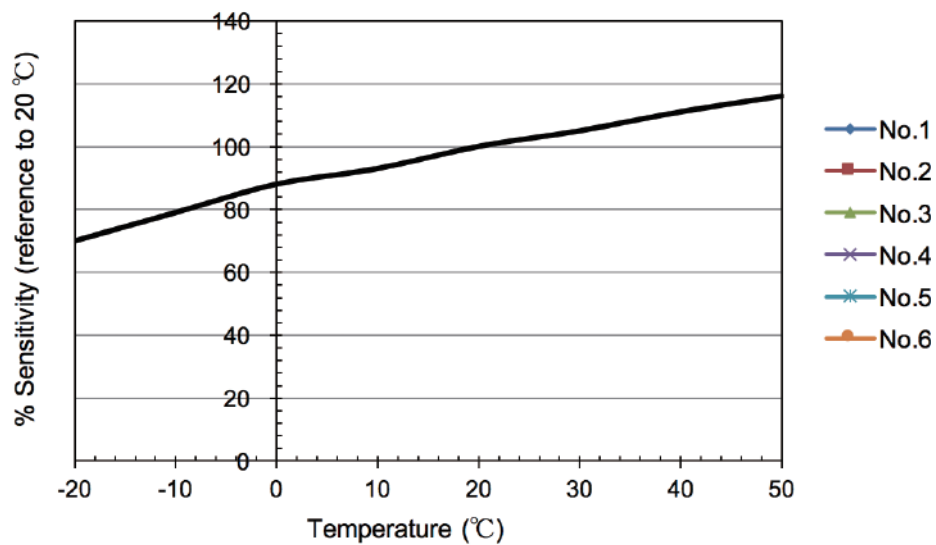
All tolerance +/-0.1 mm unless otherwise stated

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.

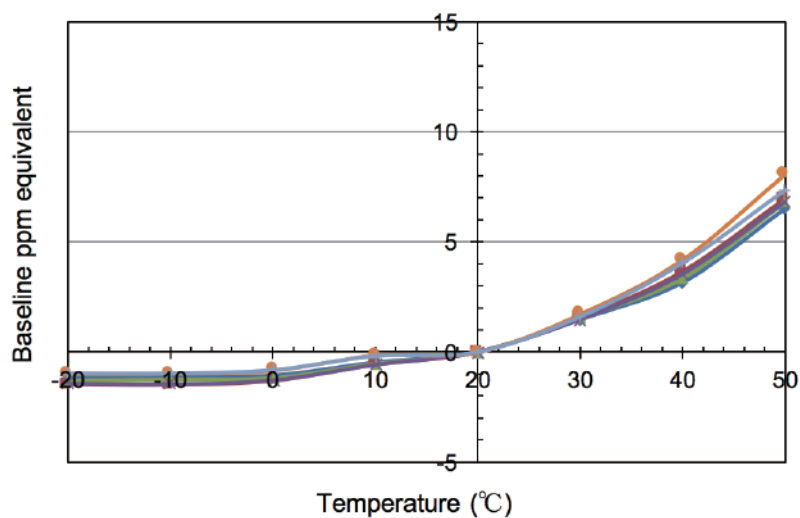
Typical Cross Sensitivities

Gas	Concentration (ppm)	Typical Nitric oxide Concentration (ppm) Equivalent
Nitric Oxide	100	100
Carbon Monoxide	300	0
Carbon Dioxide	5000	0
Hydrogen	1000	0
Nitrogen Dioxide	5	< 1
Chlorine	10	0
Hydrogen Sulfide	15	< 4
Sulphur Dioxide	20	0
Ammonia	20	0

Temperature Dependency



Baseline Shift



NOTE: NO-MD-400 DN-2071 Jun. 2015

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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