

MIX8415 Electrochemical Ammonia Gas Sensor

Version No.:1.5

Features:

- *High selectivity & sensitivity to NH₃
- *High accuracy
- *Linear output
- *Environmental protection design

Application:

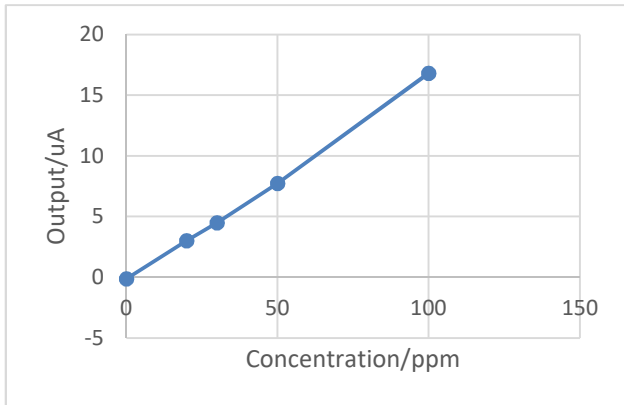
- * Industrial monitors, leakage detection
- * Environmental protection field
- *Farm air monitoring

MIX8415 is an electrochemical ammonia sensor developed by Mixsen. It uses the principle of electrochemistry, the ammonia gas undergoes a redox reaction under the catalyst condition. This produces the electric current. The current is directly proportional to the concentration of ammonia. Through measure the current to get the concentration of ammonia.



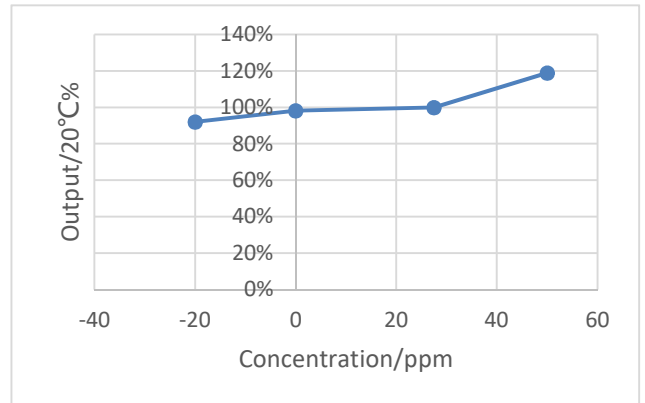
Sensitivity Characteristics:

MIX8415 (25° C) linear output

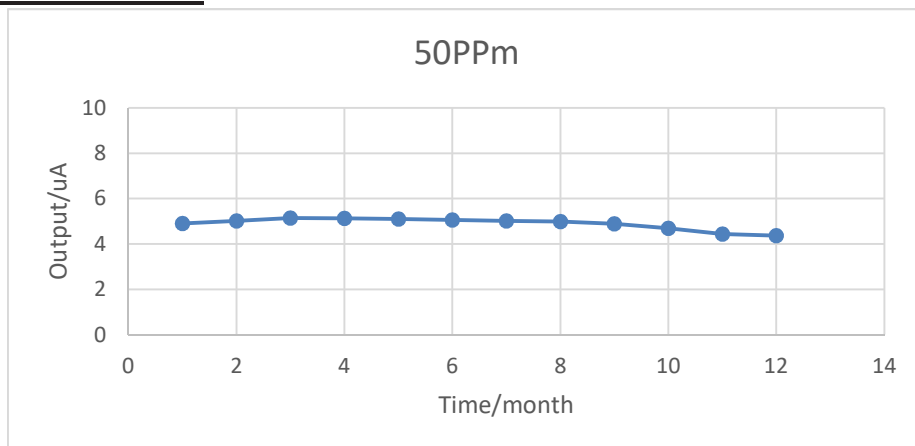


Temperature dependency:

MIX8415 temperature dependency



Stability Characteristics:



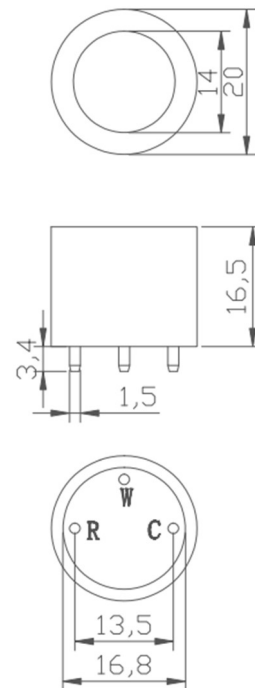
Notice: In different applications used by different customers, the operation condition is different. Mixsen strongly recommend customers contact with Mixsen's technician, especially when the detect gases are not in target gases list, Mixsen cannot responsible if customers has not asked for specifically tested by Mixsen.

Specifications:

Item	Specification
Target Gas	Ammonia
Measurement Range	0 ~ 100 ppm
Maximum Overload	200 ppm
Sensitivity	0.08-0.16 nA/ppm
Repeatability	±2%
Resolution	0.5 ppm
Response Time (T90)	< 60 Seconds
Long Term Output Drift	< 2% /month
Lifetime	1 Year
Operating Temperature Range	-20 ~ 50°C
Operating Humidity Range	15 ~ 90% RH, no-condensing
Bias Voltage	Not required

Note: All measurements were taken at 20°C and 50%RH at 1013hP

Structure and Dimensions:



All dimensions in mm
All tolerance ± 0.1 mm, unless otherwise stated

Cross Sensitivity:

The cross sensitivity data show below is MIX8415 respond under 25 °C.

Gas	Concentration(ppm)	Reading(ppm CO)
Hydrogen Sulfide	25	20
Carbon Monoxide	100	0
Carbon Dioxide	5000	0
Hydrogen	1000	0
Alcohol	100	0

Operating Note:

- * The soldering tin was forbidden to contact with the sensor.
- * Aging the sensor no less than 30 mins before operation.
- * Keeping the sensor out of the volatile solvent.
- * Prohibit storage and operating the sensor in acidic or alkaline environment.

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