



## Electrochemical NH3 Sensor for RN400-T2GS

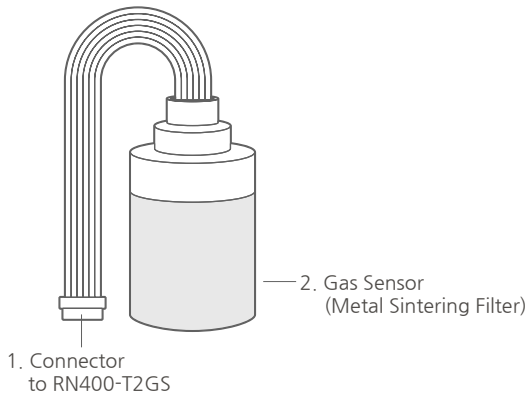
# RG10-NH3

- Real-time NH3 density, Temperature transmitter
- Electrochemical NH3 gas sensor embedded
- Individual Certificate included
- Only for RN400-T2GS



The RG10-NH3 is designed to be used with the RN400-T2GS model for measuring ammonia gas. It is a factory-calibrated gas sensor for which user calibration is not required at all. The entire body would be replaced when the sensitivity degrades. An individual certificate is included in the product box. Using UA-Calibration software, the RN400-T2GS and a gas mixture, a professional customer could calibrate the RG10 at zero/span point.

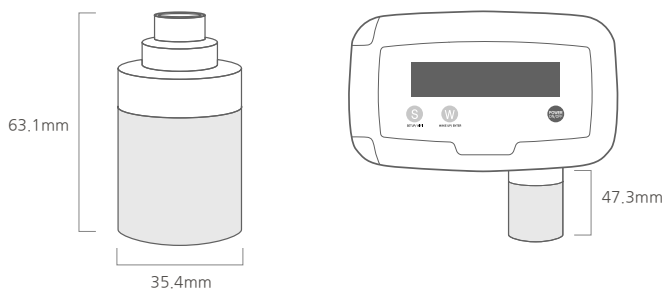
### Hardware



### ⚠ CAUTION!

- Volatile organic compounds (VOCs) should be avoided in applications where electrochemical sensors are used because they either dissolve in the electrolyte or adsorb onto the sensor's housing.
- Long-term exposures and high concentrations may affect the performance characteristics.
- Sudden changes in humidity cause short-term transient signals.
- Avoid contact with conductors.
- Static electricity can cause distorted values.
- Do not open the housing for calibration.

### Dimensions



### Contact Information

- [www.radionode365.com](http://www.radionode365.com)
- [master@dekist.com](mailto:master@dekist.com)



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### RG10-NH3 Specifications

Sensor Channel Info.	NH3 only
Gas Sensor Type	Electrochemical Cell
Gas Sensor Filter	Metal Sintering filter
Body Material	Stainless Steel
Measurement Range	NH3: 0 ~ 100 ppm
Measurement Unit	NH3: ppm
Measurement Cycle	1 sec
Sensor Resolution	1ppm
Sensor Accuracy (Repeatability)	< 3% of measured value
Compensation Logic	Temperature
Baseline Drift	Zero $\pm$ 3 ppm
Long-term Drift	< 5% signal loss / 6 months
Gas Response Time	T90 < 40 secs
Warming-up Time	< 3mins after power-on
Operating Condition	<ul style="list-style-type: none"> <li>• Temperature: 10 ~ 40°C (50 ~ 104°F)</li> <li>• Humidity: 15 ~ 90% R.H(non condensing)</li> </ul>
Lifetime	More than 12 months @ discontinuous measurement
Humidity-Sensitivity	< 4ppm
Cross-Sensitivity	Interfering Gas: SO2, H2S, NO, NO2, Cl2
Power Consumption	3.3V (Max. 2mW)
Calibration Certificate	Individual Certificate. Calibration with 50ppm NH3 calibration gas mixtures
Calibration Method	Two-point Calibration
Output Signal	2 Wire Digital (Only For RN400-T2GS)

### Application

- Smart Farm Application
- Industrial safety Monitoring
- Odor Monitoring

### Product Components

Model	Component
RG10-NH3	<ul style="list-style-type: none"> <li>• RG10-NH3(1EA)</li> <li>• Calibration Certificate(1EA)</li> </ul>