

AMMONIA NITROGEN

DIGITAL AMMONIA NITROGEN SENSOR - N900

Liquid Analysis

Measurement & Monitoring



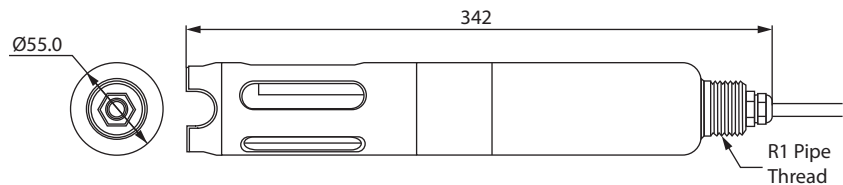
DESCRIPTION

The N900 Series online digital ammonia nitrogen sensor apply the ion selective electrode (ISE) method to measure the concentration of ammonia nitrogen. The N900 integrates ammonium ion selective electrode with the compensation of ion K^+ potassium , pH and temperature. These parameters compensate the measurement value of ammonia nitrogen and showing multi-parameter measurement reading. The N900 is completed with standard digital signal output, integrating and networking with other equipment without controller. With rapid response, low maintenance cost, real-time online measurement, the N900 is suitable for wide range of application such as sewage treatment plant (aeration tank), industrial process plant and river monitoring.

FEATURES

- ✓ Digital sensor with RS485 signal output
- ✓ Ion selective electrode (ISE) method
- ✓ Dynamically compensate temperature and pH
- ✓ Stable data repeatability
- ✓ Strong anti-interference ability
- ✓ Fast response time
- ✓ Low maintenance cost

DIMENSION/DRAWING



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09-2021 I-SYSTEM 515005

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TECHNICAL FEATURES

Operating Condition

Range	NH₄N: 0.1 to 1000 mg/L Potassium, K⁺: 0.5 to 1000 mg/L pH: 5 to 10 Temperature: 0 to 40°C
Operating Temperature	0 to 45°C

Sensor Performance

Resolution	NH₄N: 0.01 mg/L Potassium, K⁺: 0.01 mg/L pH: 0.01 Temperature: 0.1°C
Accuracy	NH₄N: ±5 % of the measured value or ± 0.2 mg/L Potassium, K⁺: ±5 % of the measured value or ±0.2 mg/L pH: ±0.1 pH Temperature: ±0.5°C
Response Time	≤2 minutes
Minimum Detection Limit	0.2mg/L

Electrical

Power Supply	DC: 9-36VDC
Communication	RS485 (Modbus)

Dimension and Protection

Dimension	Diameter 55 mm, Length 342 mm
Protection	IP68/NEMA 6P
Signal Cable Length	Standard 10 meter (maximum 100 meter)

Storage Requirement

Storage Temperature	0 to 50°C
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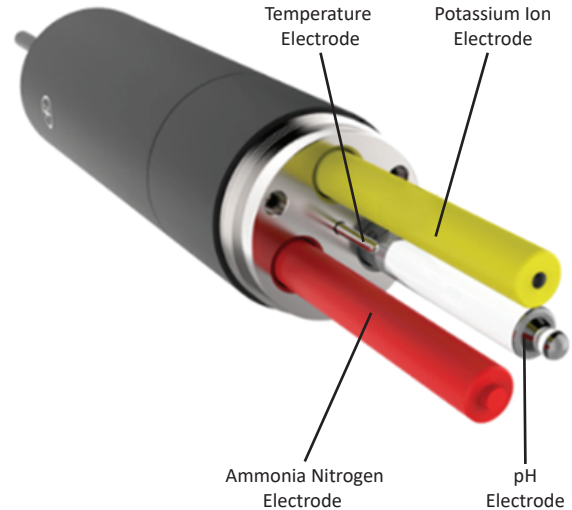


Figure 1
N900 Ammonia Nitrogen Sensor structure diagram

