



Digital Ammonia Nitrogen Sensor

Model: BH-485-NH



Brief Introduction

The BH-485-NH is digital online ammonia nitrogen sensor and with RS485 Modbus, it measures the ammonia nitrogen concentration by an ion selective electrode method. The ammonium ion selective electrode directly detects the ammonium ion in the water environment to determine the concentration of ammonia nitrogen. Use a pH electrode as a reference electrode for better stability. The concentration of ammonia nitrogen in the measurement process is easily interfered by potassium ions, so potassium ion compensation is required.

The digital ammonia nitrogen sensor is an integrated sensor that is composed of ammonium ion selective electrode, potassium ion (optional), pH electrode and temperature electrode. These parameters can mutually correct and compensate the measured value of ammonia nitrogen, and meanwhile achieve the measurement for multiple parameters.

Application

It is widely used to measure the value of ammonia nitrogen in the nitrification treatment and aeration tanks of the sewage treatment plants, industrial engineering as well as river water.

Technical Parameters

Measurement Range	NH ₄ N:0.1-1000 mg/L K ⁺ :0.5-1000 mg/L (Optional) pH:5-10 Temperature:0-40°C
Resolution	NH ₄ N:0.01 mg/l K ⁺ :0.01 mg/l(Optional) Temperature:0.1°C pH:0.01
Measurement Accuracy	NH ₄ N:±5 % or or ± 0.2 mg/L K ⁺ :±5 % of the measured value or ±0.2 mg/L (Optional) Temperature:±0.1°C pH:±0.1 pH
Response Time	≤2 minutes
Minimum Detection Limit	0.2mg/L
Communication Protocol	MODBUS RS485
Storage Temperature	-15 to 50°C (Non-frozen)
Working Temperature	0 to 45°C (Non-frozen)
Dimension size	55mm×340mm(Diameter*Length)
Level of Protection	IP68/NEMA6P;
Length of Cable	Standard 10-meter long cable, which can be extended to 100 meters

Outer Dimension: