SH-ISENH$_4$200 Ammonia digital probe

Overview

The SH-ISENH$_4$200 Ammonia Nitrogen digital probe includes temperature and pH compensation, RS485 interface and standard Modbus protocol, in-situ measurement, no reagents, no pre-treatment and low maintenance.

Product features

- pH and temperature-compensated electrodes for a wide range of sites
- Each electrode can be replaced independently, simple operation and low maintenance
- Fast response time, real-time detection of ammonia nitrogen in water bodies
- Corrosion-resistant housing, waterproof grade IP68, can work underwater for a long time
- RS485 communication interface, standard Modbus protocol for easy integration.

Technical parameters

Working Principle	Ion Selective Electrode method		
Measuring parameter	Ammonia	pH	Temp
Meas. range	(0.05~1000) mg/L	0~14	(0~50) °C
Repeatability	≤1 %	<0.1 pH	0.1 °C
Accuracy	±5% or ±0.1mg/L	<0.1 pH	0.1 °C
pH comp. range	4~10		
Zero drift (24h)	±1% F.S.		
Range drift (24h)	±3% F.S.		
Precision	Ammonia: 1-1000 mg/L: ±5% 0.1-1 mg/L: ±0.1 mg/L		
Detection limit	0.05 mg/L		
Resolution	0.01 mg/L		
Response time	< 30 seconds in a 180 mg/L standard solution		
Protection class	IP68		
Comm interface	RS485, standard Modbus protocol Baud rate 9600		
Dimensions	(ϕ50*251) mm, cable 10 m (customizable)		
Materials	316 Stainless-steel/titanium alloy available		
Weight	2 kg		
Operating voltage	9~36 Vdc		
Power absorption	0.5 W		
Calibration period	1~3 months (depending on site water quality environment)		
Operating temp.	(0~50) °C		

Product applications

- Environmental surface water, municipal and industrial wastewater, industrial process water