

SH-pH200 pH digital sensor

● Overview

The SH-pH200 pH digital sensor uses the glass electrode method, a corrosion-resistant housing, a built-in NTC temperature sensor and a compensation algorithm. The sensor has an RS485 interface and standard Modbus protocol.

● Product features

- Industrial-grade composite pH electrode for harsh operating environments
- NTC temperature compensation, accuracy up to $\pm 0.1^{\circ}\text{C}$
- Internal storage of calibration data
- Corrosion-resistant housing, waterproof grade IP68 for long-term underwater work
- RS485 communication interface, standard Modbus protocol for easy integration.



● Technical specifications

Working principle	Glass electrode method
Measurement range	pH (0~14); Temperature (0~50) °C
Accuracy	± 0.1 pH; ± 0.5 °C
Repeatability	<0.1 pH
Drift (24h)	<0.1 pH
Resolution	0.01 pH, 0.01 °C
Response time	<10 s
Protection class	IP68
Comm. interface	RS485, standard Modbus protocol, baud rate 9600
Dimensions	($\phi 33 \times 224$) mm/($\phi 16 \times 180$) mm, cable 10 m (customizable)
Materials	316 Stainless-steel/PVC/POM/Titanium alloy available
Weight	0.5 kg
Mounting threads	NPT3/4 thread on top, NPT3/4 male thread on bottom available
Operating voltage	9~36 Vdc
Power absorption	0.2 W
Calibration period	1-3 months
Max. depth	30 meters
Operating temp.	(0~50) °C

● Product applications

- Surface water, municipal and industrial wastewater, industrial process water, drinking water