

SH-ORP200 ORP digital sensor

● Overview

The SH-ORP200 Oxidation Reduction Potential digital sensor adopts industrial on-line electrodes, built-in NTC temperature sensor and corrosion-resistant shell. The sensor adopts RS485 interface and standard Modbus protocol, digital and intelligent design.

● Product features

- Industrial grade composite electrodes for harsh 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	(-2000~2000) mV
Accuracy	± 5 mV
Repeatability	± 1 mV
Drift (24h)	± 1 mV
Resolution	0.1 mV
Response time	<10 s
Protection class	IP68
Comm. interface	RS485, standard Modbus protocol, baud rate 9600
Dimensions	($\phi 33 \times 224$) mm, cable 10 m (customizable)
Materials	316 Stainless-steel/PVC/POM/Titanium alloy available
Mounting threads	NPT3/4 thread on top, NPT3/4 male thread on bottom available
Operating voltage	9~36 Vdc
Power absorption	0.2 W
Max. depth	30 meters
Operating temp.	(0~50) $^{\circ}\text{C}$

● Product Applications

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