Digital PH Sensor



Measurement Principle

The pH sensor is a digital PH sensor using RS485 communication interface and standard Modbus protocol. It adopts stainless steel corrosion-resistant casing, IP68 protection grade, built-in PT1000 temperature sensitive resistor and compensation algorithm, which has the advantages of high precision, long life and small drift, and is suitable for various harsh working environments.

Main Features

- Built-in PT-1000 temp. sensitive resistor, effective temperature compensation.
- Support replacement of electrode cores to reduce operation and maintenance costs.
- Industrial grade composite pH electrode, suitable for harsh working environment.
- Corrosion-resistant shell, waterproof grade IP68, can work underwater for a long time.
- RS485 communication interface, standard Modbus protocol, easy to integrate.

Typical Application

- Surface water, waterworks, aquaculture.
- Municipal sewage, industrial wastewater, sewage treatment, industrial process.

Specifications	
Measuring range	0-14 pH
Main material	316L Stainless steel ； Cable: PUR
Resolution	0.01 pH
Repeatability	±0.1 pH
Precision	±0.1 pH
Temperature range	-15-100℃
Temp. resolution	0.1℃
Temp. accuracy	0.5℃
Electrode withstand voltage	0-0.1Mpa
Electrode Temp. resistance	0-45℃ (Non-freezing)
Response time	<10s
Communication Interface	RS485，Standard Modbus
Operating Voltage	9-36V
Protection class	IP68/NEMA6P
Dimensions	Dia. 34mm* Length 252mm
Mounting thread	3/4 inch front and rear threads
Cable length	Standard cabel:10M，Max extended to 200M.