

ADA FLOW



pH electrode
pH-8001

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pH electrode pH-8001

pH electrode pH-8001 is a digital sensor with RS485 designed by our company for the aquaculture industry, which can be used to measure the change of pH/ORP value in an aqueous solution system within the range. The sensor with a standard RS485 Modbus RTU protocol interface, which can be connected with the host computer conducts remote communication.

Features

- Isolated power supply design, data stability, strong anti-interference ability
- Automatic/manual temperature compensation
- Automatically detect whether the temperature probe is disconnected or faulty, then switch to manual temperature compensation.
- Support USA/NIST/custom pH calibration solution, and user-defined ORP standard solution
- Communication: RS485 interface*1 (Modbus RTU protocol)

Applications

- Aquaculture
- Water testing
- Information data collection
- Internet of Things water quality
- Industrial process testing

Parameters

Parameters	Details
Measurement	pH/ORP in water
Measurement range	0.00-14.00pH, 1000.0mV
Resolution	0.01pH, 0.1.0mV
Temperature range	0 ~ 60°C@0.1°C
Sensor type	Composite electrode/ORP electrode
Accuracy	0.02pH, 0.5C,0.2mV
Output type	RS485 interface
Communication protocol	Standard MODBUS-RTU protocol
ID	1-255
Setting method	RS485 remote setting calibration and parameters
Power supply	6 ~ 30 VDC
Power consumption	30mA@12VDC

Touch the sensitivity...

pH electrode pH-8001

Wiring

Color	Red	Black	Green	White
Explanation	(6~30)V+ (default 12V+)	GND	485A	485B

Ordering code

pH8001-ST1-C0-CS5								Description
pH8001	-	-	-	-	-	-	-	Range: 0~14pH Temp range: 0~60°C Pressure resistance: 0.6MPa
Sensor type	ST1							Compact(Cable)
Compensation	C0							None
	C1							NTC 10K
	C2							NTC 2.252K
	C3							PT100
	C4							PT1000
Cable length		CS5						5m
		CS10						10m
		CS15						15m
		CSXX						XXm

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