Recorder   Flow   Pressure   Temp   Analyzer   Level

Datasheet

pH electrode

SUP-pH-8001

Supmea®

Datasheet

pH electrode
SUP-pH-8001

Supmea 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.

Applications

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

pH8001

Features

- ■ Compact structure and easy installation
- ■ 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)

Parameters	
Measurement	pH/ORP in water
Measurement range	0.00～14.00pH，±1000.0mV
Resolution	0.01pH，0.1mV
Temperature range	0～60℃@0.1℃
Sensor type	Composite electrode/ORP electrode
Accuracy	0.02pH 0.5℃ 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

Wiring

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

Supmea®

SUP-pH8001-ST1-C0-CS5									Description
SUP-pH8001	-	-	-	-	-	-	-	-	Range: 0～14pH Temp range: 0～60℃ 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