

Datasheet

Digital Electrode

SUP-PH9001

Supmea

Committed to process automation solutions

Tel: 86-15868103947

E-mail: info@supmea.com

www.supmea.com

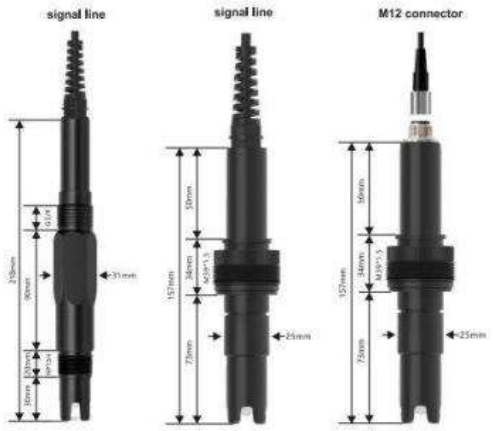
Datasheet

Digital Electrode
SUP-PH9001

The digital pH electrode, equipped with a digital interface (RS485 × 1), is designed for measuring pH variations in aqueous solutions within the specified measurement range. It supports standard RS485 Modbus RTU communication protocol and enables remote communication with a supervisory system.

Features

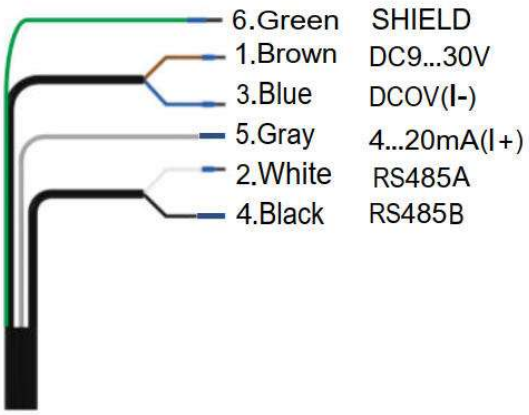
- Power supply and output are isolated to ensure electrical safety.
- Built-in protection circuits for power and communication chips, featuring strong anti-interference capability.
- Comprehensive protective circuit design enables reliable operation without additional isolation devices.
- The electronic module is integrated inside the electrode, providing excellent environmental resistance and easy installation and operation
- RS485 communication interface with Modbus RTU protocol, supporting bidirectional communication and remote command control.
- Provides additional electrode diagnostic information for enhanced intelligence.
- Integrated internal memory retains calibration and configuration data even after power-off.



Digital Electrode

Parameters	
Measuring Range	(0.00 ~ 14.00) pH
Resolution	0.01 pH
Accuracy	0.02 pH
Zero Potential	E0=7pH±0.25pH（15mV）
Temperature Compensation Mode	Automatic
Pressure Resistance	0.6MPa
Temperature Compensation	（0 ~ 80.0）℃
Temperature Resolution	0.01
Temperature Accuracy	0.3 °C
Response time	1s

Wiring



Wiring diagram