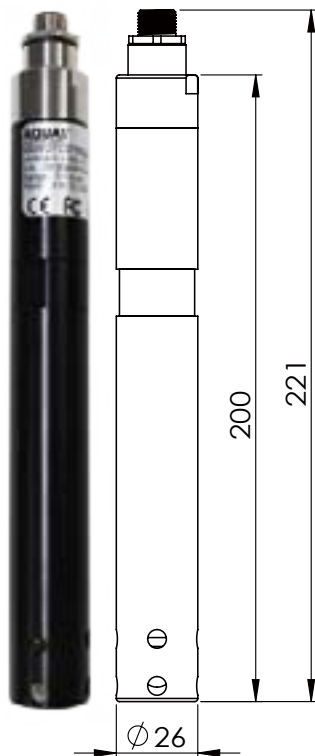


SMR04

RS485 Communication pH Analyzer



The pH Analyzer is connected directly via RS485 communication interface, providing simple, reliable, cost-saving process data with remote monitoring, calibration, configuration and diagnostics capabilities.

Housing in a robust IP68 proof enclosure, 1500 N tensile strength Kevlar reinforced cable, up to 1.2 km digital data transmission, the transmitter is ideally used in water/wastewater industry.

Typical Applications

Drinking water, surface water, groundwater, industry, water treatment, wastewater

Measurement Method

The analyzer complies with BS 2586:1979 and BS EN 60746-2: 2003 which consists of a pH electrode, a signal amplifier, and a reference electrode. The pH sensing electrode acts as a transducer that generates and transmits different levels of voltage based on the concentrations of free hydrogen ions in water. The amplifier increases the signal so that it can be measured. The isolated reference electrode produces a baseline signal that is compared to the response from the active pl_t electrode, generating a pH unit measurement.

Advantages

- Robust IP68 Water Submersible Enclosure, Solution Without Cabinet
- On-line Realtime Measurement
- Ultra Low Power Consumption, Ideal for Outdoor Applications
- Temperature Compensation
- High Reliability, Drift Free
- Surge Protection for Power and RS485 Communication
- 1.2 Km RS485 Digital Communication, Minimize Cabling and Engineering Cost
- Software Configuration Calibration and Data Monitoring
- Standard Modbus RTU Protocol, Direct Connected with PLC, HMI, Eliminate I/O Module Cost
- Onboard memory allowing users to easily calibrate and configure sensor at lab and distribute to various fields sites

Specifications

► General

- Output Signal: RS485 (Modbus RTU protocol), 19,200 bps, 8 data bits, no parity, 1 stop bit; 4~20 mA (optional)
- Data Resolution: 16 bits (0.001% FS)
- Surge Protection: 4000 V DC
- Power: 3.6~12 V DC ±10%, 20 mA
- Protection: polarity, overload, short circuit
- Safety: CE, FCC

pH sensor	
Measurement range	0 ~14 pH
Accuracy	±0.05 pH
Resolution	0.01 pH
Repeatability	±0.01 pH
Operating pressure	Max. 10 Kg/cm ²
Operating temperature	0 ~ 85 °C
Process flow rate	0.1 L/min
Response time	1 sec
Protection	IP68
Temperature sensor	pt1000
Temperature Measurement range	0 ~ 85 °C
Temperature Accuracy	±0.5 °C; ±0.1 °C (optional)
Process connection	M26x1.5
Sensor material	Glass
Housing material	POM; SS316L; Titanium
Dimension	Φ 26 X 221 mm
Weight	analyzer: approx. 150 g (POM); 500 g (SS316L); 400 g (Titanium) cable: 80 g/m



RoHS



Ordering

SMR04 - 3 - 1 - - -

Temperature Sensor

Built-in _____

Cable Length (m)

0 _____ 000
3 _____ 003
5 _____ 005
10 _____ 010

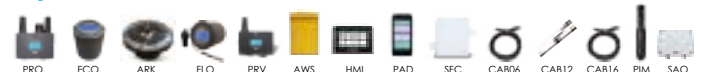
Cable Type

None _____ 0
PUR _____ 3

Housing

POM _____ 0
SS316L _____ 1
Titanium _____ 2

Optionals



Order	Description
PRO	Wireless Controller
ECO	Wireless Logger
ARK	Water Quality Monitoring Buoy
FLO	Open Channel Flow Meter
PRV	Wireless PRV Controller
AWS	Automatic Water Sampler
HMI	Multiparameter Controller
PAD	Handheld Meter
SFC	Flow Chamber
CAB06	Configuration cable (1.5 m, USB interface)
CAB12	2 ports RS485 cable
CAB16	4 ports RS485 cable
PIM02	Pipe mounting
SAO01	Analog output module(4~20 mA, 1 channel)

Specification and product information contained herein are subject to change without notice. Performance varies depending on hardware, software and overall system configuration. Warranty and RMA policy varies with countries, please check with your local distributors or visit www.aquas.com.tw/en