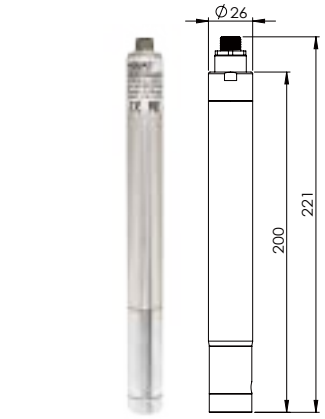
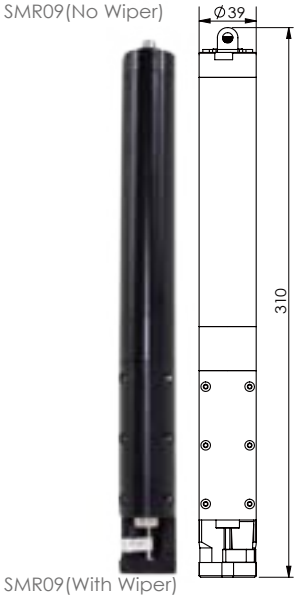
SMR09

RS485 Communication Dissolved Oxygen Analyzer



SMR09(No Wiper)



SMR09(With Wiper)

The Dissolved Oxygen 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

Surface water, groundwater, industry, fishiery

Measurement Method

It is based on fluorescent optical technology approved by the ASTM international Method D888-05.
Without calibration requirements and oxygen consumption, this technology allows measurement in all situations, especially in very low oxygen concentrations environment.

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
- Optional Auto Cleaning Wiper, Almost No Maintenance
- 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%, 5 mA
- Protection: polarity, overload, short circuit
- Safety: CE, FCC

Measurement range	0 ~ 20 mg/L(0 ~ 200%)
Accuracy	0.1 mg/L (0~8 mg/L); 0.2 mg/L (8~20 mg/L)
Resolution	0.01 mg/L
Repeatability	±0.5% FS
Light source	LED 495 nm
Operation pressure	5 Kgf/cm²
Operating temperature	0 ~ 50 °C
Process flow rate	Min, 0.1 m/sec
Response time	1 sec
Protection	IP68
Temperature sensor	NTC10K
Temperature measurement range	0 ~ 50 °C
Temperature accuracy	±0.5 °C; ±0.1 °C(optional)
Housing	SS316L; Titanium(optional)
Dimension	Φ 39 X 310 mm
Weight	analyzer: approx. 450 g (SS316L); 400 g (Titanium) cable: 80 g/m

ISO9001 Certification

1 Year Warranty

RoHS

Outstanding Award

Ordering

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Temperature Sensor
Buillt-in — 4

Cable Length (m)
0 — 000
3 — 003
5 — 005
10 — 010

Cable Type
None — 0
PUR — 3

Housing
SS316L — 1
Titanium — 2

Wiper
None — 0
Built-in — 1

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)

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