

SMR37

Ultra Low Range Oil in Water (PAHs) Analyzer

RS485 Communication. All-in-One Compact Housing.

Ultra low range oil in water (PAHs) Analyzer is connected directly via RS485 communication interface, providing simple, reliable, cost-saving process data with remote monitoring, calibration, configuration and diagnostic 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.

Advantages

- All-in-One Compact Housing, Built-in Transmitter and Sensors
- Robust IP68 Water Submersible Protection, Directly Installed in the Field, No Cabinet Required
- Reference Cell Features a Double Junction Design for Extended Service Life to Reduce Maintenance Time and Cost
- Plug & Play, On-line Realtime Measurement
- Ultra Low Power Consumption, Ideal for Outdoor Applications
- 1500 N Tensile Strength Kevlar Reinforced Cable
- Surge Protection for Power and RS485 Communication
- RS485 Digital Communication, Minimize Cabling and Engineering Cost
- Standard Modbus RTU Protocol, Direct Connected with PLC, HMI
- Sapphire Glass Windows to Prevent Scratch
- Innovative Nano Coating to Remain Window Clean
- Auto Cleaning Wiper, Less Maintenance
- Onboard Memory Allowing Users Easily Calibrate and Configure Sensor at Lab and Distribute to Various Fields and Sites
- AQCFG Software Tool for Data Monitoring, Calibration, Configuration and Diagnosis
- IECEx/ATEX Ex ia IIB T5 Ga Explosive Proof Certification

Applications

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

Measurement Method

It is based on fluorescent optical technology. A fluorometer generates the wavelength of light required to excite the analyte of interest, it selectively transmits the wavelength of light emitted, then it measures the intensity of the emitted light. The emitted light is proportional to the concentration of the analyte being measured.

Installation

Submersible, flow through



Specifications

General	
Output Signal	RS485 (Modbus RTU protocol), 19,200 bps, 8 data bits, no parity, 1 stop bit; 4~20 mA
Data Resolution	16 bits (0.001% FS)
Surge Protection	1,500 VDC
Power	12 VDC, 620 mA
Protection	Polarity, Overload, Short circuit
Safety	CE, FCC
PAHs	
Parameter	PAHs (Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Chrysene, benzo, dibenzo anthracene, ideno pyrene, benzo perylene)
Measurement Method	Fluorescence
Measurement Range	SMR37-1: 0~50/500 µg/L ; SMR37-2: 0~500/5,000 µg/L
Accuracy	±5% measured value
Resolution	0.1 µg/L
Repeatability	±3% measured value
Light Source	Xenon flash lamp
Operating Pressure	Max. 10 Kg/cm ²
Operating Temperature	0~50 °C
Process Flow Rate	0.1~10 m/s
Response Time	5 secs
Calibration Interval	Typical 24 months
Protection	IP68
Electrical Connection	M16X1.5 plug fixed cable, M12 connector, 5 pin
Housing	Titanium
Cable	Kevlar reinforced PUR cable, 1500N tensile strength
Dimensions	ø 68 X 282 mm
Weight	analyzer: approx. 1.7 Kg (Titanium) ; cable: 80 g/m

Ordering Codes

Ordering Codes

SMR37 - □ - 0 - □□ - 3 - 2 - 1 - □ - □

Measurement Range(µg/L)

0~500 _____ 1
0~5,000 _____ 2

Sensor

None _____

Cable Length (m)

5 _____ 005
10 _____ 010
Custom _____ 001~999

Cable Type

PUR _____

Housing

Titanium _____

Wiper

Built-in _____

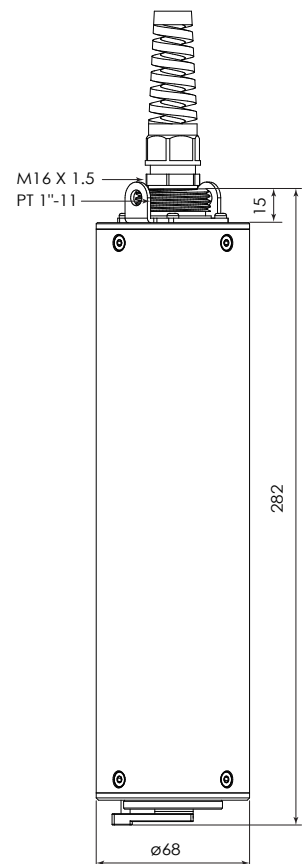
Wire Connection

Bare Wire _____ 0
M12 Connector _____ 1

Analog Output

None _____ 0
4~20 mA _____ 1

Dimensions



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AQUAS Inc.
Taipei Office
Add : 4F.-2, No. 56, Ln. 321, Yangguang St.,
Neihu Dist., Taipei City 11491, Taiwan. R.O.C.
T : +886-2-8797-5358#240
F : +886-2-2657-8926
service@aquas.com.tw

Taichung Office
Add : 5F., No. 190, Dadun 14th St., Nantun Dist.,
Taichung City 408, Taiwan. R.O.C.
T : +886-4-2326-8307