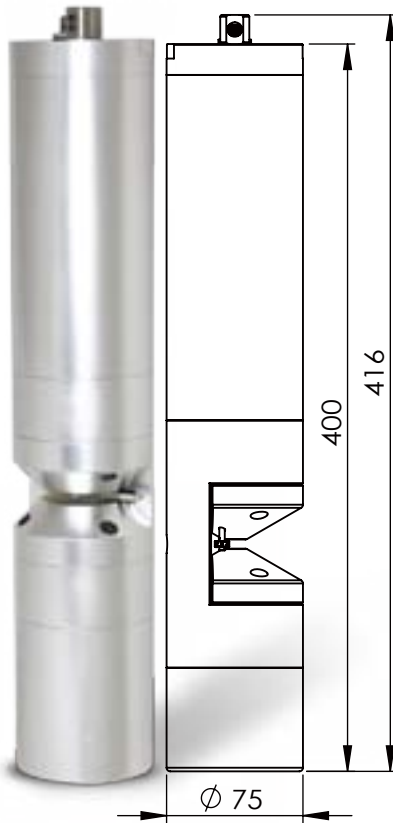


SMR75



RS485 Communication Total Nitrogen (TN) Analyzer

The Total Nitrogen (TN) 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, water treatment, wastewater

Measurement Method

The lamp emits UV-Vis light passing through the sample to be analysed. The spectrometer resolve the wavelength into 1 nm. Using the high resolution spectrum, field testing, lab experiment data and advanced algorithms to provide the concentration and eliminates mutual interferences such as chemicals, turbidity and color.

Advantages

- Robust IP68 Water Submersible Enclosure, Solution Without Cabinet
- On-line Realtime Measurement
- Ultra Low Power Consumption, Ideal for Outdoor Applications
- 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
- Turbidity or Total Suspended Solids Measurement and Compensation
- 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: 12 V DC $\pm 10\%$, 0.5A
- Protection: polarity, overload, short circuit
- Safety: CE, FCC

Measurement range	SMR75-1: 0~2 mg/L SMR75-2: 0~10 mg/L SMR75-3: 0~20 mg/L SMR75-4: 0~50 mg/L SMR75-5: 0~100 mg/L
Accuracy	$\pm 5\%$ in standard solution
Resolution	0.01 mg/L
Repeatability	$\pm 3\%$ in standard solution
Light source	UV-Vis lamp
Beam angle	180°
Light path length	5 mm, 10 mm, 35 mm
Process flow rate	Max. 3m/sec
Operation pressure	Max. 10 Kg/cm ²
Operating temperature	0 ~ 85 °C
Response time	<1 min
Protection	IP68
Turbidity (or total suspended solids) measurement range	SMR75-1: 0~100 NTU (or 0~200 mg/L) SMR75-2: 0~200 NTU (or 0~500 mg/L) SMR75-3: 0~500 NTU (or 0~1,000 mg/L) SMR75-4: 0~1,000 NTU (or 0~2,000 mg/L) SMR75-5: 0~2,000 NTU (or 0~4,000 mg/L)
Turbidity (or total suspended solids) accuracy	$\pm 5\%$ FS
Housing	Titanium
Dimension	$\Phi 75 \times 416$ mm
Weight	analyzer: approx. 1 Kg; Cable: 80g/m



RoHS



Ordering

Type

Refer to the table

Sensor

Turbidity _____ 2
Total Suspended Solids (TSS) _____ 3

Cable Length (m)

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

Cable Type

None _____ 0
PUR _____ 3

Housing

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)

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