



SOMQUALITY-NTU

Turbidity probe NTU

The measurement principle of the SOMQUALITY-NTU turbidity sensor is based on infrared light scatter at an angle of 90°. Thanks to the measurement at a wavelength of 880 nm and the wide detection range of 0 to 4'000 NTU, the sensor can be used in various water and wastewater treatment applications. Apart from turbidity, the SOMQUALITY-NTU also measures the medium temperature and the suspended solids content.

Features and advantages

- Municipal waste water treatment
- Industrial effluent treatment
- Water quality monitoring
- Sea water monitoring, fish farming, aquarium
- Process monitoring

Technical details

Turbidity

- Principle IR-scatter at 90°
5 to 4000 NTU in 5 ranges:
5 - 50 NTU
5 - 200 NTU
5 - 1000 NTU
5 - 4000 NTU
- Measurement range AUTOMATIC 0 - 4500 mg/L
Calibration :
Range 0 - 500 mg/L according to NF EN 872
Range >500 mg/L according to NF T 90 105 2
- Resolution 0.01 - 1 NTU - mg/L
- Accuracy < 5% of the reading
- Maximum refresh time < 1 s
- Temperature compensation via CTN
- Accuracy temperature ± 0.5°C
- Physical and environmental
Power supply 5 to 12 VDC

Power consumption	Standby: 40 μ A Average RS485 (1 measurement/s): 820 μ A Average SDI-12 (1 measurement/s): 4.2 mA Current pulse: 500 mA
Output	Modbus RS-485 (standard) SDI-12 (optional)
Dimension	27 mm x 170 mm
Weight	300 g (sensor + 3 m cable)
Material	PVC, DELRIN, Quartz, PMMA, Polyamide
Max. pressure	5 bar
IP classification	IP 68
Operation temperature	0-50 $^{\circ}$ C
Storage temperature	-10 $^{\circ}$ C to +60 $^{\circ}$ C

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