

## Turbidity Sensor



The turbidity probe utilizes infrared nephelometric technology, and is suitable for applications with a variety of sample media. Since there are no consumable components to replace, the follow-up costs are very low.

The intelligent sensor saves data such as calibration directly in the sensor. This enables „play-and-play“ usage without requiring recalibration.

Transfer of data is accomplished by means of a Modbus protocol.

### ADVANTAGES AT A GLANCE

- Calibration data stored directly in sensor
- For highly diverse applications
- Data transfer via Modbus RS-485
- No consumables
- For mobile or stationary applications

# TECHNICAL DATA

GENERAL		TURBIDITY MEASUREMENT	
Dimensions	Diameter: 27 mm Length: 170 mm	Measuring Principle	Optical, diffusion IR at 90°
Weight	300 g (sensor + 3 m cable)	Measuring Range	0 - 4000 NTU in 5 ranges: 0 - 50 NTU 0 - 200 NTU 0 - 1000 NTU 0 - 4000 NTU automatic
Material	PVC, Delrin®, quartz, PMMA, polyamide		0 to 4500 mg/l
Operating Temp.	0 to +50°C		Calibration:
Storage Temp.	-10 to +60°C		Range 0 - 500 mg/l according to NF EN 872
Communication	Modbus RS-485 (optional: SDI-12)		Range > 500 mg/l according to NF T 90 105 2
Connector	Specialized cable with Fisher connector or open ends	Resolution	0.01 to 1 NTU or mg/l; FNU
Power Requirement	5 to 9 V	Accuracy	± max. 5 % of the measured value
Energy Consumption	Standby: 40 µA Average (1 measurement/s): 820 µA	Response Time	< 5 s
Impulse Current	500 mA	Measuring Interval	< 1 s
Maximum Pressure	5 bar	Temp. Compensation	NTC
Protection Class	IP 68		

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QUESTIONS?

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