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WE MAKE LIQUIDS TRANSPARENT.

BlueTrace - Turbidity Sensor

The **BlueTrace - Turbidity Sensor** is a compact probe for the measurement of **Turbidity**, **Total Suspended Solids (TSS)** and **Temperature** in water. The sensor works according to the scattered light measuring principle and features an integrated temperature compensation.

Application Areas

Drinking Water
- Quality control
- Alarm systems

Wastewater
- Effluent monitoring
- Trend analysis
- Early detection of discharge

Process Measurement & Control Technology
- Process monitoring in industrial facilities
- Control of process water treatment
- Process optimization

Environmental Monitoring
- River water
- Surface water

Parameters

- **Turbidity (FNU)**
- **Total Suspended Solids (TSS)**
- **Temperature**

Functions & Features

- Adaptable Measuring Range
- 90° Scattered Light
- Easy Calibration
- Immersion & In-line Integration
- Integrated TSS Estimation
- Temperature Compensation
- Robust & Non-corrosive
- Modbus Interface

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Technical data

Power supply	10 - 32 V DC
Power consumption (typical)	0.5 W
Light source	860 nm
Material	Stainless steel 1.4404 / Titanium [optional]
Operation temperature range	-5 °C to +55 °C
Weight	0.6 kg
Dimensions	Length 146.1 mm; Ø 36 mm
Maximum pressure	6 bar
Interface	Modbus [RTU]
Art. no.	461 6780

Parameter details

Measuring principle	90° scattered light according to DIN EN 27027 / ISO 7027
Measuring range (Turbidity)	0 - 50 / 100 / 1000 / 4000 FNU
Measuring range (TSS)*	0 - 5 g/l
Measuring range (Temperature)	0 - 60 °C
Measuring accuracy (typical)*	3 % FS
Detection limit (typical)*	0.1 FNU/mg/l
Measuring interval	≥ 1 s

*TSS requires calibration to on-site specific composition. Accuracy and calibration depend on the composition of the medium.

Accessories

Immersion sensor holder with compressed air cleaning
Art. no. 462 1110

Automatic brush cleaning system
Art. no. 462 W00

Retractable armature
Art. no. 462 6700

BlueConnect Module
Art. no. 486 C000

Modbus USB Converter
Art. no. 486 S810

Modbus Tool
www.go-sys.de/en/downloads

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