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WE MAKE LIQUIDS TRANSPARENT.

BlueTrace Plus - Turbidity Sensor

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



Application Areas

Drinking Water
- 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)**

Functions & Features

- Adaptable Measuring Range
- 90° Scattered Light
- Robust & Non-corrosive
- Immersion & In-line Integration
- Integrated TSS Measurement
- Integrated Wiper
- Insensitive to Ambient Light
- Modbus Interface

GO Systemelektronik GmbH +49 431 5 80 80-0 +49 431 5 80 80-11 info@go-sys.de www.go-sys.de

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Technical data

Power supply	10 - 32 V DC
Power consumption (typical)	1 W
Light source	860 nm
Material	Stainless steel 1.4404 / Titanium [optional]
Operation temperature range	-5 °C to +55 °C
Weight	0.9 kg
Dimensions	Length 146 mm; Ø 48 mm
Maximum pressure	6 bar
Interface	Modbus [RTU]
Art. no.	461 6790

Parameter details

Measuring principle	90° scattered light according to DIN EN 27027 / ISO 7027
Measuring range (Turbidity)	0 - 50 / 200 / 1000 / 4000 FNU
Measuring range (TSS)*	0 - 5 g/l
Measuring accuracy (typical)*	3 % FS
Detection limit (typical)*	0.1 FNU
Measuring interval	≥ 1 s

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

Accessories



Flow assembly for BlueTrace Plus (PVC-U)
Art. no. 462 6755



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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