

## S461 ST



### Applications



Industrial water



Mining industry



Wastewater

## General features

The S461ST sensor is used for the optical measurement of suspended solids in industrial and process waters up to 300 g/l (depending on the type of sludge). The probe uses the dual sensor scattering measurement method.

- Reliable concentration measurement thanks to the use of the infrared optical measurement process
- Absorption method of pulsed infrared light
- Sensor body in AISI316
- Absence of mechanical moving parts
- Pre-processed measurement in the sensor that provides high sensitivity in low signal transmission
- Immediate installation and easy maintenance

## Applications

- Measurement of suspended solids and turbidity in biological purification processes
- Measurement of suspended solids and turbidity in industrial waters

## Technical specifications

<b>Measurement range</b>	Measuring ranges SS: 0-300 g/l depending on the type of sludge Turbidity measuring ranges: 0...4000 NTU
Measurement method	Absorption of light
Sensitivity	0.1 g/l
Repeatability	± 5%
Accuracy	± 0.5 g/l
Response time	T <sub>90</sub> < 60s
Working temperature	0...50°C
Max pressure	4 bar
<b>Body material</b>	SS316
O-ring	Viton®
Optics	Special epoxy
<b>Mechanical protection</b>	IP68 sensor & cable
<b>Power supply</b>	12... 24Vdc
Absorption	Max. 3W
Cable	10 m integral with the sensor
Calibration	By points
<b>Signal interface</b>	RS485 with standard Modbus RTU protocol