

## S461 TN



### Applications

- Drinking water
- Industrial water
- Fish farming
- Wastewater

## General features

The measurement is performed by using a 90° scattered light method compliant with ISO 7027 / EN 27027. The measuring method is based on the Tyndall effect. The turbidity of the medium is determined by the amount of scattered light.

Turbidity refers to the scattered component of a light beam which is diverted away from its natural course by optically denser particles in the medium (e.g. solid matter particles).

## Applications

Untreated water, surface water, process water, industrial or municipal water treatment plant discharge.

### Standard version

PVC and SS316 body with Modbus RTU RS485 interface.

### On request

Only AISI316 body ; 4-20 mA outputs

### 2 models available

**S461 TN** for immersion

**S461 TN INS** for insertion (in combination with S305-INS)

## Technical specifications

Measuring range	0...1000 NTU / 0...4000 NTU
Measuring method	90° Scattered light
Resolution	1 NTU for 0...1000 NTU range 1 NTU for 0...4000 NTU range
Accuracy	±2% for 0...1000 NTU range ±5% for 0...4000 NTU range
Repeatability	±5 NTU for 0...1000 NTU range ±20 NTU for 0...4000 NTU range
Response time	T <sub>90</sub> < 60s
Operating temperature	0...50°C (0...75°C with body in AISI316)
Maximum pressure	4 bar
<b>Body material</b>	Black PVC and SS316 (on request only AISI316)
O-ring	Viton® and silicone
Optics	Special glass with oleophobic treatment
<b>Mechanical protection</b>	IP68 sensor & cable
<b>Power supply</b>	12...24Vdc
Power consumption	max. 3W
Cable	10 mt integral with the sensor
Calibration	1-point and/or 2-point for scale
<b>Signal interface</b>	Modbus RTU standard protocol RS485



**S305-INS**  
probe holder  
for insertion  
into the pipe