

TURBIDITY SENSOR

Controllers

Sensors

Analysers

Samplers

Flow

Level

Pressure

Web remote control

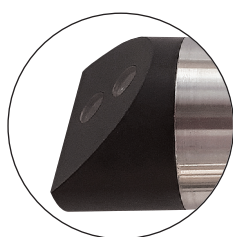
Accessories



General features S461 TN

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).

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.



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 SS316 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	0,01 NTU for 0...1000 NTU range 0,01 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	$T_{90} < 60s$
Operating temperature	0...50 °C (0...75 °C with body in SS316)
Maximum pressure	4 bar
Body material	Black PVC and SS316 (on request only SS316)
O-ring	Viton® and Silicon
Optics	Special Glass with oleophobic treatment
Mechanical protection	IP68 Sensor + cable
Power supply	12...24Vdc
Power consumption	max. 3W
Cable	10 mt integral with the sensor
Calibration	1-point and/or 2-point for scale
Signal interface	Modbus RTU Standard Protocol RS485



S305-INS
probeholder
for insertion
into the pipe