

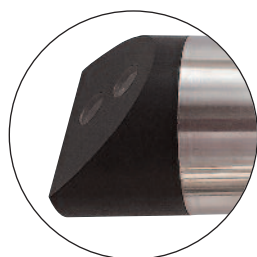


TURBIDITY PROBE



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 and well water, surface water, drinking water, process water, industrial and municipal wastewater seawater

Available versions with PVC body, with 4...20mA outputs

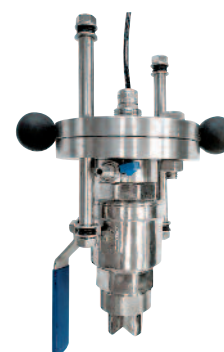
2 models available

S461 TN for immersion

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

Technical specifications

| | |
|-----------------------|---|
| Measuring range | 0...1000 NTU with autorange |
| Measuring method | 90° Scattered light |
| Accuracy | ±2% at the measuring point range 0...10 NTU ±5% at the measuring point range 0...100 NTU ±10% at the measuring point range 0...1000 NTU |
| Ripeatability | ±0.05 NTU range 0...10 NTU ±0.5 NTU range 10...100 NTU ±5 NTU range 100...1000 NTU |
| Response time | T ₉₀ < 60s |
| Operating temperature | 0...50 °C |
| 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 for scale with formazin standard solution |
| Signal interface | Modbus RTU Standard Protocol RS485 (4...20mA optional) |



S305-INS
probeholder
for insertion
into the pipe