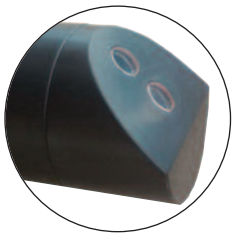
LOW RANGE TURBIDITY SENSOR

General features S461 LT

Turbidity refers to the scattered component of a light beam which is diverted away from its natural course e 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.



Chemitec DIGITAL SENSORS

Applications

Drinking water, process industrial water, low turbidity waters, immersion or by-pass installation

Standard version

PVC Body and Modbus RTU RS485 interface

On request

SS316 body;
4…20 mA outputs

Technical specifications

Measuring range	0…10 NTU / 0…100 NTU
Measuring method	90° Scattered light
Resolution	0,01 NTU for 0…10 NTU range 0,1 NTU for 0…100 NTU range
Accuracy	±1% for 0…10 NTU range ±5% for 0…100 NTU range
Ripeatability	±0.05 NTU for 0…100 NTU range ±0.5 NTU for 0…100 NTU range
Response time	T_{90} < 60s
Operating temperature	0…50 °C (0…75 °C with SS316 optional body)
Maximum pressure	4 bar
Body material	Black PVC (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

S461-LT with Flow cell