Suspended solids sensor

S461 S

Applications

- Industrial water
- Chemical industry
- Paper mills
- Wastewater

General features

Turbidity is a reduction of water transparency due to the presence of suspended solids, consisting of very fine particles that cannot settle in a reasonably short time.

The particles in suspension determine an absorption of light radiation according to the number and size of the particles themselves.

Applications

Sludges from biological processes, chemical industry paper mills, food, extraction systems: quarries, tunnels, aggregate extraction

Standard version

AISI316 body with Modbus RTU RS485 interface

On request

Only PVC body; 4-20 mA outputs

2 models available

S461 S for immersion
S461 S INS for insertion
(in combination with S305-INS)

Chemitec DIGITAL Sensors

Technical specifications

Measuring range	0...30 g/l MLSS of WWTP - on request 0...100 g/l Kaolin reference
Measuring method	Absorption of light
Resolution	0.1 g/l
Accuracy	± 0.3 g/l
Repeatability	± 0.5 g/l
Response time	T_{90} < 60s
Operating temperature	0...50°C
Maximum pressure	4 bar
Body material	SS316 (on request only Black PVC
O-ring	Viton®
Optics	Special epoxy
Mechanical protection	IP68 sensor & cable
Power supply	12...24Vdc
Power consumption	Max. 3W
Cable	10 mt integral with the sensor
Calibration	By points
Signal interface	Modbus RTU standard protocol RS485

S305-INS
probe holder
for insertion
into the pipe