

# PROBE FOR SUSPENDED SOLIDS



## General features

Turbidity is a decrease of water transparency due to the presence of suspended solid, t consist of very fine particles, unable to settle in a reasonably short time.



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

By comparing the absorption of the test sample with values derived from a known calibration curve it is possible to determine the measured value.

## Applications

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

## Options:

PVC body, 4 to 20mA outputs

## Technical specifications

Models	S461S – for immersion	S461S INS – for insertion (in combination with S305/INS)
Measuring range	0 ÷ 30 g/L	
Measuring method	Absorption of light	
Precision	± 3% of the f.s.	
Repeatability	98 %	
Response time	5 sec. to reach the 90% of the value	
Operating temperature	0 ÷ 60°C	
Maximum pressure	4 bar	
Body material	Black PVC and AISI 316	
O-ring	Viton®	
Optics	Special glass	
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 (4 ÷ 20mA optional)	