

# Suspended Solids

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91S131100



The eCHEM optical sensor for solid measurements is a process- and immersion sensor for measuring solid particle content. The measurement is based on multi-channel technology using the 90° scattered light method.

### Applications

- Sludges from biological processes
- Paper mills
- Food processing
- Scrubber systems
- Sewage treatment plants: primary sludge, sludge, return sludge, digested sludge
- Outlets

### Accessories

- Cable: Extension cables of 0.3 m, 2 m, 10 m, 25 m
- Controller: TriBox3, TriBox Mini, HS100

### Technical Specifications

OPERATION AND SYSTEM CONFIGURATION		PERFORMANCE CHARACTERISTICS
<b>Measurement principle</b>	90° scattered light method	90 % of the value in 5 seconds
<b>Measuring method</b>	Nephelometry	98 %
<b>AUXILIARY POWER</b>		On controller, through analytical multipoint determination
<b>Electrical connection</b>	8-pin M12 plug	
<b>Power supply</b>	12...24 V	IP68
<b>Power consumption</b>	3 W	
<b>INPUT PARAMETERS</b>		
<b>Measuring ranges</b>	0...30 g/L	0...+60 °C
<b>Cable specification</b>	black PUR (halogen free), shielded, M12 plug	4 bar
<b>Measurement wavelength</b>	880 nm	
<b>OUTPUT SIZES</b>		
<b>Output signal</b>	RS-485, Modbus RTU	~ 42 mm x 210 mm
<b>Accuracy</b>	± 3 % FS	Stainless steel 1.4401 housing, window with epoxy glue, Viton® O-ring
<b>Data interface</b>	RS-485, Modbus RTU	1" GAS