

Suspended Solids

91S131100



The eCHEM optical sensor for solid measurements is a process- and immersion sensor for measuring solid particle content. The measurement is based on measurement of attenuation.

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

Measurement technology	Optical measurement by means of attenuation	
Measurement principle	Absorption / attenuation	
Parameter	TSS	
Measuring range	0...30 g/L	
Measurement accuracy	± 3 % of FS	
Measurement wavelength	880 nm	
Response time	90 % of value in 5 sec	
Housing material	stainless steel 1.4401	
Dimensions (L x Ø)	210 x 42 mm	~ 8.3" x 1.7"
Weight	1.64 kg (with 10 m cable)	~ 3.6 lbs (with 10 m cable)
Process connection	1" GAS	
Interface	RS-485, Modbus RTU	
Power consumption	3 W	
Power supply	12...24 VDC (± 10 %)	

Connector	8-pin M12-plug	
Maintenance effort	≤ 0.5 h/month (typical)	
Calibration/maintenance interval	24 months	
System compatibility	Modbus RTU	
Warranty	1 Year (EU: 2 years) on electronics; All wearing parts are not included in the warranty	
Max. pressure	4 bar	~ 58 psig
Protection type	IP68	NEMA 6P
Sample temperature	0...+60 °C	~ +32 °F... +140 °F
Ambient temperature	0...+60 °C	~ +32 °F... +140 °F