

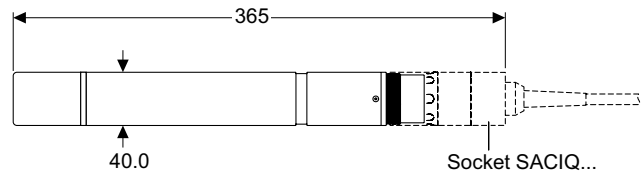


Digital suspended solids sensors ViSolid®

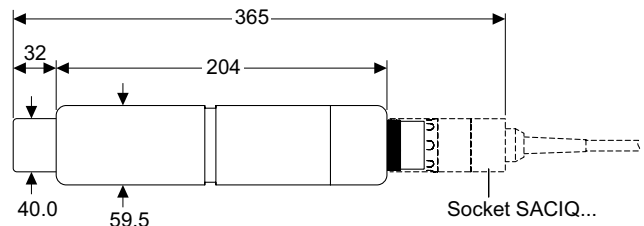
Optical sensors for the in-situ use to measure suspended solids via scattered light and direct back-scattering with ultrasonic cleaning system

We would like to inform you about the application range on our website

ViSolid® 700 IQ



ViSolid® 700 IQ SW



Technical Data

Model	ViSolid® 700 IQ	ViSolid® 700 IQ SW*
Measuring method	Procedure for measuring scattered light	
Measuring range	g/l SiO ₂ 0 ... 300 g/l SiO ₂ % SiO ₂ 0 ... 30% SiO ₂ g/l TSS 0 ... 1000 g/l TSS % TSS 0 ... 100% TSS	
Resolution	g/l SiO ₂ Automatic according to measuring range 0.1 mg/l ... 1 g/l % SiO ₂ Automatic according to measuring range 0.001 % ... 0.01 % g/l TSS Automatic according to measuring range 0.1 mg/l ... 1 g/l % TSS Automatic according to measuring range 0.001 % ... 0.1 %	
Accuracy	Depends on application and/or user calibration Matrix type I Process variation coefficient according to DIN 38402 part 51 <2 % Matrix type II Process variation coefficient according to DIN 38402 part 51 <4 %	
Calibration	Typical sludge characteristics stored: matrix type 1, matrix type 2 Calibration by user: adjustment via correction factor, 1-point or multi-point calibration possible	
Cleaning System	Ultrasound cleaning system	
SensCheck	Contamination detection of optical window; failure of cleaning system	
Pressure Resistance	10 bar (incl. sensor connection cable)	
Ambient Conditions	Operating temperature: 32 ... 140 °F (0 ... 60 °C); ultrasonic cleaning system: 32 ... 140 °F (0 ... 60 °C) (overheating protection); Storage temperature: 23 ... 149 °F (-5 ... +65 °C)	
Electrical connections	2-wire shield cable with quick fastener to sensor	
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation	
Certifications	CE	
Mechanical	Measuring window: Sapphire; Sensor body: V4A stainless steel 1.4571; Sensor head: V4A stainless steel 1.4571; Protection rating: IP 68	Measuring window: Sapphire; Sensor-body: Titanium, POM Sensor head: Titanium; Protection rating: IP 68
Weight (without cable)	Approx. 2.18 lb (900 g)	Approx. 3.13 lb (1420 g)
Warranty	2 years for defects in quality	

* SW: Sensor as sea water model (with plastic arming (POM))

Model	Description	Order No.
ViSolid® 700 IQ	Digital suspended solids sensor with integrated ultrasonic cleaning (please order cable separately)	600012
ViSolid® 700 IQ SW	Like ViSolid® 700 IQ, but as a sea water model	600013



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