

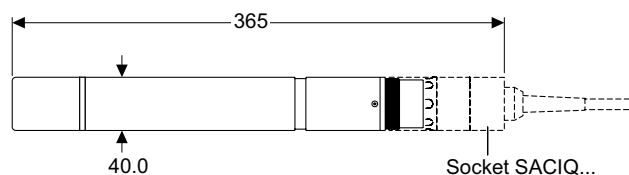
Digital suspended solids sensors ViSolid®



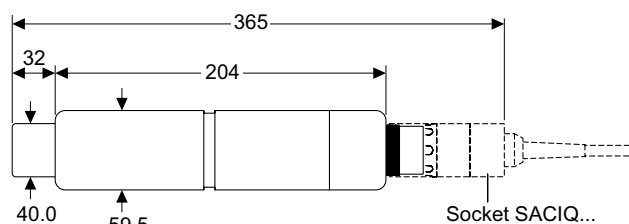
Optical sensors for the in-situ use to measure suspended solids via scattered light and direct back-scattering with ultrasonic cleaning system

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 SiO₂ 0 ... 300 g/l SiO₂ % SiO₂ 0 ... 30% SiO₂ g/l TSS 0 ... 1000 g/l TSS % TSS 0 ... 100% TSS		
Resolution	g/l SiO₂ Automatic according to measuring range 0.1 mg/l ... 1 g/l % SiO₂ 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	<i>Depends on application and/or user calibration</i> 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