



## **TSS Titanium2 sc Suspended solids probe, titanium, immersion style, aggressive media**

**Product #:** LXV329.99.10001

**AED Price:** Contact Hach

### **Titanium housing for use in aggressive media: TSS TITANIUM2 sc**

Digital process probe for turbidity and suspended solids measurements. For use in aggressive fluids. Installation in open basins and channels.

The TSS sc probes can measure both on-line

Suspended Solids and Turbidity in one instrument. This flexibility enables the measurement of both parameters under the same application.

They have a double optical system with two pulsating infrared LEDs and four receivers. As the transmitted light is scattered, the receivers pick up the incident light at 90° and 120° angles effectively doubling the accuracy of the instrument. This eight channel measurement

system, with an integrated bubble and temperature

compensating software, enables the instrument to have a wide measuring range that effectively covers most applications, from the darkest pre-treated water to the freshest of spring waters, with one instrument.

TSS sc titanium probes are used for all applications in which aggressive media can attack stainless steel.

TSS TITANIUM2 sc is resistant to many organic and inorganic acids, lyes and chloride-containing solutions.

**TSS sc probes have been specially developed for industrial applications**

**Measures both turbidity and suspended solids**

**8 measurement signals cover the total range and deliver measured values in conformity with the relevant standards**

**Excellent stability thanks to comprehensive compensation for interference factors**

**TSS sc has a unique compensation system to overcome the effects of air bubbles**

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### **Specifications**

Accuracy:	Turbidity up to 1000 FNU/NTU: < 5 % of the measured value ±0.01 NTU
Ambient temperature:	0 - 60 °C (briefly 80 °C)
Application:	Titanium2 Corrosive Environments
Automatic wiper:	No
Cable length:	10 m (optional extension cables available)
Calibration:	Turbidity (TRB): Factory calibrated
	Solids (TS): To be calibrated by customer on site
	Zero point: Permanently calibrated in the factory
Calibration method:	Turbidity: Formazin or Stablcal Standard (at 800 NTU). Requires a calibration kit.

	Suspended Solids: Sample specific, based on gravimetric analysis with a correction factor procedure.
Controller compatibility:	SC200, SC1000, SC4500. All controllers sold separately
Diameter:	40 mm
Flow:	Max. 3 m/s (the presence of air bubbles affects the measurement)
Installation style:	User Defined
Length:	330 mm
Maintenance interval:	1 h/month
Material:	Gasket: FKM; Wiper: PA (GF), TPV
Max Temperature:	60 °C
Measurement method:	Combined multiple beam alternating  light method with infrared diode  system and beam focussing  Turbidity (TRB): 2-channel 90° scattered light measurement  in accordance with DIN EN ISO 7027,  wavelength = 860 nm  Solids (TS): 120° scattered light measurement,  wavelength = 860 nm
Measuring range:	Turbidity (TRB): 0.001 - 9999 NTU  Solids (TSS): 0.001 - 500 g/L
Model:	TSS Titanium sc
Mounting configurations:	Immersion
Operating temperature range:	0 - 60 °C
Parameter:	Turbidity, Suspended Solids
Pressure range:	<lte/> 10 bar or <lte/> 100 m
Repeatability:	TSS content: < 4 %  Turbidity: < 3 %
Response time:	1 - 300 s adjustable
Special notes:	Installation note:  Distance sensor–wall  > 50 cm (Turbidity)  > 10 cm (TSS)
Warranty:	24 months
Weight:	approx. 1.6 kg
What's included?:	Turbidity & Suspended Solids sensor, user manual

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## What's included?

Turbidity & Suspended Solids sensor, user manual

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## Required Accessories

- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, without power cord (Item LXV525.99A11551)
- SC4500 Controller, Prognosys, 5x mA Output, 1 digital Sensor, 100-240 VAC, without power cord (Item LXV525.99A11501)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 24 VDC, without plug (Item LXV525.99Z11551)