



## **TSS Titanium7 sc Suspended solids probe, titanium, immersion style, seawater**

**Product #:** LXV330.99.10001  
**AED Price:** Contact Hach

### **Titanium housing for use in strongly saline media: TSS TITANIUM7 sc**

Digital process probe for turbidity and suspended solids measurements. Suitable for seawater and strongly saline media. 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 TITANIUM7 sc is especially suitable for seawater. The probe is used in seawater desalination plants or

in measuring stations that come into contact with seawater.

### **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 NTU: < 5 % of measurement value or $\pm 0.01$ NTU, whichever is greater NTU: 5 % of measured value or $\pm 0.01$ NTU, whichever is greater
Ambient temperature:	0 - 60 °C (briefly 80 °C)
Application:	Titanium7 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 Stabcal 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 focusing
	Turbidity (TRB): 2-channel 90° scattered light measurement in accordance with DIN EN ISO 7027, wavelength = 60 nm
	Solids (TS): 90° and 120° scattered light measurement, wavelength = 60 nm
Measuring range:	Turbidity (TRB): 0.001 - 9999 NTU
	Solids (TSS): 0.001 - 500 g/L
Model:	TSS Titanium7 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

## What's included?

Turbidity & Suspended Solids sensor, user manual

## 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)