



## **TSS W sc Inline suspended solids probe, stainless steel, with wiper**

**Product #:** LXV324.99.30001

**AED Price:** Contact Hach

### **From spring water to sludge - even under the most difficult conditions**

Digital process probe for turbidity and suspended solids measurements. With wiper to maintain accuracy. For the installation in tanks and closed vessels with a ball valve armature.

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.

The probes are made of polished stainless steel with a scratch resistant and easy to clean sapphire window design to withstand harsh environments.

**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 measurement value or $\pm 0.01$ NTU, whichever is greater
Ambient temperature:	0 - 60 °C (briefly 80 °C)
Application:	Standard
Automatic wiper:	Yes
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:	Ball Valve Insertion
Length:	332 mm
Maintenance interval:	1 h/month
Material:	Optics Carrier and Sleeve: stainless steel 1.4460 / stainless steel 1.4571; Wiper Arm: PA (GF); Wiper Rubber: TPV; Wiper Shaft: stainless steel 1.4571
Max Temperature:	50 °C
Measurement method:	Combined multiple beam alternating light method with infrared diode system and beam focusing
Measuring principle:	Turbidity (TRB): 2-channel 90° scattered light measurement in accordance with DIN EN ISO 7027, wavelength = 860 nm
	Solids (TS): 90° and 120° scattered light measurement, wavelength = 860 nm
	Combined multiple beam alternating
	light method with infrared diode
	system and beam focussing
Measuring range:	Turbidity (TRB): 2-channel 90° scattered light measurement
	in accordance with DIN/EN 27027/ISO 7027,
	wavelength = 860 nm
	Solids (TS): 120° scattered light measurement,
	wavelength = 860 nm
Model:	TSS W sc
	Insertion
Mounting configurations:	
Operating temperature range:	0 - 50 °C
Parameter:	Turbidity, Suspended Solids
Pressure range:	< 6 bar or < 60 m
Repeatability:	TSS content: < 4 %
Response time:	Turbidity: < 3 %
	1 - 300 s adjustable
	With Wiper for Simple Inline Installation
	Installation note:
	Distance sensorwall
Special Features:	> 50 cm (Turbidity)
	> 10 cm (TSS)
	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)