



## **TSS W sc Suspended solids probe, stainless steel, wiper, immersion style**

**Product #:** LXV324.99.10001

**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. 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.

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**

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|----------------------|--|
| Accuracy:            | Turbidity up to 1000 NTU: < 5% of the measured value $\pm 0.01$ NTU                                  |
| Ambient temperature: | 0 - 60 °C (briefly 80 °C)  |
| Application:         | Standard   |
| Automatic wiper:     | Yes  |
| Cable length:        | 10 m (optional extension cables available)   |
| Calibration:         | Turbidity: Factory calibrated  |
|                      | Solids (TSS): 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. |

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|------------------------------|--|
| 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:          | Tank Immersion   |
| Length:                      | 330 mm   |
| Maintenance interval:        | 1 h/month  |
| Material:                    | Gasket: FKM; Wiper: PA (GF), TPV   |
| 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                            |
|                              | 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   |
| Measuring range:             | Turbidity (TRB): 0.001 - 9999 NTU  |
|                              | Solids (TSS): 0.001 - 500 g/L  |
| Model:                       | TSS W sc   |
| Mounting configurations:     | Immersion  |
| Operating temperature range: | 0 - 50 °C  |
| Parameter:                   | Turbidity, Suspended Solids  |
| Pressure range:              | < 6 bar or < 60 m  |
| Repeatability:               | TSS content: < 4 %   |
|                              | Turbidity: < 3 %   |
| Response time:               | 1 - 300 s adjustable   |
| Special Features:            | With Wiper   |
| 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

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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)