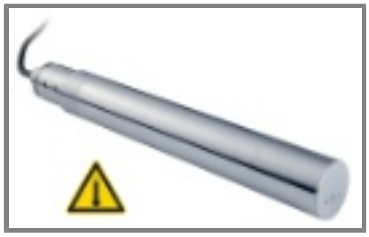

# TSS HT sc Suspended solids probe, ss, for high temp., immersion style

**Product #:** **LXV325.99.10001**

EUR Price: Contact Us
Ships within 2 weeks

## For use at temperatures up to 90°C: TSS HT sc

Digital process probe for turbidity and suspended solids measurements. For use in high temperature range. 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 HT sc optics and electrical systems are coated with a special material to withstand operating temperatures of 90°C and pressures of up to 10 bar. The ability to withstand these conditions without the hassle of flow-through cells or cooling lines makes it the probe of choice for process control.

**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 FNU/NTU: < 5 % of the measured value ±0.01 NTU |
| Ambient temperature: | 0 - 60 °C (briefly 80 °C) |
| Automatic wiper: | No |
| Cable length: | 10 m (optional extension cables available) |
| Calibration: | Turbidity (TRB): Factory calibrated<br>Solids (TS): To be calibrated by customer on site<br>Zero point: Permanently calibrated in the factory |
| Calibration method: | Turbidity Formazin or Stablcal Standard (at 800 NTU). Requires a calibration kit.<br>Suspended Solids Sample specific, based on gravimetric analysis with a correction factor procedure. |
| Controller compatibility: | SC200, SC1000 |

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| Diameter: | 40 mm |
| Flow: | Max. 3 m/s (the presence of air bubbles affects the measurement) |
| Includes: | Turbidity & Suspended Solids sensor, user manual |
| Length: | 330 mm |
| Maintenance interval: | 1 h/month |
| Material: | Gasket: FKM; Wiper: PA (GF), TPV |
| Max Temperature: | 90 °C |
| Measurement method: | Combined multiple beam alternating<br>light method with infrared diode<br>system and beam focussing<br>Turbidity (TRB): 2-channel 90° scattered light measurement<br>in accordance with DIN EN ISO 7027,<br>wavelength = 860 nm<br>Solids (TS): 120° scattered light measurement,<br>wavelength = 860 nm |
| Measuring range: | Turbidity (TRB): 0.001 - 9999 NTU<br>Solids (TSS): 0.001 - 500 g/L |
| Model: | TSS HT sc |
| Mounting configurations: | Immersion |
| Operating temperature range: | 0 - 90 °C |
| Parameter: | Turbidity, Suspended Solids |
| Pressure range: | <lte/> 10 bar or <lte/> 100 m |
| Repeatability: | TSS content: < 4 %<br>Turbidity: < 3 % |
| Response time: | 1 s < T90 < 300 s (adjustable) |
| Special notes: | Installation note:<br>Distance sensor–wall<br>> 50 cm (Turbidity)<br>> 10 cm (TSS) |
| Weight: | approx. 1.6 kg |

## What's in the box

Turbidity & Suspended Solids sensor, user manual