



TSS HT sc Triclamp Suspended solids probe, stainless steel, for high temperatures, ball valve fitting

Product #: LXV325.99.20001

AED Price: Contact Hach

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 tanks and closed vessels with a welded TRICLAMP branch piece.

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

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:	High temperature
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:	Weld On TriClamp Fitting, High Temperature
Length:	Inline sensor (TriClamp): 332 mm
Maintenance interval:	1 h/month
Material:	Gasket: FKM; Wiper: PA (GF), TPV
Max Temperature:	90 °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 = 860 nm
	Solids (TS): 90° and 120° scattered light measurement, wavelength = 860 nm
Measuring principle:	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 HT sc
Mounting configurations:	TriClamp
Operating temperature range:	0 - 90 °C
Parameter:	Turbidity, Suspended Solids
Pressure range:	< 10 bar or < 100 m
Repeatability:	TSS content: < 4 % Turbidity: < 3 %
Response time:	1 - 300 s adjustable
Special Features:	with Triclamp
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

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)