



TSS EX1 sc Inline suspended solids probe, stainless steel, ATEX

Product #: LXV328.99.30001

AED Price: Contact Hach

Measurements in potentially explosive atmospheres (ATEX Zone 1): TSS EX1 sc

Digital process probe for turbidity and suspended solids measurements, for use in potentially explosive atmospheres (ATEX Zone 1). 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

Specifications

Accuracy: Turbidity up to 1000 FNU/NTU: < 5 % of measurement value or ±0.01 NTU, whichever is greater

Ambient temperature: 0 - 50 °C

Application: Hazardous locations

Automatic wiper: No

Cable length: 10 m (optional extension cables available)

Calibration: Turbidity: Factory calibrated

Suspended solids: 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: 48.5 mm Flow: Max. 3 m/s (the presence of air bubbles affects the measurement) Installation style: **Ball Valve Insertion** 488 mm Length: Maintenance interval: 1 h/month Material: Optics Carrier and Sleeve: stainless steel 1.4460 / stainless steel 1.4404; Wiper Arm: stainless steel 1.4581; Wiper Rubber: silicone rubber (standard) Optional: FKM/FPM (LZX578); Wiper Shaft: stainless steel 1.4104 50 °C Max Temperature: Combined multiple beam alternating light method with infrared diode system and beam focusing Measurement method: Turbidity (TRB): 2-channel 90° scattered light measurement in accordance with DIN EN ISO 7027, wavelength = 860 nmSolids (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 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 EX1 sc Mounting configurations: Insertion -10 - 50 °C Operating temperature range: Parameter: Turbidity, Suspended Solids <lte/> 10 bar or <lte/> 100 m Pressure range: TSS content: < 4 % Repeatability: Turbidity: < 3 % 1 - 300 s adjustable Response time: Special Features: Simple Inline installation Installation note: Special notes: Distance sensor-wall > 50 cm (Turbidity) > 10 cm (TSS)

24 months

2.7 kg

Warranty:

Weight:

What's included?

Turbidity & Suspended Solids sensor, user manual