



## TSS Portable Handheld Instrument for Turbidity, Suspended Solids, and Sludge Level System

**Product #:** LXV322.99.00002  
**ZAR Price:** Contact Hach  
**Ships within 3-5 weeks**

### TSS Portable Hand-held Turbidity, Suspended Solids, and Sludge Blanket Level Instrument

Compact instrument for analytical determination by continuous measurement mode with integration time setting.

Adjustment of up to 5 measuring points, storage of measuring values with name, date and time. Shockproof.

Combined multiple beam alternating light method with infrared diode system and beam focusing; wavelength 860 nm. The measurement ranges for turbidity and suspended solids are: 0.001 - 9999 FNU and 0.001 - 400 g/L respectively.

#### Three Parameters in One Instrument

The Hach TSS Portable Hand-held Turbidity, Suspended Solids, and Sludge Blanket Level Instrument's unique multi-beam alternating light method with infrared diode system gives it a broad measuring range for both turbidity and suspended solids in one portable handheld instrument.

#### Multiple Calibration Curves for Convenience

It stores up to four different calibration curves for suspended solids and one for turbidity. There's no need for constant re-calibration for different locations or types of sludge.

#### Easy Sludge Blanket Levels

The sludge blanket level can be measured by setting the units to mg/L, g/L or percent. Calibrate the instrument and then slowly lower the sensor into the clarifier. The suspended solids concentration will significantly increase as it reaches the sludge blanket level. Once the blanket level is reached, examine the sensor cable which is marked every meter to determine the sludge blanket level depth from the water surface.

#### Air Bubble Compensation for Accuracy

The instrument software automatically compensates for air bubbles to prevent its influence on the measurement. Turbidity is pre-calibrated with a calibration curve stored in the instrument. For suspended solids, each of the calibration curves can be closely adjusted to the laboratory results because each calibration curve can use up to three points per curve plus a zero value.

#### Durable Materials for Long Life

The probe is made of polished stainless steel with a scratch-resistant sapphire window to withstand harsh environments. Polished stainless steel helps keep particles from sticking to the surface of the probe. The internal memory stores up to 290 measuring values, including time, date, measurement, location, and homogeneity. Three operating modes are available: single, interval, or continuous.

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### Specifications

Cable Length:	10 m cable with marks for distance
Current Input:	Approx. 60 mA
Diameter:	40 mm
Dimensions:	Probe (Ø X L) 40 mm x 29 cm (1.57 x 11.42 in.)

Display:	Alphanumeric display, 4 rows of 16 characters
Kit?:	Yes
Length:	290 mm
Material:	Sensor Body: stainless steel;
	Probe: stainless steel;
	Sensor Window: sapphire
Measuring Principle:	Combined multiple beam alternating light method with infrared diode system and beam focusing.;
	Turbidity: 2-channel 90° scattered light measurement in accordance with DIN/EN 27027/ISO 7027;
	additional measurement value verification though six-channel multiple-angle measurement;
	Solids: Modified absorption measurement;
	six-channel multiple-angle measurement;
Measuring range:	TSS 0.001 - 400g/L
	Turbidity 0.001 - 9999 FNU
Measuring Range TSS:	0.001 - 400 g/L (upper range depending on sample characteristics)
Measuring Range Turbidity:	0.001 - 9999 FNU
Memory:	Up to 290 measuring points
Operating Pressure:	0 to 10 bar (0 to 145 psi)
Operating temperature range:	0 - 60 °C
Power:	Automatic shut down after 4 minutes (if no button has been pressed and no permanent measurement is activated)
Precision Suspended Solids:	< 4 % ± 0.001 g/L , whichever is greater
Precision Turbidity:	< 3 % or ± 0.02 NTU , whichever is greater
Pressure Range:	Max. 10 bar
Protection Class:	Probe IP68; Control unit IP55
Reading Modes:	Grab sample with saving of permanent measurement, integration time settings 0 - 1000 seconds
Relative Humidity:	0 - 95 %
Resolution:	Suspended Solids: 0.01 at 1 - 9.999 g/L
Resolution turbidity:	0.001 @ 0 - 0.999 NTU
Sensor Cable:	10 m
Warranty:	12 months
Weight:	Probe: 3.5 lbs (1.6 kg); Meter: 1.2 lbs (0.54 kg)
What's included?:	Turbidity, Suspended Solids and Sludge Level probe, meter, rechargeable batteries, user manual, carrying case.
	Please note that the battery charger is not included and needs to be purchased separately.
Width 2:	450 mm

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