



## **Solitax inline sc Turbidity (0.001-4000 NTU) and Suspended Solids (0.001-50 g/L) built-in probe, with wiper, stainless steel**

**Product #:** LXV424.99.00100  
**ZAR Price:** Contact Hach  
**Ships within 1 week**

### **Accurate, colour-independent suspended solids and turbidity measurements**

Stainless steel high-precision built-in process probe to determine turbidity and suspended solids. Colour independent method with dual-beam infrared/scattered light photometer.

90° turbidity measurement according to DIN EN ISO 7027. The backscatter photoreceptor measures suspended solids accurately in accordance with DIN 37414. A single correction factor replaces time-consuming multipoint calibrations with dilution series. The measurement data is displayed and processed with the help of a controller. The sensor is for pipe use only! A welding neck and a fitting are essential for pipe installation.

Turbidity measurement performance certified according to MCERTs regulation.

Prognosys is a predictive diagnostic system that allows you to be proactive in your maintenance, by alerting you to upcoming instrument issues. Know with confidence whether changes in your measurements are due to changes in your instrument or your water.

This instrument connects to Claros, Hach's innovative Water Intelligence System, enabling you to seamlessly connect and manage instruments, data, and process – anywhere, anytime. The result is greater confidence in your data and improved efficiency in your operations. To unlock the full potential of Claros, insist on Claros Enabled instruments.

### **Greater accuracy, less maintenance**

Hach Solitax sc sensors provide accurate, colour-independent measurement of turbidity and suspended solids in drinking water, wastewater and industrial process applications. A self-cleaning device prevents biological growth and interference of gas bubbles. This system's reliable performance and full data communication capability help improve process control and reduce treatment costs associated with polymer use, digester volume, and sludge handling.

### **Excellent correlation to laboratory analysis**

Solitax sc sensors show an exceptional correlation to laboratory analysis. On-line measurement not only saves time on manual analysis, but also provides critical real-time measurements that can be used to operate the plant more efficiently.

### **Fully serviceable sensors**

Conventional turbidity and suspended solids sensors are potted and are discarded when they no longer function. Solitax sc sensors are fully serviceable, which often doubles the useful life of the sensor.

### **Easy one-point calibration**

Factory calibrated in conformity with DIN EN ISO 7027 for long-term calibration stability. Calibration is easy with a simple correction factor procedure.

### **Multi-channel, multi-parameter system**

Multiple Solitax sc sensors can be installed on one Hach SC Controller. The same controller can also accommodate any combination of parameters. All of Hach’s model sc sensors are “plug and play” with no complicated wiring or set-up procedure necessary.

## Specifications

Accuracy:	Turbidity up to 1000 NTU:  without calibration < 5% of the measured value ±0.01 NTU  with calibration < 1% of the measured value ±0.01 NTU
Automatic Wiper:	Yes
Body Material:	Stainless Steel
Cable Length:	10 m (optional extension cables available)
Calibration Method:	Turbidity: Formazin or Stablcal Standard (at 800 NTU).  Suspended Solids: Sample specific, based on gravimetric TSS analysis with a correction factor procedure.
Certifications:	CE
Controller:	Sensor only
Diameter Sensor:	60 mm
Flow:	Max. 3 m/s (the presence of air bubbles affects the measurement)
Length:	315 mm
Maintenance Interval:	1 h/month
Material:	Optics carrier and sleeve: PVC black  Wiper arm: stainless steel 1.4581  Wiper rubber: silicone rubber (standard)  Optional: FKM/FPM (LZX578)  Wiper shaft: stainless steel 1.4571
Max. cable length Sensor-to-Controller:	100 m
Measuring Principle:	Infrared Duo scattered light technique for colour-independent turbidity measurement  Turbidity in accordance with DIN EN ISO 7027 / TSS equivalent DIN 38414
Measuring range:	TSS content: 0.001 mg/L - 50 g/L  Turbidity: 0.001 - 4000 NTU
Model:	Solitax inline sc
Mounting:	Insertion
Operating temperature range:	0 - 40 °C
Parameter:	Suspended Solids, Turbidity
Pressure Range:	Stainless steel insertion sensor: <6 bar or <60 m
Repeatability:	TSS content: < 3 %  Turbidity: < 1 %
Response Time T90:	1 - 300 s adjustable
Special Notes:	Installation note: Distance sensor–wall > 50 cm (Turbidity)
Warranty:	12 months
Weight:	Insertion stainless steel: 2.4 kg (5.29 lb.)

What's included?

Turbidity/Suspended Solids probe, user manual

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Required Accessories

- SC1000 Display Module, Multi-Parameter Universal Controller (Item LXV402.99.00002)
- SC1000 Probe Module, 6 Sensor Connectors, Prognosys, Modbus 485, 100-240 VAC with Conduits (Item LXV400.99.1H082)
- SC1000 Probe Module, 8 Sensor Connectors, Prognosys, 100-240 VAC with Conduits (Item LXV400.99.1G092)
- SC1500 Controller, 6 Sensor Connectors, 8Ma Out, 110V/Cond Ext MOD (Item LXV446.99.103N1)
- SC1500 Controller, 6 Sensor Connectors, 8Ma Out, 110V/Cond 4 Relay/C Ext MOD (Item LXV446.99.1R3S1)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, US plug (Item LXV525.99E11551)
- 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)