



## Surface Scatter 7 sc High Range Turbidimeter

**Product #:** LPV431.99.00002

**ZAR Price:** Contact Hach

**Ships within 1 week**

### Outstanding results in high temperatures: Surface Scatter 7 sc

Able to measure very high and low turbidity levels accurately, this turbidimeter is uniquely designed so that the light source and the photocells never come in contact with the sample.

The sample is introduced into the center sample tube of an inclined turbidimeter body at a flow rate of 1 - 2 liters per minute. As the fluid spills over the top of the turbidimeter body, a stable, flat surface of liquid forms and becomes the measuring surface.

The light source emits a high-intensity beam of light, which strikes the surface of the fluid diagonally. The detector registers the light that is scattered at 90° to the incident beam. This scattered light is proportional to the content of suspended particles in the sample.

**Virtually maintenance-free, optics never touch the sample**

**Wide turbidity measurement range from 0 - 9,999 NTU**

**Durable-manufactured with corrosion/heat-resistant materials for extended life**

**Separate sample and control units**

**Easy and accurate calibration**

---

### Specifications

Accuracy:	±5% of reading or ±0.1 NTU (whichever is greater) from 0 - 2000 NTU
Accuracy 2:	±10% of reading from 2000 - 9999 NTU
Alarm:	Relays can be programmed through SC controller for warning, alarm, feeder, event, pulse width modulation, and frequency control.
Ambient Temperature:	0 - 50 °C
Channels:	Instrument Only
Controller:	No
Enclosure Construction:	Plastic instrument enclosure
Enclosure rating:	NEMA 12
Installation category:	Category II
Mounting:	Wall mount
Number of Channels:	None
Power requirements (Voltage):	100/230 VAC

Range:	0.1 - 9999 NTU
Relative Humidity:	5 - 95% non-condensing
Repeatability:	1.0% or $\pm 0.04$ NTU, whichever is greater
Resolution:	<1000 NTU: 0.01 NTU
	1000 - 9999.9 NTU: 0.1 NTU
Response time:	Initial response in 45 seconds
Sample Flow Rate:	Sample flow required 1.0 - 2.0 L/min
Sample Input:	0.75 " NPT female thread
Sample Output:	1 " NPT female thread
Sample Temperature:	0 - 50 °C
Storage conditions:	-20 - 80 °C
Warranty:	24 months
Weight:	15.9 kg

---

## Required Accessories

- 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)