



Sonatax sc Sludge Level and Sludge Height Probe with Wiper, Stainless Steel

Product #: LXV431.99.00002
ZAR Price: Contact Hach
Ships within 3-5 weeks

The superior way of measuring sludge levels: Sonatax sc process probe

The Sonatax sc is a digital process probe for the continuous determination of the sludge level or the sludge height in sedimentation tanks, vessels and reactors. The sludge level or sludge height is calculated without contact between the probe and the sludge based on the propagation time of the ultrasonic echo. An efficient automatic wiper cleaning system keeps the ultrasonic head clean. The Sonatax sc is factory calibrated for long-term calibration stability. A simple correction allows adjustment to local conditions. In addition, the probes are compatible for Hach SC200 and SC1000 controller platform.

Please contact Hach for further information.

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.

Reduced Maintenance with Innovative Wiper Design

The wiper functions with a magnetic connection and without a shaft so there are no o-rings to replace and no need to open the probe housing. Tools are not needed to replace the wiper blades.

Superior Accuracy with Automatic Frequency Adjustment

The Sonatax sc probe automatically scans a range of frequencies to find the ideal settings for the solids concentration for the application. Built-in software disregards signals reflected from tank structures such as pipes, rods, etc.

Unique Features

The fully digitized Sonatax sc probe means there are no electromagnetic interferences. Instantly resume measurements after skimmer passes with the built-in position sensor that also compensates for angle when the probe is not mounted exactly vertically.

Temperature Compensation for Seasonal Changes

Automatic temperature compensation assures ultrasonic measurement is unaffected by seasonal changes in water temperature - seasonal calibration becomes unnecessary.

Visual Performance Indicator Enhances Troubleshooting

A visual performance LED indicator light on the Sonatax sc probe provides quick glance assurance of proper performance. Green light indicates okay, red indicates warning. Troubleshooting, particularly in applications with multiple sludge blanket level probes connected to one controller, is quick and easy.

Specifications

Accuracy:	0.1 m (0.33 ft)
Cable Length:	10 m (optional extension cables available)

Calibration:	Factory calibrated
Calibration Method:	One-off on commissioning, automatic
Certifications:	CE certified to EN 61326-1:1998 /A1/A2/A3 & EN 61010-1:2001
Configurations:	Sensor only
Controller Compatibility:	SC4500, SC1000, SC200
Dimensions (D x L) :	185 mm x 130 mm
Enclosure rating:	IP68
Flow:	Max. 3 m/s (the presence of air bubbles affects the measurement)
Includes:	Sludge Level probe, user manual
Length:	130 mm
Maintenance Interval:	< 1 h/month typical
Material:	POM: Wiper Magnet Encapsulating Compound: Epoxy resin; Wiper Rubber: Silicone rubber
Measuring Principle:	Ultrasonic measurement
Measuring range:	0.2 - 12 m sludge level
Mounting Configurations:	Fixed pole mount, pivot mount or chain mount
Operating temperature range:	0 - 50 °C
Parameter:	Sludge level
	Sludge height
Power requirements (Voltage):	12 V, 2.4 W, provided by SC controller
Pressure Range:	≤ 0.3 bar or ≤ 3 m
Resolution:	0.03 m sludge level
Response Time (adjustable):	10 - 600 s
Temperature Compensation:	Automatic
Warranty:	12 months
Weight Sensor:	3.5 kg
What's included?:	Sludge Level probe, user manual

What's included?

Sludge Level probe, user manual

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, 8x mA Out, 110V/Cond Ext MOD (Item LXV446.99.103N1)
- SC1500 Controller, 6 Sensor Connectors, 8x mA Out, 110V/Cond 4 Relay/C Ext MOD (Item LXV446.99.1R3S1)