Sonatax sc with SC200 Controller, Profibus

Product #:   2976100

OBSOLETE ITEM
This item is no longer available.

Optimize sludge extraction, manage recirculation, and be warned of potential solids washouts or process upset by continuously measuring the sludge blanket level with Sonatax. Its digitized probe eliminates interferences and features a quick LED system check. Note: For graphical display of sludge profile, the Sonatax sc probe must be connected to a SC1000 controller.

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
Communication:	Profibus DP
Configurations:	Sensor, Pivot Mounting Hardware, and SC200 Controller with Profibus
Controller:	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, controller, pivot mount, 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:	Pivot
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:	$\leq$ 0.3 bar or $\leq$ 3 m
Resolution:	0.03 m sludge level
Response Time (adjustable):	10 - 600 s
Temperature Compensation:	Automatic
Warranty:	24 months
Weight Sensor:	3.5 kg
What's included?:	Sludge Level probe, controller, pivot mount, user manual

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Sludge Level probe, controller, pivot mount, 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, 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)