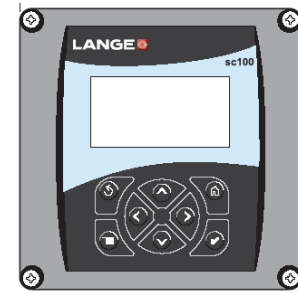
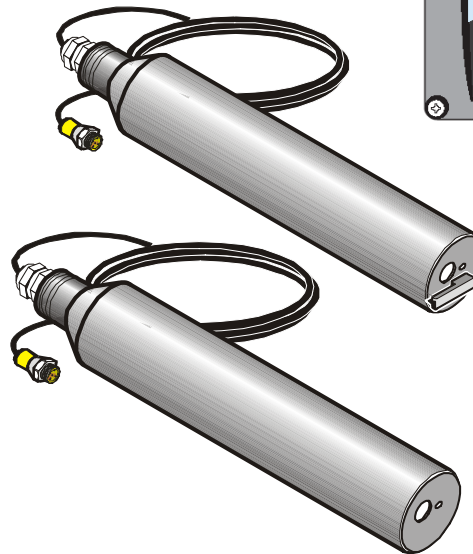
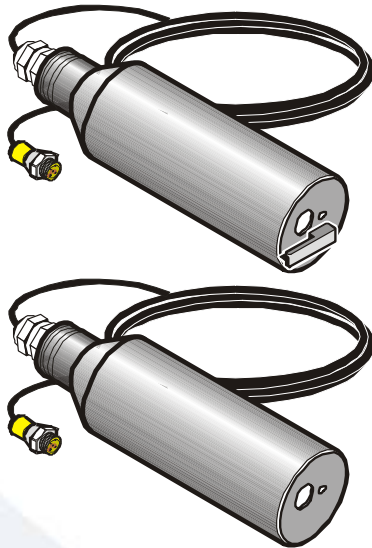
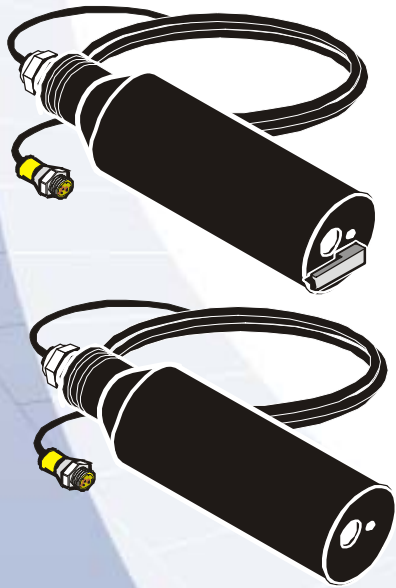


SOLITAX sc Family

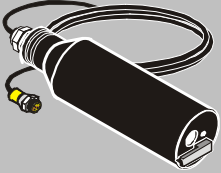
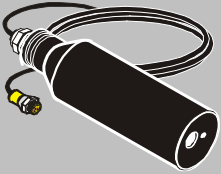


UNITED FOR WATER QUALITY

Turbidity in open tanks and channels



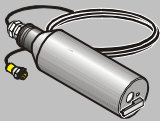
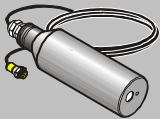
SOLITAX t-line sc: Measurement up to 4000 FNU

Process probe for continuous monitoring and control of turbidity in water (e.g. in the sewage plant outfall, surface water or drinking water). Rugged plastic body. Available without or optional automatic self-cleaning Wiper system. Analysis by means of the Digital Controller Platform (sc100 or sc1000).

Artikel-Number	Cleaning		Gehäuse-Material		Technical description	Typical Applications
	Yes	No	Plastic	SS		
LXV423.99.10000 	✓		✓		<u>Measuring technique:</u> infrared scattered light photometer <u>Measuring method:</u> turbidity measurem. in accordance with DIN ISO EN 27027 <u>Measuring range:</u> Turbidity: 0,001 - 4000 FNU <u>Measurement accuracy:</u> turbidity 1.0 %, at least ± 0.001 FNU <u>Process variation coeff.</u> 1 % in accordance with DIN 38402	Turbidity measurement <ul style="list-style-type: none"> • Inlet /Outlet primary settling tank <i>Detection of the settling performance</i> • Outlet wwtp <i>Monitoring Outlet</i> <i>Conclusions of P_{ges}, TKN and COD</i> • Filter <i>Filtermonitoring,</i> <i>Optimisation of filter back wash</i> <i>Optimisation of flocculant dosing</i> • Surface water monitoring • In drinking water
LXV423.99.12000 		✓	✓		<u>Response time:</u> 0.5 s < T90 < 5 min (adjustable) <u>Measurement intervall:</u> 0,3 s <u>Sample temperature</u> +2 °C to +40 °C <u>Dimensions:</u> (D x L) 60 x 200 mm <u>Weight:</u> ca. 1,8 kg	

Turbidity and SS in open tanks and channels



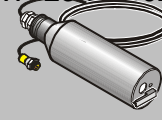

SOLITAX ts-line sc: Measurement up to 50 g/l

Process probes with a combined infrared absorption scattered light process for measuring lowest turbidity levels in accordance with DIN ISO EN 27027 as precisely, reliably and, of course, independently of coloration as high sludge levels. Probe Housing available in SS316 (V4A) or Plastic material for various application - available without or optional automatic self-cleaning Wiper system. Analysis by means of the Digital Controller Platform (sc100 or sc1000).						
Articel-Number	Cleaning		Probe material		Technical description	Typical Applications
	Yes	No	Pastic	SS		
LXV423.99.10100 	✓		✓		<u>Measuring technique:</u> infrared duo scattered light photometer for measurement independent of colour <u>Measuring method:</u> turbidity measurement in accordance with DIN EN 27027; TS measurement, equivalent to DIN 38414 <u>Measurement range:</u> Turbidity: 0,001 - 4000 FNU Suspended solids: 0,001 - 50,0 g/l TS <u>Measurment accuracy:</u> turbidity 1.0 %, at least ± 0.001 FNU Process variation coeff. 1 % in accordance with DIN 38402 <u>Response time:</u> 0.5 s < T90 < 5 min (adjustable) <u>Measurement interval:</u> 0,3 s <u>Sample temperature</u> +2 °C to +40 °C <u>Dimensions:</u> (D x L) 60 x 200 mm <u>Weight::</u> Approx.. 1,8 kg	Turbidity and SS Measurement Same applications as for SOLITAX t-line sc; Possible to change between turbidity and SS measurement SS measurement up to 50 g/l <ul style="list-style-type: none"> In the aeration tank <i>Monitoring of the SS concentration,</i> <i>Adjustment of the excess sludge draw off</i> <i>Adjustment of the sludge age,</i> <i>Detection of the sludge age.</i> Return sludge: <i>Optimisation of the return sludge volume flow,</i> <i>Optimisation of the excess sludge draw off</i> <ul style="list-style-type: none"> Sludge dewatering <i>Monitoring of the sludge load in the inlet of a dewatering machines,</i> <i>Optimisation of the flocculant dosing</i>
LXV423.99.12100 		✓	✓			
LXV423.99.00100 	✓			✓		
LXV423.99.02100 		✓		✓		

Turbidity and SS in open tanks and channels

SOLITAX hs-line sc: Measurement up to 150 g/l

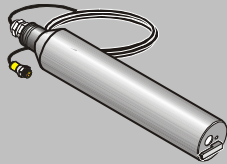
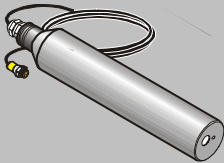
Process probes with a combined infrared absorption scattered light process for measuring lowest turbidity levels in accordance with DIN ISO EN 27027 as precisely, reliably and, of course, independently of coloration as high sludge levels. Probe Housing available in SS316 (V4A) or Plastic material for various application - available without or optional automatic self-cleaning Wiper system. Analysis by means of the Digital Controller Platform (sc100 or sc1000).

Articel-Number	Cleaning		Enclosure-Material		Technical description	Typical Applications
	Yes	No	Plastic	SS		
LXV423.99.10200 	✓		✓		<u>Measuring technique:</u> infrared duo scattered light photometer for measurement independent of colour <u>Measuring method:</u> turbidity measurement in accordance with DIN EN 27027; TS measurement, equivalent to DIN 38414 <u>Measurement range:</u> Turbidity: 0,001 - 4000 FNU Suspended solids: 0,001 -150,0 g/l TS <u>Measurement accuracy:</u> turbidity 1.0 %, at least ± 0.001 FNU Process variation coeff. 1 % in accordance with DIN 38402 <u>Response time:</u> 0.5 s < T90 < 5 min (adjustable) <u>Measurement interval:</u> 0,3 s <u>Sample temperature</u> +2 °C to +40 °C <u>Dimensions:</u> (D x L) 60 x 200 mm <u>Weight:</u> Approx.. 1,8 kg ca. 1,8 kg	Trübungsmessung / Feststoffmessung Same Applications like SOLITAX t-line sc and SOLITAX ts-line sc; Measurement of the SS concentration up to 150 g/l <ul style="list-style-type: none"> In the primary settling tank <i>Optimisation of the primary sludge draw off</i> Sludge dewatering <i>Inlet/Outlet of a dewatering machine, Optimisation of the excess sludge and primary sludge draw off</i>
LXV423.99.12200 		✓	✓			
LXV423.99.00200 	✓			✓		
LXV423.99.02200 		✓		✓		

Turbidity and SS measurement in pipes

SOLITAX inline sc: Measurement up to 50 g/l

Process probes with a combined infrared absorption scattered light process for measuring lowest turbidity levels in accordance with DIN ISO EN 27027 as precisely, reliably and, of course, independently of coloration as mid sludge levels. Probe Housing made of SS316 (V4A) - available without or optional automatic selfcleaning Wiper system. Analysis by means of the sc Digital Controler Platform.

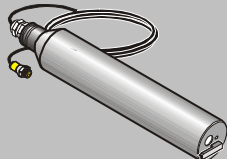
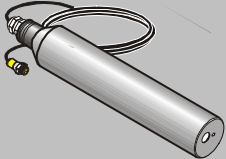
Articel-Number	Cleaning		Enclosure-Material		Technical Description	Typical Applications
	Yes	No	Plastic	SS		
LXV424.99.00100 	✓			✓	<u>Measuring technique:</u> infrared duo scattered light photometer for measurement independent of colour <u>Measuring method:</u> turbidity measurement in accordance with DIN EN 27027; TS measurement, equivalent to DIN 38414 <u>Measurement range:</u> Turbidity: 0,001 - 4000 FNU Suspended solids: 0,001 - 50,0 g/l TS	Turbidity and SS measurement Same Applications like SOLITAX t-line sc and SOLITAX ts-line sc in pipe lines; Measuring of the SS concentration up to 50 g/l <ul style="list-style-type: none"> In the primary settling tank <i>Optimisation of the primary sludge draw off</i> Sludge dewatering <i>Inlet/Outlet of a dewatering machine; Optimisation of the excess and primary sludge thickening</i>
LXV424.99.02100 		✓		✓	<u>Measurment accuracy:</u> turbidity 1.0 %, at least ± 0.001 FNU Process variation coeff. 1 % in accordance with DIN 38402 <u>Response time:</u> 0.5 s < T90 < 5 min (adjustable) <u>Measurement interval:</u> 0,3 s <u>Sample temperature</u> +2 °C to +40 °C <u>Pressure:</u> ≤ 5 bar <u>Dimensions:</u> (D x L) 60 x 315 mm <u>Weight::</u> Approx.. 2.4 kg	



Turbidity and SS measurement in pipes

SOLITAX highline sc: Measurement up to 150 g/l



Process probes with a combined infrared absorption scattered light process for measuring lowest turbidity levels in accordance with DIN ISO EN 27027 as precisely, reliably and, of course, independently of coloration as high sludge levels. Probe Housing made of SS316 (V4A) - available without or optional automatic selfcleaning Wiper system. Analysis by means of the sc Digital Controller Platform.

Articel-Number	Cleaning		Enclosure-Material		Technical Description	Typical Applications
	Yes	No	Plastic	SS		
LXV424.99.00200 	✓			✓	<u>Measuring technique:</u> infrared duo scattered light photometer for measurement independent of colour <u>Measuring method:</u> turbidity measurement in accordance with DIN EN 27027; TS measurement, equivalent to DIN 38414 <u>Measurement range:</u> Turbidity: 0,001 - 4000 FNU Suspended solids: 0,001 - 150,0 g/l TS <u>Measurment accuracy:</u> turbidity 1.0 %, at least ± 0.001 FNU Process variation coeff. 1 % in accordance with DIN 38402 <u>Response time:</u> 0.5 s < T90 < 5 min (adjustable) <u>Measurement interval:</u> 0,3 s <u>Sample temperature</u> +2 °C to +40 °C <u>Pressure:</u> ≤ 5 bar <u>Dimensions:</u> (D x L) 60 x 315 mm <u>Weight::</u> Approx.. 2.4 kg	Turbidity and SS measurement Same application like SOLITAX inline; Measurement of the SS concentration up to 150 g/l <ul style="list-style-type: none"> Primary settling tank <i>Optimisation of the primary sludge draw off</i> Sludge dewatering <i>Inlet / Outlet of a dewatering machine, Optimisation of the excess sludge and primary sludge thickening</i>
LXV424.99.02200 		✓		✓		



Accessories

Tank rim fixing for the probes and Controllers

Articel-Number	Technical Description
LZX414.00.1000 	Mounting Kit for probe (stainless steel) with 90°C adapter for mounting the probe to a tank or channel. Material: Edelstahl DIN 1.4571
LZX414.00.3000 	Mounting Kit for probe (stainless steel) with 360°C adapter for mounting the probe to a tank or channel. Material: Edelstahl DIN 1.4571
LZX997	Display Unit Mounting Kit, for sc100 Controler, incl. Plastic Sunshield
LZX957	Mounting hardware SC1000 incl. Sunshield

Accessories



Wiper blades

LZX050	Set of wiper blades (for 5 changes), made of silicone for normal applications
LZX578	Set of wiper blades (5 changes) made of Viton for e.g. media containing oil


Controller

Sc1000 und Sc100

Universal-Controller SC1000, SC for Standard Controller – this is what HACH LANGE calls its universal controller concept for all probes and analysers. The controllers and the high quality digital sensors from HACH LANGE form a perfectly synchronised system, which can also include conventional analogue sensors easily. For either a standalone single-parameter solution or complex network: The SC platform is the ideal interface between user and plant – with simple handling, proven versatility and sustainable efficiency.

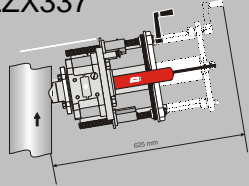
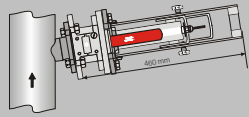
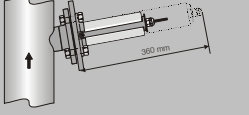
Artikel-Nummer	Technische Beschreibung
LXV402.99.0x001 	Mobil color graphical display module with touch screen user interface to operate the SC 1000 controller system. A probe module is required to connect and operate the display module. A complete controller system for SC-sensors consists of one single SC 1000 display module (model LXV402) and one or more SC 1000 probe modules (model LXV400). All SC 1000 probe modules are connected by the SC 1000-network. The system is modular and can be configured to customer specific requirements. Later on the system can be extended by adding further measuring points, SC-sensors, inputs, outputs or network interfaces.
LXV400.99.xxxx1 	The probe module is used to connect the SC-sensors at one measuring point. A SC 1000 controller network can be build up by connecting several probe modules. A complete controller system for SC-sensors consists of one single SC 1000 display module (model LXV402) and one or more SC 1000 probe modules (model LXV400). All SC 1000 probe modules are connected by the SC 1000-network. The system is modular and can be configured to customer specific requirements. Later on the system can be extended by adding further measuring points, SC-sensors, inputs, outputs or network interfaces.

SC100 Controller

LXV401.99.2x001 	Universal – Controller for the wall -, tubing or control panel housing. Connection type for 2 digital sensors over splash-proof patch cords.
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Accessories

Inline fittings

Articel-Number	pressure		Material		Ball valve		Technical Description
	= 1 bar	= 5 bar	C-steel	SS	Yes	No	
LZX337 		✓		✓	✓		Safety installation inline armature (stainless steel) for installation and removal of probe in full pipes (p max = 5 bar abs.) Flange DN 65 PN 16; DIN 2633. Material: SS DIN 1.4571 Length when installed: 310 mm Length when removed: 550 mm
LZX936 	✓			✓	✓		Inline Installation armature with ball valve for installation and removal of probe in full pipes (p max = 1 bar abs.) Flange DN 65 PN 16; DIN 2633. Material: SS DIN 1.4571 Length when installed: 310 mm Length when removed: 550 mm
LZX461 	✓			✓		✓	Inline Installation armature for installation and removal of probe in pipes drained (p max = 1 bar abs.) Flange DN 65 PN 16; DIN 2633. Material: SS DIN 1.4571 Length when installed: 210 mm Length when removed: 360 mm
LZX660		✓		✓			Welding Neck flange made of stainless steel for the safety installation fitting
LZX661		✓	✓				Welding Neck flange made of C steel for the installation fitting