

LSP Series Pressure Transducer Level Sensors

Product Description

The LSP-Series are pressure based submersible level sensors offered in 316L (LSP-100 & LSP-101), PVC (LSP-200 & LSP-201) and PVDF (LSP-300 & LSP-301) formats for a variety of liquid level applications. All LSP-Series sensors provide continuous level measurement up to 393in (32.8ft or 10m) with a 4–20mA analog and Bluetooth® digital output. They can easily be configured using the uPyxis® mobile & desktop app. Configure these devices in less than a minute with simple entry of tank liquid volume and specific gravity. This level sensor platform does not require liquid in the tank for configuration.

The LSP-100/200/300 devices offer a local display and can record up to 6 months of inventory data for wireless transfer via uPyxis® to email. The sensors can be powered by (4) AA Li/SOCl₂ batteries or a 24VDC external power supply. These level sensors are ideally suited for applications where signal/power wiring may be difficult or unavailable. A 1.3in OLED display and four push-buttons are also included on the sensor for local display of level data and unit setup.

The LSP-101/201/301 devices use a 24VDC power supply only eliminating the battery compartment and local display/data storage, providing a 4–20mA output signal to any receiving device. This platform offers a lower cost alternative with superior accuracy and the convenience of rapid Bluetooth® configuration.

All LSP-Series submersible liquid level sensors are well suited for water, waste water, oil and chemical tank applications. The LSP Series of level sensors may be installed in the top-of-tank format or with the LSP Series Wall Mounting Bracket for easier access and visibility.



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Typical Applications

The LSP Series of Level Sensors are ideal for use in water level, chemical level, process liquid level or other applications requiring accurate and continuous liquid level measurement or control. Select your device based on its compatibility with liquid being measured. All LSP Series sensors can be powered by a 24VDC power supply and output the result with the 4–20mA output.

NOTE: When LSP-100/200/300 are 24VDC powered, the AA batteries should be removed from the compartment.

Specifications

Item	LSP-100	LSP-200	LSP-300	LSP-101	LSP-201	LSP-301
Part Number	54005	54009	54010	54012	54013	54014
Power Supply	(4) AA Li/SOCl ₂ or 24VDC, 2W			24VDC, 2W		
Data Storage	6 Months (60min/log)			NONE		
Output	Bluetooth® 5.0, 32ft (10m) Line of Sight & 4–20mA					
Submersion Cable Length	32.8ft (10m)					
Range	0–393in H ₂ O (0–10m H ₂ O)					
Resolution	0.02inch (0.5mm)					
Accuracy	±0.2% of the Range					
Stability	±0.2% URL/year					
Measurement Interval	Configurable			Continuous		
Installation	1in NPT Display Threading / 1.5" NPT Transducer Diameter					
Weight	3.1lbs (1400g)					
Enclosure Material	Polycarbonate (PC)					
Transducer Material	LSP-100/1 - 316L LSP-200/1 - PVC LSP-300/1 - PVDF					
Cable Material	PTFE					
Temperature	14-140 °F (-10–60 °C) Working -4–158 °F (-20–70 °C) Storage					
Enclosure Rating	IP-66					
Transducer Rating	IP-68					
Regulation	CE / RoHS					

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Order Information

Part Number

LSP-100 (<i>316L Stainless Steel Transducer with Display</i>)	54005
LSP-200 (<i>PVC Transducer with Display</i>)	54009
LSP-300 (<i>PVDF Transducer with Display</i>)	54010
LSP-101 (<i>316L Stainless Steel Transducer NO Display</i>)	54012
LSP-201 (<i>PVC Transducer NO Display</i>)	54013
LSP-301 (<i>PVDF Transducer NO Display</i>)	54014

Accessories

LSP Series AA-Li/SOCL2 Batteries (4)	50731
LSP Series Wall Mount Bracket	50770
Waterproof 10ft Flying Lead Cable with Adapter	MA-L10
25ft Waterproof Extension Cable	MA-L25
50ft Waterproof Extension Cable	MA-L50
100ft Waterproof Extension Cable	MA-L100

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