

# LSP Series - Submersible Level Sensors

The Pyxis LSP Series are pressure based submersible level sensors offered in 316L (LSP-100), PVC (LSP-200) and PVDF (LSP-300) formats for a variety of liquid level applications. All provide continuous level measurement up to 393-inch (32.8-ft. or 10-meter) with a 4-20 mA analog and Bluetooth digital output. They can be configured via the Pyxis **uPyxis**® app via mobile phone or PC and record up to 6 months of inventory data for wireless transfer via the app to email. The sensors can be powered by **4 AA Li/SOCI2 batteries** or a 24 VDC external power supply. This battery-powered and Bluetooth-enabled level sensor is ideally suited for applications where signal/power wiring may be difficult or unavailable to install. A 1.3-inch OLED display and four push-buttons are also included on the sensor for display and setup. These submersible liquid level sensors are well suited for water, waste water, oil, and chemical tank applications. LSP Series may be installed in top of tank format or with the LSP Series Wall Mounting Bracket for easier visibility.



## Typical Applications

The Pyxis LSP Series 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.

## LSP-100 / LSP-200 / LSP-300 Wiring

The LSP Series sensors can also be powered by a 24V DC power supply and output the result with the 4-20mA output. When it is 24V powered, the batteries should be removed from the compartment.

Wire Color	Designation
Red	24 V +
Black	24 V Power ground
Brown	4-20 mA +
Green	4-20 mA -, internally connected to the power ground
Blue	RS-485A (+)
Yellow	RS-485B(-)
Clear	Shield, earth ground

## Specifications

Item	Parameter
Power Supply	4 AA Li/SOCI2 or 24 VDC, 2W
Output	Bluetooth 4.1, 32 ft. (10 Meters) Line of Sight / RS-485 MODBUS and 4-20 mA
Data Storage	6 months (60 minutes per log measurement)
Cable Length	32.8 ft. (10 m)
Range	0 – 393 inchH2O (0 – 10 mH2O)
Resolution	0.02 inch (0.5 cm)
Accuracy	±0.2% of the range
Stability	±0.2% URL / year
Measurement Interval	Continuously , 3 min, 10 min, 60 min, configurable
Installation	1-inch NPT
Weight	3.1 pound (1400 g)
Enclosure Material	Polycarbonate (PC)
Transducer Material	<b>LSP-100</b> = 316L Stainless Steel Transducer <b>LSP-200</b> = PVC Transducer <b>LSP-300</b> = PVDF Transducer
Cable Material	PTFE
Temperature	Working: 14 - 140°F (-10 - 60 °C) Storage: -4 - 158°F (-20 - 70 °C)
Enclosure Rating	IP66
Transducer Rating	IP68
Regulation	CE



### LSP-Series AA Li/SOCI2 Batteries Kit (4ea)

Scan QC Code to Pyxis website to order.

SKU: 50731



### LSP-Series Wall Mounting Bracket Kit

SKU: 50770

## Ordering Information

LSP-100 Level Sensor (Stainless Steel Transducer)	P/N: 54005
LSP-200 Level Sensor (PVC Transducer)	P/N: 54009
LSP-300 Level Sensor (PVDF Transducer)	P/N: 54010
LSP-Series Wall Mounting Bracket Kit	P/N: 50770
AA Li/SOCI2 Battery Kit (4 each)	P/N: 50731