Pyxis

LSP-100 Submersible Level Sensor

The Pyxis LSP-100 is a pressure based submersible level sensor. It provides continuous level measurement up to 393-inch (32.8-ft. or 10-meter) with a 4-20 mA analog and Bluetooth digital output. It can be configured via the Pyxis **uPyxis®** app on mobile phones or computers and records up to 6 months of inventory data for wireless transfer via the app to email. The sensor can be powered by _4 AA Li/SOCl2 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 in the sensor for display and setup. This submersible liquid level sensor is well suited for water, waste water, oil, and other non-corrosive liquid. LSP-100 may be installed in top of tank format or with the LSP-100 Wall Mounting Bracket for easier visibility.

Typical Applications

The Pyxis LSP-100 Level Sensor is ideal for use in water level, chemical level, process liquid level or other applications requiring accurate and continuous liquid level measurement or control.

LSP-100 Wiring

The LSP-100 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

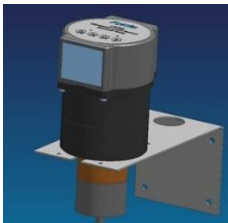| Item	Parameter
Power Supply	4 AA Li/SOCl2 or 24 VDC, 2W
Output	Bluetooth 4.1, 32 ft. (10 Meters) Line of Sight / RS-485 MODBUS and 4-20 mA
Data Storage	6 months (60 minutes per log measurement)
Cable Length	32.8 ft. (10 m)
Range	0 – 393 inchH2O (0 – 10 mH2O)
Resolution	0.02 inch (0.5 cm)
Accuracy	±0.2% 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	316L stainless steel
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-100 AA Li/SOCl2 Batteries Kit (4ea) can be purchased on the Pyxis website.

Scan QC Code to Pyxis website to order.
SKU: 50731

LSP-100 Wall Mounting Bracket Kit
SKU: 50770

Ordering Information

LSP-100 Level Sensor   P/N: 54005

LSP-100 Wall Mounting Bracket Kit   P/N: 50770

AA Li/SOCl2 Battery Kit (4 each)   P/N: 50731