

LS-202 Ultrasonic Level Transmitter with Display

Product Description

The LS-202 general purpose ultrasonic sensor is an innovative ultrasonic liquid level sensor that replaces float, conductance and pressure sensors that fail due to contact with dirty, sticky and scaling liquids in small and medium capacity tanks. These liquid level sensors can be used in either open or enclosed tanks. The sensor provides continuous level measurement up to 106 inches (8.8ft or 2.7m) with a 4–20mA signal output, RS-485 and Bluetooth® digital output, and can be configured via our uPyxis® mobile or desktop app. The sensor can be powered by (4) AA alkaline batteries or a 24VDC external power source (ie. controller).

The LS-200 level sensor is perfectly suited for remote installations where connective communication wiring and external power sources are unavailable. The 1.3inch push button OLED interface allows for simple device configuration and instant access to process data. The LS-202 also offers an internal data-logger capable of configuration via uPyxis® with storage capacity of up to 6 months of level data at a once per 30 minute log frequency. This data may be wirelessly downloaded as a .CSV file and shared via email from the uPyxis® app platform. The LS-202 is well suited for corrosive liquids and can be used for water treatment and other chemical feed applications. LS-202EX is the Class 1 / Div 2 Certified version of this level sensor platform.

Typical Applications

The LS-202 Ultrasonic Level Sensor is ideal for use as a water level sensor, water & process chemical tank level sensor, liquid level transmitter or other applications requiring accurate and continuous liquid level control or liquid level measurement.

Features

- Embedded Transmitters 4–20mA and RS-485 Outputs
- Bluetooth® Version 5.0 for Wireless Configuration
- 24VDC Powered with Smart Switch Capability
- PVDF Transducer / 6P Polycarbonate Enclosure
- 10ft 7-Pin Adapter / Flying Lead Cable
- Extension Cables Available
- Automatic Temperature / Electromagnetic Noise Compensation



Contact Us at info@pyxis-lab.com for More Information...

Specifications

Item	LS-202	LS-202 EX
Part Number	54002	54008
Range	4–106in (0.1–2.7m)	
Accuracy	±0.15% of Range	
Resolution	0.02in (0.5mm)	
Dead Zone	4in (100cm)	
Configuration	uPyxis® App	
Power Supply	(4) AA Batteries / 24VDC, 2.0W Max	
Signal Output	Bluetooth® 5.0, 4–20mA, RS-485 Modbus	
Measurement Interval	Continuous (5 Readings per second), Configurable	
Enclosure Rating	IP-67	
Installation	1in MNPT	
Storage Temperature	-4–158 °F (-20–70 °C)	
Operational Temperature	14–140 °F (-10–60 °C)	
Pressure	14–30psi (0.1–0.2MPa)	
Enclosure Material	Polycarbonate	
Transducer Material	PVDF	
Dimension	6.8in (172mm) Long, 3.1in (80mm) Diameter	
Weight	550g (1.3lbs)	
Regulation	CE / RoHS	CE / RoHS Class I & II / Div 2 Class III / Div 1 & 2

Order Information

LS-202 (Includes 10ft Flying Lead Cable with Adapter)
 LS-202EX (Includes 10ft Flying Lead Cable with Adapter)
 Water-Proof 10ft Flying Lead Cable with Adapter
 25ft Water-Proof Extension Cable
 50ft Water-Proof Extension Cable
 100ft Water-Proof Extension Cable

Part Number

54002
 54008
 MA-L10
 MA-L25
 MA-L50
 MA-L100