LS-801/L Series Radar Level Transmitters

Product Description

The Pyxis LSR-801 Series sensors are W-band FMCW continuous frequency modulation radar level transmitters. They provide continuous level measurement up to 591 inches (49.2 ft. or 15 m) with 4-20 mA output as well as RS485, BlueTooth 5.0®. The LSR-801L is also equipped with LoRa (Long Range Radio) digital output for long-distance wireless level sensor data access.

The LSR-801 Series can be wirelessly configured via the Pyxis uPyxis® app for Mobile or Desktop devices enabling rapid integration and deployment in the field. The sensors should be powered by a 24 VDC external power supply and are ideal for use with commonly used OEM controllers, PLC or DCS systems. This non-contact liquid level sensor platform is well suited for corrosive liquids and can be used for industrial, municipal and process liquid storage as well as chemical feed applications.

LSR-801

Typical Applications

The Pyxis LSR-801 Series Radar level sensors are 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.

LSR-801L

Features

i. Radar Liquid Level Measurement up to 15 Meters (+2mm)

ii. Embedded Transmitters 4-20mA and RS-485 Outputs

iii. Bluetooth® Version 5.0 for Rapid-Wireless uPyxis Configuration

iv. LoRa (Long Range Radio) Implemented LSR-801L

v. 24VDC Powered with Smart Switch Capability

vi. PVDF Transducer / 6P Polycarbonate Enclosure

vii. 10-ft Waterproof 7-Pin Quick Adapter/Flying Lead Cable

viii. Extension Cables Available

ix. Automatic Temperature / Electromagnetic Noise Compensation

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

Specifications

Item	LSR-801L	LSR-801
P/N	51959	54027
Power Supply	24VDC, 2.5W Max	24VDC, 2.0W Max
Radio Output	Long Range Radio (LoRa)	NONE
Bluetooth®	Bluetooth® 5.0 4.1, 32ft (10m) Line of Sight for use with uPyxis®	
Wired Output	(1) 4-20mA / RS-485 Modbus	
Output Cable	Waterproof 7-Pin (10ft / 3m) Cable with Adapter & Flying Lead	
Extension Cable	Waterproof Extension Cables Sold Separately	
Range	2-591in (0.05–15m)	
Resolution	0.02in (0.5mm)	
Accuracy	±2mm	
Dead Zone	2in (5cm)	
Measure Interval	Continuous (avg of 3 readings/second)	
Installation	2in NPT	
Weight	0.45lb (210g)	
Dimension	4.33in (110mm) Height, 2.95in (75mm) Diameter	
Enclosure Material	Polycarbonate (PC), Polybutylene Terephthalate (PBT)	
Ambient Temp.	5–122 ºF (-15–50 ºC)	
Storage Temp.	-4–140 ºF (-20–60 ºC)	
Pressure	-29–58 psi (-0.2–0.4MPa)	
Enclosure Rating	IP66	IP67
Regulation	CE/RoHS/UKCA	CE/RoHS/UKCA

* With Pyxis' continuous improvement policy, this specification is subject to change without notice.
(1) LSR-801L may be used with the Pyxis LoRa containing CloudLink 4G Gateway.
Contact order@pyxis-lab.com for Details

Order Information

Order Information	Part Number
LS-801 *(Includes 10ft Flying Lead Cable with Adapter)*	54027
LS-801L *(Includes 10ft Flying Lead Cable with Adapter)*	51959
MA-AC-7US *(110VAC-24VDC Power Supply Adapter)*	26398
MA-AC-7EU *(230VAC-24VDC Power Supply Adapter)*	28787
10ft Water-Proof Flying Lead Cable with Adapter	MA-L10
25ft Water-Proof Extension Cable	MA-L25
50ft Water-Proof Extension Cable	MA-L50
100ft Water-Proof Extension Cable	MA-L100
LSR-MB-W001 Wall Mounting Bracket	24658
LSR-MB-H001 Hanging Mounting Bracket	26307
LSR-MB-B001 Belt Mounting Bracket	23220