Pyxis®

PRL-100
Personal Radar Level Sensor with NFC & LoRa

Product Description

The Pyxis PRL-100 sensor is W-band FMCW continuous frequency modulation radar level transmitter designed for personal use in the field. The device provides continuous liquid level measurements up to 591 inches (49.2 ft. or 15 m) and is integrated with LoRa (Long Range Radio) output, Bluetooth® 5.0 and NFC (Near Field Communication) for container tag scan identification. The PRL-100 radar level sensor is ideal for your chemical inventory tracking applications by servicing facilities with multiple container locations. It allows easy identification of each labeled container with an NFC Tag scanning feature, take a liquid level measurement (through plastic) within 10 seconds and show important statistical data such chemical usage rate and remaining inventory.

The PRL-100 Series has a 2.8" LCD display and 3 buttons for rapid configuration and can be wirelessly configured via the Pyxis uPyxis® app for Mobile or Desktop devices enabling rapid integration and deployment in the field. The sensors are powered by a 3.7V rechargeable lithium battery. 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
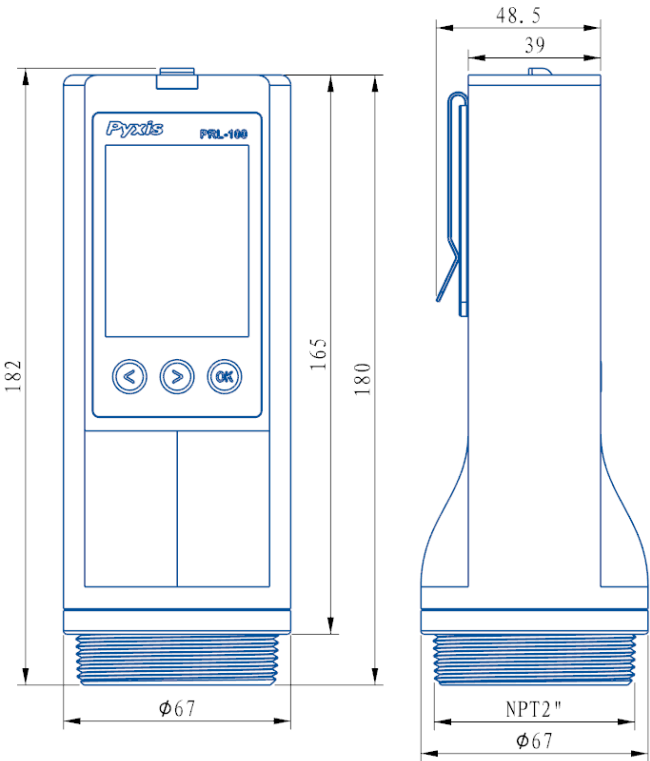
Features

- *Radar Liquid Level Measurement up to 15m (±2mm)*
- *NFC (Near Field Communication Scanner) for Tank Tag Use*
- *LoRa (Long Range Radio) Capable for Wireless Data Transfer*
- *Consumptive Use Automatic with Each Level Reading*
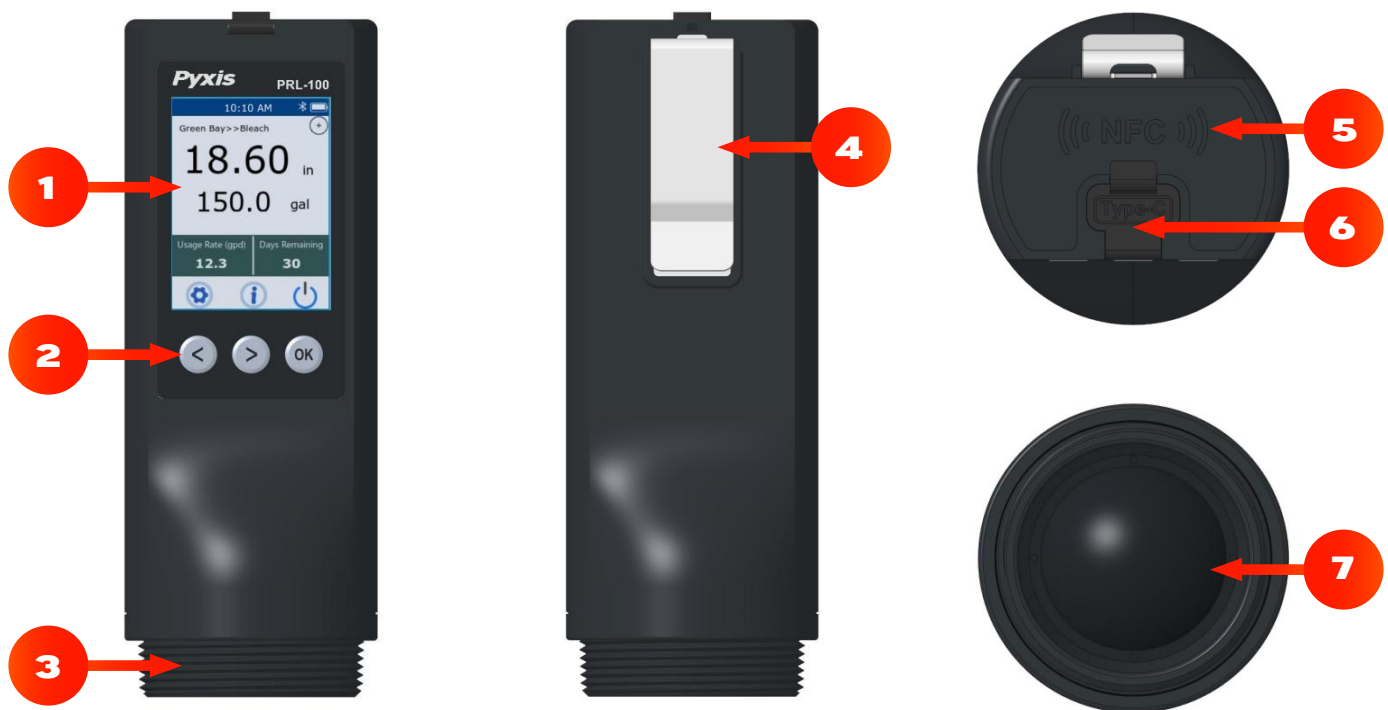- *Bluetooth® 5.0 for Rapid Wireless Configuration*

Specifications

Item	PRL-100
P/N	60388
Power Supply	3.7V 10200mAh Lithium-Ion Battery / Rechargeable
Bluetooth® Connection	Bluetooth® 5.0 4.1, 32 ft. (10 Meters) Line of Sight for use with uPyxis®
Radio Output	Long Range Radio (LoRa)
Interface	Type-C for Charging & Data Transfer
Range	3.94–591 inches (0.1–15 meters)
Resolution	0.02in (0.5mm)
Accuracy	±2mm
Dead Zone	3.94in (10cm)
Operating Frequencies	Bluetooth® - 2402MHZ-2480MHZ / Radar - 76GHz - 81GHz / LoRa - 803-930MHz
Tag Scan Feature	NFC (Near Field Communication) Scanner
Installation	2in NPT Thread
Weight	1.10lb (500g)
Dimensions	7.09in (180mm) H x 2.64in (67mm) D
Enclosure Material	PBT
Ambient Temperature	5–122 °F (-15–50 °C)
Storage Temperature	-4–140 °F (-20–60 °C)
Pressure	-29–58psi (-0.2–0.4MPa)
Enclosure Rating	IP66
Display	2.8" LCD Display
Regulaton	CE/RoHS/UKCA

Specifications are subject to change without notice.

Dimensions (mm)

Device Features

1. 2.8" LCD Display
2. (3) Buttons for On Screen Navigation
3. 2" NPT Thread for Installation
4. User-Friendly Belt Clip
5. NFC Antenna
6. Type-C Connection for Charging & Data Transfer
7. Radar Lens

Accessory/Replacement Order Information	Part Number
PRL-100 Radar Level Sensor - Complete Replacement	60388
PRL-100 Replacement Charging Plug	27367
PRL-100 Replacement Charging Cable	25102
NFC Container Tag Kit (25 each)	28121
PRL-100 Replacement Belt Clip	27510