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### briidea LD-127

# briidea RV Tank Sensor Monitor Panel

Model: LD-127

Brand: briidea

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your briidea RV Tank Sensor Monitor Panel (Model LD-127). This system is designed to monitor the fresh water level in your RV's tank, helping you manage water resources effectively.

## PRODUCT OVERVIEW

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The briidea micro monitor system is a non-WiFi water level monitoring solution for RVs, motorhomes, and caravans. It features a multi-color LED indicator for easy visual assessment of tank levels and includes a power failure memory function. The kit provides all necessary materials, eliminating the need for additional sensing electrodes.



# Wide Applications

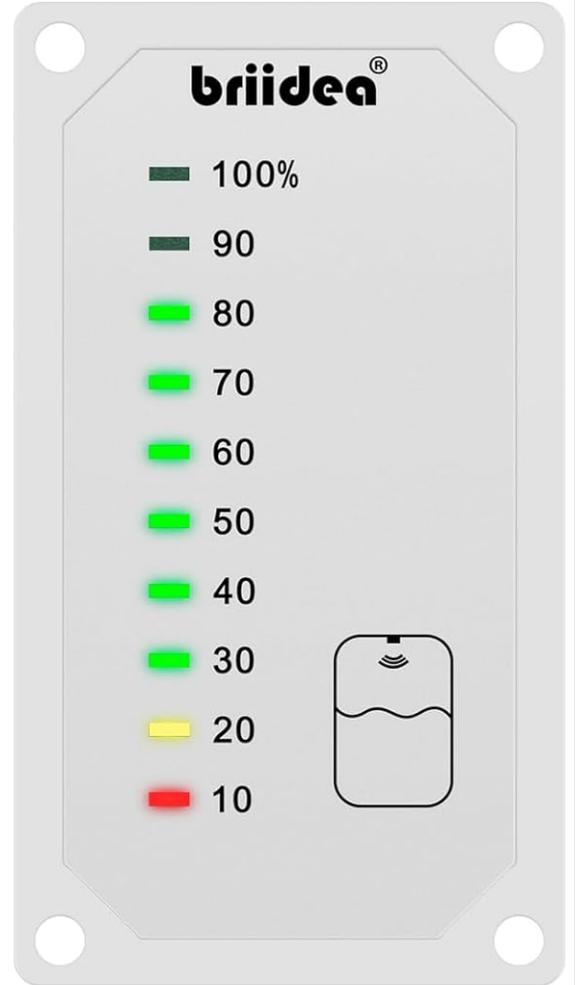


Image: The briidea RV Tank Sensor Monitor Panel is suitable for a wide range of applications, including RVs, motorhomes, and boats, providing water level monitoring.

## SAFETY INFORMATION

- Ensure the power supply is disconnected before installation or maintenance to prevent electrical shock.
- The device operates on a 7-32V DC power supply. Verify your vehicle's power system compatibility.
- Installation requires drilling into the water tank. Exercise caution and use appropriate safety gear.
- Some metal water tanks may affect detection accuracy. Consider tank material during installation planning.

## PACKAGE CONTENTS

The briidea RV Tank Sensor Monitor Panel package includes:

- 1x briidea RV Tank Sensor Monitor Panel (Model LD-127)
- Necessary installation materials (e.g., sensor, wiring)

## SPECIFICATIONS

<b>Brand</b>	briidea
<b>Model</b>	LD-127
<b>Material</b>	Metal
<b>Maximum Supply Voltage</b>	32 Volts (DC)
<b>Measurement Accuracy</b>	±1 inch
<b>Mounting Type</b>	Flange Mount
<b>Output Type</b>	Digital
<b>Sensing Distance</b>	13 Feet
<b>Item Weight</b>	5.6 ounces
<b>Package Dimensions</b>	4.41 x 3.66 x 1.34 inches

# Simple Wiring

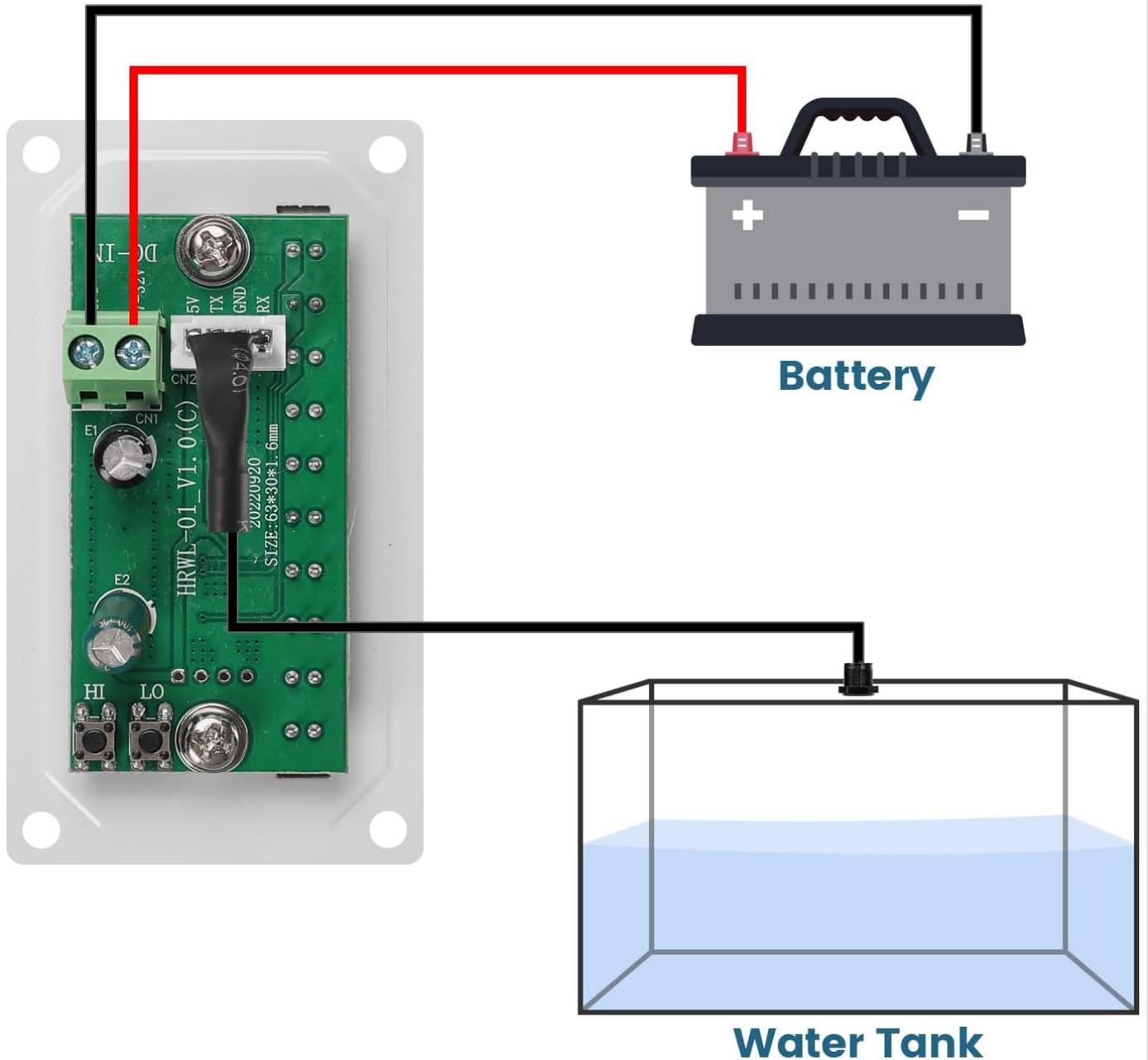


Image: Physical dimensions of the monitor panel (3.3 in x 1.9 in) and the sensor (0.9 in height, 1.1 in diameter) with a 9.8 ft cable.

## SETUP AND INSTALLATION

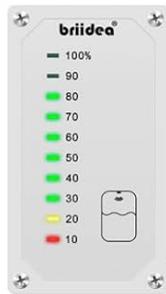
Careful installation is crucial for accurate readings. Follow these guidelines:

1. **Tank Requirements:** The water tank's length should be approximately twice its height for optimal sensor performance.
2. **Sensor Placement:** Install the sensor in the middle of the water tank. Ensure the sensor remains dry during calibration; its readings may be impacted if it touches the water surface. Avoid placing the sensor near water pipes that might obstruct its detection range.
3. **Drilling:** A step bit can be used to drill the necessary hole in the tank for the sensor. Ensure the hole is appropriately sized for a secure, watertight fit.

4. **Sensor Insertion:** The sensor must be installed from inside the tank. You may need to use a fish wire to guide the sensor cable through the new opening. Apply silicone sealant around the sensor's entry point to ensure a watertight seal.
5. **Wiring:** Connect the sensor to the monitor panel and the panel to a 7-32V DC power source. The sensor cable is approximately 9 feet long. Refer to the wiring diagram below.

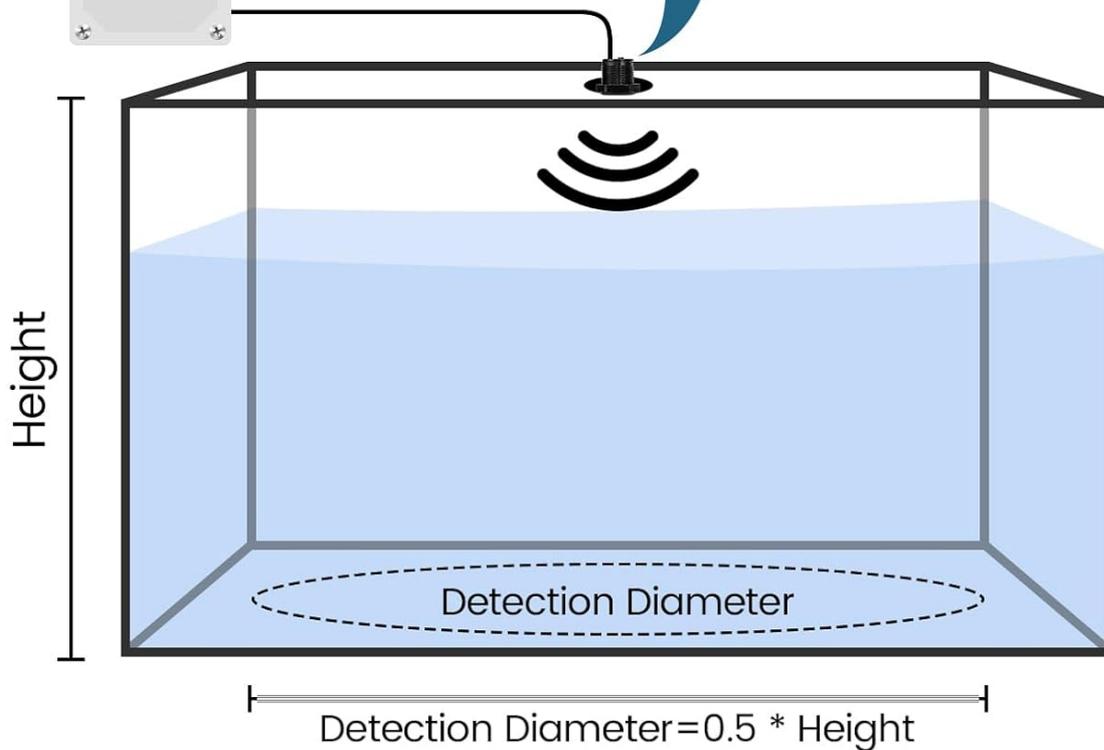
## Contactless detection method

Ensuring the cleanliness and hygiene of your fresh water



### Please note:

The sensor must be installed in the middle of the tank. The sensor's readings may be impacted when it touches the water surface. Ensure it stays dry during calibration. Ensure no water pipes obstruct the detection range at the same time



Please confirm before purchasing that the length of the water tank should be twice the height of the tank

Image: Diagram illustrating the contactless detection method. The sensor should be installed in the middle of the tank, ensuring it stays dry during calibration and that no water pipes obstruct the detection range. The detection diameter is approximately 0.5 times the tank height.

# LED Indicator Light

Colored lights provide you with an instant overview of the current water level in the tank



Image: Simple wiring diagram showing connections from the monitor panel to a 7-32V DC battery and the sensor to the water tank.

## OPERATING INSTRUCTIONS

The briidea RV Tank Sensor Monitor Panel is designed for straightforward operation:

- **Power On:** Once correctly wired to a 7-32V DC power source, the monitor panel will power on automatically.
- **LED Indicator:** The multi-color LED lights on the panel provide an instant visual overview of the current water level in your tank. Each LED corresponds to a specific percentage range (e.g., 10%, 20%, ..., 100%).
- **Power Failure Memory:** The device includes a power failure memory function, meaning you do not need to reset it after a power outage. It will retain its last known settings.
- **Calibration:** The panel may have buttons on the back to set low and empty levels. Refer to the specific instructions provided with your unit for calibration procedures, typically performed when the tank is empty and then full.

# SIZE

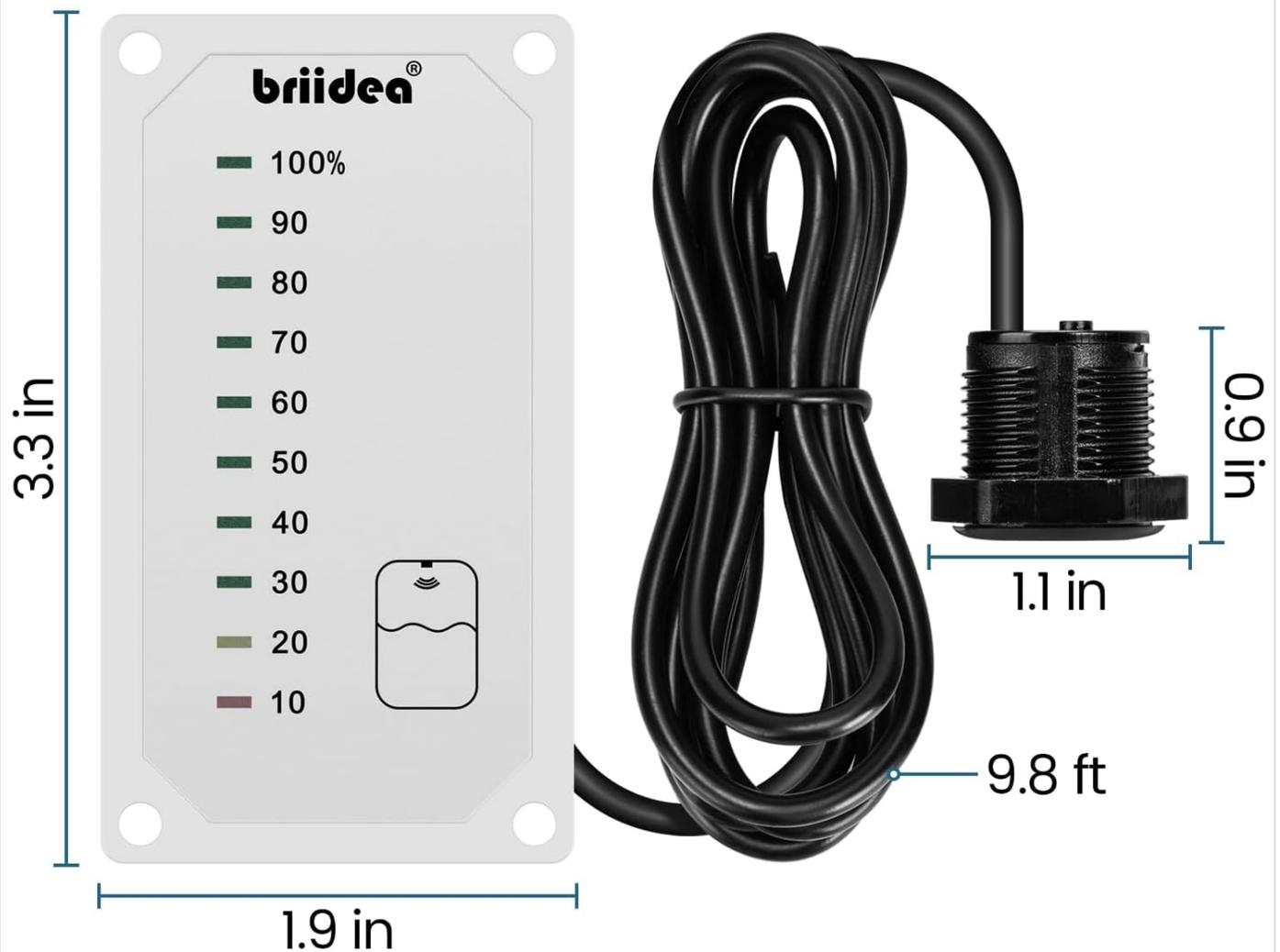


Image: The briidea monitor panel displaying multi-color LED indicators, providing a clear visual representation of the water tank's fill level.

## MAINTENANCE

The briidea RV Tank Sensor Monitor Panel requires minimal maintenance:

- **Cleaning:** Wipe the monitor panel with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Sensor Inspection:** Periodically check the sensor and its wiring for any signs of damage or loose connections. Ensure the sealant around the sensor's entry point remains intact to prevent leaks.
- **Recalibration:** If you notice inconsistent readings, consider recalibrating the sensor according to the instructions provided with your unit.

## TROUBLESHOOTING

If you encounter issues with your briidea RV Tank Sensor Monitor Panel, consider the following:

- **Inaccurate Readings:**

- Verify the sensor is installed in the middle of the tank and is not touching the water surface during calibration.
- Confirm the tank dimensions meet the requirement: length approximately twice the height.
- Check for any obstructions (e.g., water pipes) near the sensor that might interfere with detection.
- Note that some metal water tanks may affect detection accuracy.
- Attempt recalibration of the sensor.

- **No Power/Panel Not Lighting Up:**

- Ensure the power supply is connected correctly and providing 7-32V DC.
- Check all wiring connections for looseness or damage.
- Verify the vehicle's battery or power source is functional.

- **Intermittent Operation:**

- Inspect wiring for any loose connections or signs of corrosion.
- Ensure the sensor is securely mounted and its cable is not damaged.

If issues persist after attempting these steps, contact briidea customer support for further assistance.

## WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the official briidea website or contact their customer service department. Keep your purchase receipt for warranty claims.

**Online Support:** [Visit the briidea Store on Amazon](#)