Geloo 6"-150mm 240-33ohm

Geloo 6" (150mm) 240-33ohm Boat Fuel Sending Unit Instruction Manual

Model: 6"-150mm 240-33ohm

1. Introduction

This manual provides detailed instructions for the proper installation, operation, and maintenance of your Geloo 6" (150mm) 240-33ohm Boat Fuel Sending Unit. This unit is designed for accurate fuel or water level measurement in various marine and automotive applications. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.

Image: The Geloo Marine Fuel Sending Unit installed on a boat, highlighting its application.

2. Safety Information

- Always disconnect the battery before performing any electrical work.

- Ensure proper ventilation when working with fuel tanks.
- Use appropriate personal protective equipment (PPE) such as gloves and eye protection.
- Verify all connections are secure and insulated to prevent short circuits.
- Consult a qualified professional if you are unsure about any installation steps.

3. Product Overview

The Geloo Fuel Sending Unit is constructed from durable SUS316 stainless steel, designed for accurate and reliable level measurement. It features a standard SAE 5-hole mounting pattern for easy replacement of existing arm-type senders.

3.1 Key Components and Features

Stainless Steel Material: The main body of the sending unit is made from SUS316 stainless steel, providing excellent corrosion resistance and a long service life.

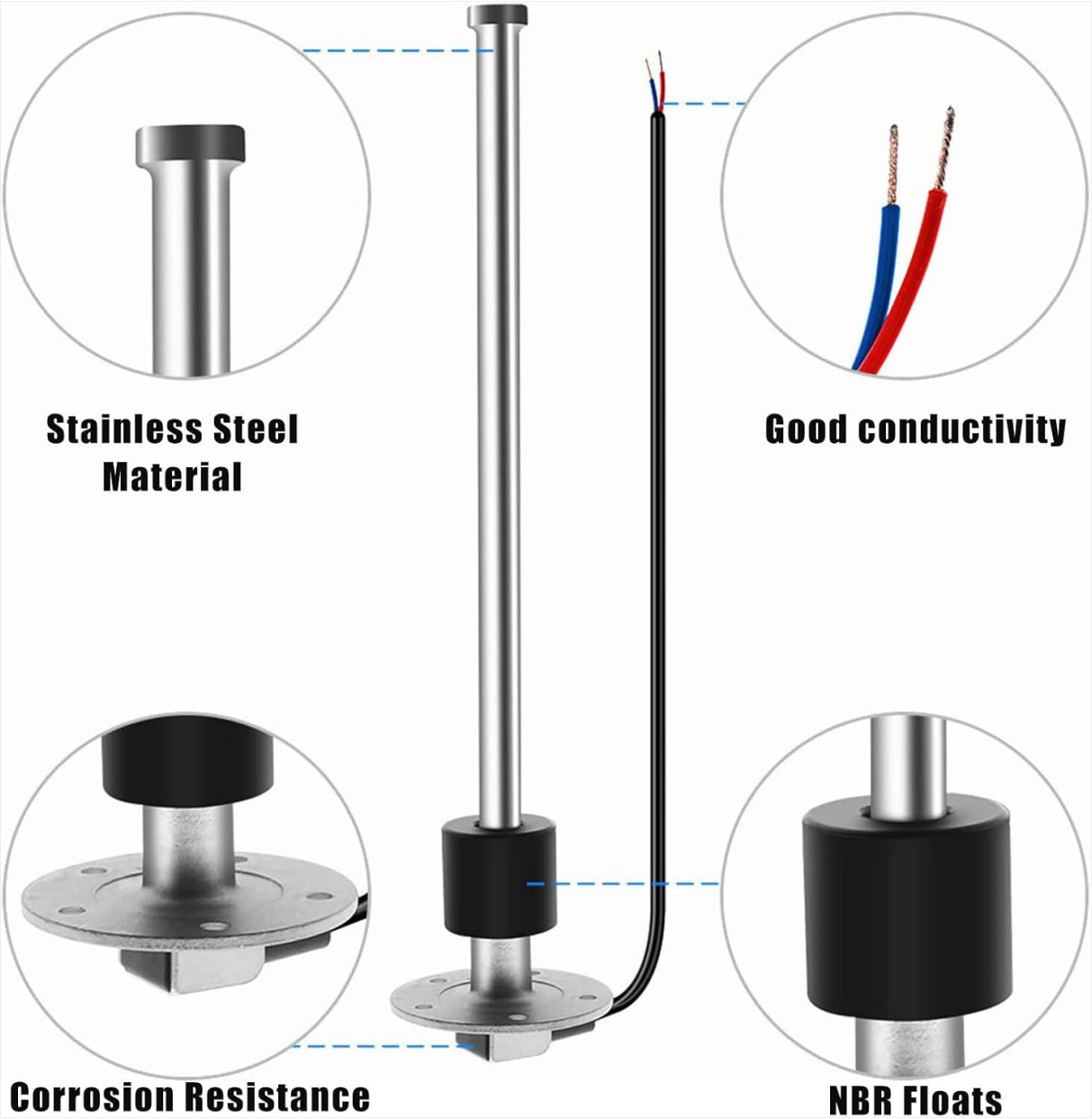


Image: Detailed view of the fuel sending unit highlighting its stainless steel construction, NBR floats, and wiring for good conductivity.

NBR Floats: Equipped with NBR (Nitrile Butadiene Rubber) floats for reliable and accurate level detection.

Good Conductivity Wiring: Features high-quality wiring for stable signal transmission.

Standard SAE 5-Hole Mounting: Ensures compatibility with a wide range of fuel and water tanks.

Image: Close-up of the top flange, showing the standard SAE 5-hole mounting pattern.

IP67 Waterproof Rating: Designed to withstand harsh marine environments, providing protection against dust and water immersion.

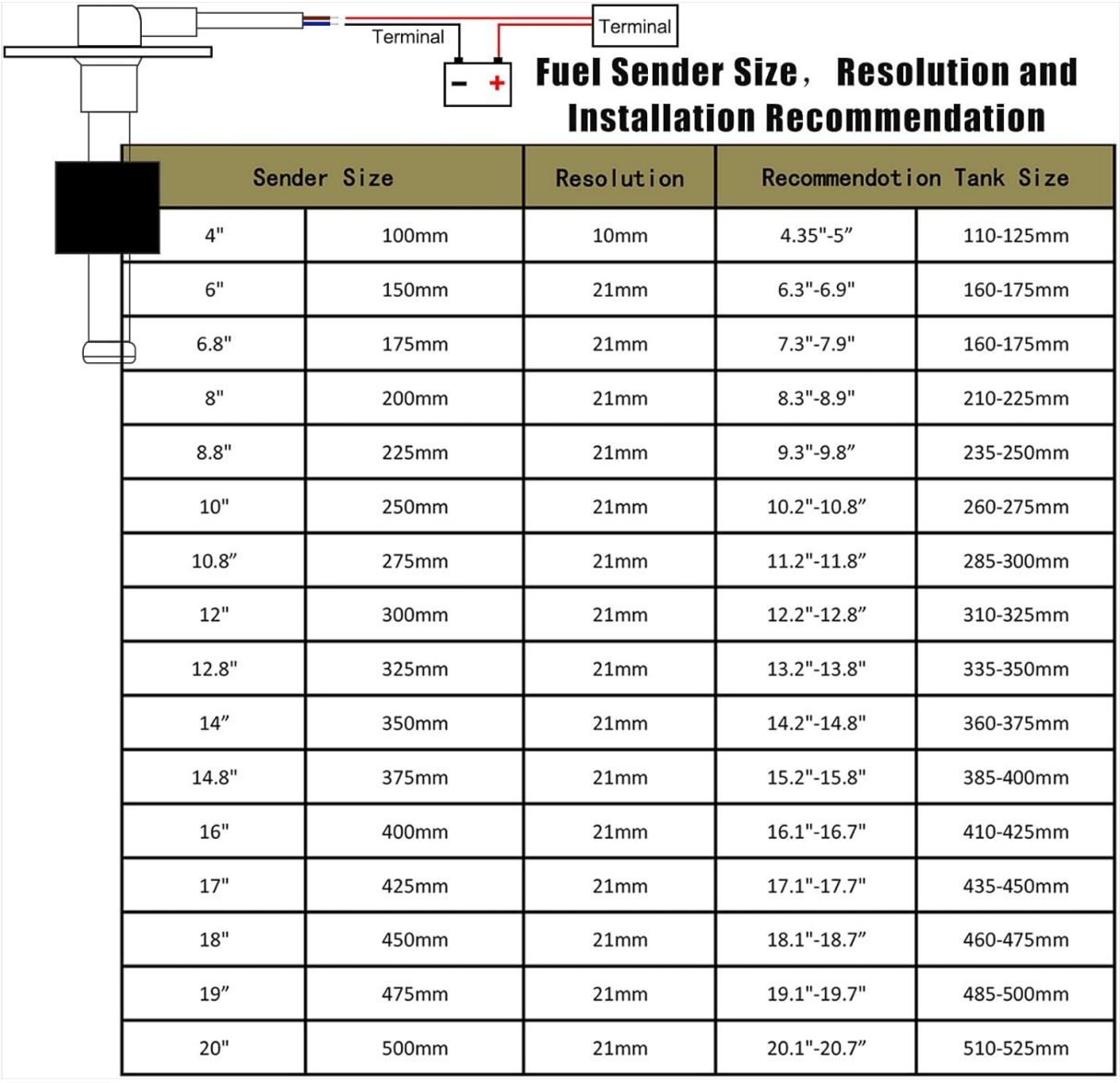
Image: The fuel sending unit undergoing a waterproof test, illustrating its IP67 rating.

4. Installation

Follow these steps for proper installation of the fuel sending unit. Ensure the tank is empty or the fuel level is below the installation point to prevent spills.

4.1 Pre-Installation Check

1. Confirm the sending unit length (150mm / 6") matches your tank depth.
2. Verify your fuel gauge operates with a 240-33ohm input signal.



Sender Size		Resolution	Recommendotion Tank Size	
4"	100mm	10mm	4.35"-5"	110-125mm
6"	150mm	21mm	6.3"-6.9"	160-175mm
6.8"	175mm	21mm	7.3"-7.9"	160-175mm
8"	200mm	21mm	8.3"-8.9"	210-225mm
8.8"	225mm	21mm	9.3"-9.8"	235-250mm
10"	250mm	21mm	10.2"-10.8"	260-275mm
10.8"	275mm	21mm	11.2"-11.8"	285-300mm
12"	300mm	21mm	12.2"-12.8"	310-325mm
12.8"	325mm	21mm	13.2"-13.8"	335-350mm
14"	350mm	21mm	14.2"-14.8"	360-375mm
14.8"	375mm	21mm	15.2"-15.8"	385-400mm
16"	400mm	21mm	16.1"-16.7"	410-425mm
17"	425mm	21mm	17.1"-17.7"	435-450mm
18"	450mm	21mm	18.1"-18.7"	460-475mm
19"	475mm	21mm	19.1"-19.7"	485-500mm
20"	500mm	21mm	20.1"-20.7"	510-525mm

Image: A table providing guidance on selecting the correct sender size based on tank depth.

4.2 Mounting the Sending Unit

1. Locate the existing fuel sender or the designated mounting area on your fuel tank.
2. Clean the mounting surface thoroughly.
3. Place the provided gasket onto the mounting flange of the sending unit.
4. Insert the sending unit into the tank opening, ensuring the float mechanism moves freely without obstruction.
5. Align the SAE 5-hole pattern and secure the unit using the provided mounting screws. Tighten screws evenly to create a watertight seal.

Image: An example of the fuel sending unit correctly installed on a tank.

4.3 Wiring Instructions

The sending unit has two wires: a red wire for positive connection and a blue wire for negative connection. Connect these to your fuel gauge and power source as follows:

1. Connect the **red wire** from the sending unit to the **positive (+) terminal** of your power supply (e.g., battery positive).
2. Connect the **blue wire** from the sending unit to the **negative (-) terminal** of your power supply (e.g., battery negative).
3. Connect the sender signal wire (typically black or yellow on the gauge) to the signal output of the sending unit.
4. Ensure all connections are secure and properly insulated.

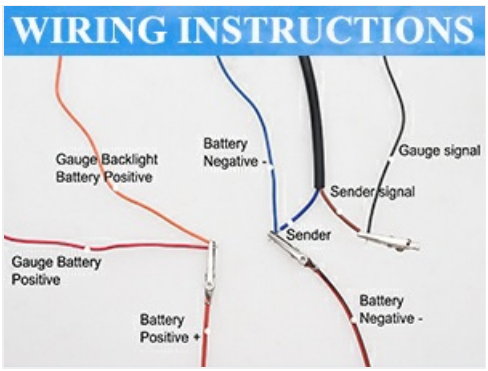


Image: A wiring diagram illustrating connections between the fuel sender, fuel gauge, and power source.

5. Operation

Once installed and wired, the fuel sending unit will transmit the fuel level to your compatible 240-33ohm fuel gauge. The gauge will display the current fuel level (Empty to Full).

5.1 Fuel Gauge Compatibility and Setting

This sending unit outputs a signal of 240 ohms when empty and 33 ohms when full. For accurate readings, your fuel gauge must be set to match this 240-33ohm standard. Refer to your fuel gauge's manual for specific instructions on how to adjust its settings.

Image: A visual guide emphasizing the 240-33ohm signal output and the importance of setting the fuel gauge accordingly.

5.2 Calibration Demonstration

The following video demonstrates how to ensure your fuel gauge is correctly calibrated with the sending unit. It shows how to adjust the gauge setting to match the 240-33ohm output for accurate readings.

[redacted]

Video: A demonstration of how to calibrate a fuel gauge to correctly read the output from the Geloo 240-33ohm Fuel Sending Unit.

6. Maintenance

The Geloo Fuel Sending Unit is designed for minimal maintenance due to its durable stainless steel construction. However, periodic checks can help ensure continued accuracy and longevity.

- **Annual Inspection:** Annually inspect the sending unit for any signs of corrosion, damage, or loose connections.
- **Cleaning:** If accessible, gently clean any debris or buildup around the float mechanism. Avoid using harsh chemicals that could damage the NBR floats.
- **Wiring Check:** Ensure all wiring connections remain tight and free from fraying or damage.

7. Troubleshooting

If you experience issues with your fuel sending unit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate Fuel Reading	◦ Incorrect fuel gauge setting (not 240-33ohm). ◦ Loose or corroded wiring connections. ◦ Float mechanism obstructed or damaged. ◦ Incorrect sender length for tank depth.	◦ Adjust fuel gauge to 240-33ohm setting (refer to gauge manual and calibration video). ◦ Check and secure all electrical connections. ◦ Inspect the float for free movement and damage. ◦ Verify sender length matches tank depth.
No Fuel Reading	◦ No power to the gauge or sender. ◦ Broken wire or faulty connection. ◦ Faulty sending unit or gauge.	◦ Check power supply to both gauge and sender. ◦ Inspect all wiring for breaks or shorts. ◦ Test components individually if possible.
Fuel Gauge Jumps/Fluctuates	◦ Loose ground connection. ◦ Electrical interference.	◦ Ensure a solid ground connection for both sender and gauge. ◦ Check for proper shielding of signal wires if interference is suspected.

8. Specifications

Feature	Detail
Model	6"-150mm 240-33ohm
Material	SUS316 Stainless Steel
Output Signal	240-33 ohms (240 ohms at empty, 33 ohms at full)
Mounting Standard	Standard SAE 5-hole
Operational Temperature	-40°C to +85°C
Protection Rating	IP67 Waterproof
Item Weight	0.24 Kilograms

9. Warranty & Support

Geloo products are manufactured to high-quality standards. For warranty information or technical support, please refer to the product packaging or contact your retailer. Keep your purchase receipt for warranty claims.
For further assistance, you may visit the official Geloo store on Amazon:Geloo Store