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Zerone SH-748

Zerone SH-748 Quartz Hour Meter Instruction Manual

Model: SH-748 | Brand: Zerone

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Zerone SH-748 Quartz Hour Meter. This device is designed for accurate time tracking on various equipment, including engineering vehicles, cars, trucks, marine vessels, and ATVs. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. SAFETY INFORMATION

- Always disconnect power before installing or servicing the hour meter to prevent electrical shock.
- Ensure the power supply voltage matches the meter's specified voltage range (12V-36V AC/DC). Incorrect voltage can damage the device.
- Do not attempt to open or modify the hour meter. There are no user-serviceable parts inside.
- Keep the device away from excessive moisture or extreme temperatures outside its operating range.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.

3. PRODUCT OVERVIEW

The Zerone SH-748 is a compact, round quartz hour meter featuring a 6-digit mechanical display. It is designed for durability and accurate timekeeping in demanding environments.



Figure 3.1: Front view of the Zerone SH-748 Quartz Hour Meter, showing the 6-digit scrolling digital display.

12-36V DC AC Boat Hour Meter

6 digital display hour meter, easy-to-read



Figure 3.2: Detailed view highlighting the wiring hole and the screw-fixed installation mechanism on the hour meter.

Voltage: 12V-36V, AC/DC
Power: 0.3W



Figure 3.3: The hour meter shown with its front and back, alongside the included connection terminals for wiring.

Components:

- **Display:** 6-digit mechanical counter for hours (00000.0 to 99999.9).
- **Housing:** Durable, fully sealed casing for protection against environmental factors.
- **Mounting Bracket:** Metal bracket with screws for secure panel installation.
- **Connection Terminals:** Included for electrical wiring.

4. SETUP AND INSTALLATION

Follow these steps to properly install your Zerone SH-748 Quartz Hour Meter.

4.1. Choosing an Installation Location

Select a flat, stable surface on your equipment's dashboard or panel. Ensure the location is easily visible for reading and protected from direct impact or extreme vibrations. The meter is suitable for various applications, including:

Motorboat



Motorcycle



Snowmobile



Lawn mower



Figure 4.1: Examples of equipment where the hour meter can be used, such as motorboats, motorcycles, snowmobiles, and lawn mowers.



Figure 4.2: The hour meter seamlessly integrated into a motorcycle's instrument panel.

4.2. Mounting the Meter

1. Drill a circular hole of appropriate diameter (refer to specifications for exact size) in the chosen panel location.
2. Insert the hour meter into the hole from the front.
3. Secure the meter from the rear using the provided metal mounting bracket and screws. Tighten the screws firmly but do not overtighten.



Figure 4.3: Rear view of the hour meter, illustrating the mounting bracket and electrical connection terminals.



Figure 4.4: A different angle of the hour meter's rear, showing the secure attachment of the mounting hardware.

4.3. Wiring Instructions

The hour meter operates on 12V-36V AC/DC. Connect the meter to a power source that is active when the equipment is in operation.

1. Identify the positive (+) and negative (-) terminals on your equipment's power source.
2. Connect the provided connection terminals to the appropriate wires from your power source.
3. Insert the wired terminals into the corresponding slots on the back of the hour meter. Ensure a firm connection.
4. Verify the voltage input is within the 12V-36V AC/DC range.



Figure 4.5: Detailed view of the wiring connections and the product label indicating AC/DC 12-36V input.

4.4. Installation Video Guide

For a visual guide on the installation process, please refer to the video below. This video demonstrates the connection of the hour meter and its components.

Your browser does not support the video tag.

Video 4.1: This video demonstrates the physical components and basic assembly of the AC/DC 12-36V Quartz Hour Meter Gauge Tester, including the meter itself and its connection terminals.

5. OPERATING INSTRUCTIONS

The Zerone SH-748 Quartz Hour Meter is designed for straightforward operation.

1. Once properly installed and connected to a power source, the meter will automatically begin accumulating hours when power is supplied to it.
2. The 6-digit display shows the total accumulated operating hours, with the last digit representing tenths of an hour.

3. The meter does not have a reset function, ensuring continuous and tamper-proof tracking of equipment usage.
4. The red indicator on the display rotates to confirm the meter is actively counting.

6. MAINTENANCE

The Zerone SH-748 Hour Meter requires minimal maintenance due to its robust and sealed design.

- **Cleaning:** Wipe the display and housing with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the surface.
- **Connection Check:** Periodically inspect the wiring connections to ensure they remain secure and free from corrosion.
- **Environmental Protection:** While the meter is fully sealed and dust-proof, prolonged exposure to extreme conditions beyond its specified operating range should be avoided to maximize lifespan.

7. TROUBLESHOOTING

If you encounter issues with your hour meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Meter not displaying hours / No power	<ul style="list-style-type: none"> ◦ No power supply to the meter. ◦ Incorrect wiring. ◦ Blown fuse in the power circuit. ◦ Voltage outside the 12V-36V range. 	<ul style="list-style-type: none"> ◦ Check power source connection. ◦ Verify wiring according to Section 4.3. ◦ Inspect and replace any blown fuses. ◦ Confirm power supply voltage.
Inaccurate hour counting	<ul style="list-style-type: none"> ◦ Intermittent power supply. ◦ Faulty connection. 	<ul style="list-style-type: none"> ◦ Ensure a stable power connection. ◦ Check all wiring for loose connections.
Red indicator not rotating	<ul style="list-style-type: none"> ◦ Meter not receiving power. ◦ Internal malfunction. 	<ul style="list-style-type: none"> ◦ Check power supply and connections. ◦ If power is confirmed, contact customer support.

If the problem persists after attempting these solutions, please contact Zerone customer support.

8. SPECIFICATIONS

Model	SH-748
Count Range	99999.9 hours
Count Accuracy	±0.01
Resetting Device	No
Voltage	12V-36V AC/DC
Power Consumption	0.3W
Operation Temperature	-10°C to 50°C
Relative Humidity	Fully sealed
Seismic Amplitude	10-70HZ 1-8g (Heavy strength)

Item Weight	123g
Material	Stainless Steel
Manufacturer	Zerone

9. WARRANTY AND SUPPORT

Warranty information for the Zerone SH-748 Quartz Hour Meter is not provided within this instruction manual. For details regarding warranty coverage, returns, or technical support, please refer to the product packaging or contact your retailer or the manufacturer directly.

Manufacturer: Zerone