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> SUMOR Digital Tachometer Engine Tach Hour Meter Gauge User Manual

## SUMOR SUMOR941

# SUMOR Digital Tachometer Engine Tach Hour Meter Gauge User Manual

Model: SUMOR941

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, and maintenance of your SUMOR Digital Tachometer Engine Tach Hour Meter Gauge. Please read this manual thoroughly before using the device to ensure proper function and longevity.

This device is designed to measure engine RPM and total operating hours for various gasoline-powered engines, including motorcycles, ATVs, snowmobiles, boats, and cars.

## 2. FEATURES

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- Large LCD display for clear readings.
- Measures engine RPM up to 99999 RPM.
- Tracks total operating hours up to 10000 hours.
- Resettable hour function.
- Programmable maintenance hour setting with service icon reminder.
- Inductive pickup for spark ignition engines (2-stroke or 4-stroke).
- Splash-proof design.
- Easy installation.
- High precision and stability.



Figure 2.1: Front view of the SUMOR Digital Tachometer showing the LCD display and S1/S2 buttons.

### 3. SETUP AND INSTALLATION

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#### 3.1 Package Contents

- 1 x SUMOR Digital Tachometer Meter

#### 3.2 Physical Installation

1. **Mounting:** Securely mount the tachometer in a suitable location on your vehicle or equipment. The device has mounting holes for screws. Ensure it is protected from direct impact.
2. **Wire Connection:** Wrap the black wire (approximately 170cm long) around the spark plug wire of your engine. The inductive pickup senses the ignition pulses. Ensure a sufficient number of wraps (e.g., 5-7 wraps) for reliable signal detection.
3. **Engine Type Selection:** After installation, use the S1 and S2 buttons to select the correct engine type (2-stroke or

4-stroke) for accurate readings. Refer to the "Operating Instructions" section for button functions.



Figure 3.1: Top-down view of the tachometer showing the attached inductive wire.



Figure 3.2: Diagram illustrating the dimensions of the tachometer and an example of its application on a motorcycle.

## 4. OPERATING INSTRUCTIONS

### 4.1 Display Modes

The device primarily displays total operating hours and engine RPM. The display automatically switches between these modes or can be manually cycled.

### 4.2 Button Functions (S1 & S2)

- **S1 Button:** Used for cycling through display modes, accessing settings, and confirming selections.
- **S2 Button:** Used for adjusting values within settings.

### 4.3 Resetting Total Hours

1. Hold down the **S1** button until "05" is displayed on the screen.

2. Release the **S1** button. After 8-10 seconds, the display will return to the total time.
3. To clear all data and reset the system, press **S1** and **S2** simultaneously. The data will cycle from 01-09, and then all data will be cleared. The speed mode will default to "02".

## 4.4 Setting Maintenance Reminder

The device features a programmable maintenance hour setting. When the set hours are reached, a service icon will appear as a reminder for oil changes or other scheduled maintenance.

Specific steps for setting the maintenance reminder are typically found by navigating through the S1 button menu. Consult the device's on-screen prompts for detailed instructions.

## 5. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Water Resistance:** The device is splash-proof. Avoid submerging it in water.
- **Battery:** The internal battery is not replaceable. The device is designed for long-term use without battery replacement.
- **Wire Inspection:** Periodically inspect the inductive wire for any signs of damage or wear. Ensure it remains securely wrapped around the spark plug wire.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Device off	Internal battery depleted or faulty.	The battery is not replaceable. If the device is new and not functioning, contact customer support.
Inaccurate RPM readings	Insufficient wraps of inductive wire; Incorrect engine type setting; Loose wire connection.	Ensure the inductive wire is securely wrapped 5-7 times around the spark plug wire. Verify the correct engine type (2-stroke/4-stroke) is selected using S1/S2 buttons. Check for any damage to the wire.
Hour meter not advancing	Engine not running or not detected; Device malfunction.	Ensure the engine is running and the RPM is being detected. Check wire connection. If problem persists, contact support.
Cannot reset data	Incorrect button sequence.	Follow the reset instructions precisely: Hold S1 until "05", release, then for full reset, press S1 and S2 simultaneously.

## 7. SPECIFICATIONS

- **Model:** SUMOR941
- **Display:** LCD
- **RPM Range:** Up to 99999 RPM
- **Hour Range:** Up to 10000 Hours
- **Operating Temperature:** Not specified (typical range for electronics)
- **Dimensions:** Approximately 72mm x 46mm x 20mm (L x W x H)
- **Wire Length:** Approximately 170cm
- **Weight:** Approximately 60g

- **Water Resistance:** Splash Proof
- **Power Source:** Internal non-replaceable battery

## 8. WARRANTY AND SUPPORT

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SUMOR products are manufactured to high quality standards. For any issues or inquiries regarding your device, please contact the seller or manufacturer directly. Please refer to your purchase documentation for specific warranty terms and conditions.

The manufacturer emphasizes customer experience. If you encounter any issues, please reach out for assistance.