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**echosari PET-304 / G310000050**

# Oppama Pulse Engine Tachometer/Hour Meter PET-304 - Echo G310000050 Instruction Manual

Brand: echosari | Manufacturer: Oppama | Model: PET-304 / G310000050

## INTRODUCTION

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This manual provides detailed instructions for the proper installation, operation, and maintenance of your echosari Oppama Pulse Engine Tachometer/Hour Meter PET-304. This compact digital device is designed to accurately measure engine revolutions per minute (RPM) and total running hours for single-cylinder, 2-stroke, or 4-stroke gasoline engines. Please read this manual thoroughly before use to ensure optimal performance and longevity of your device.

## PRODUCT OVERVIEW

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The PET-304 combines tachometer and hour meter functions in a single, easy-to-use unit. It can be used in a non-contact (wireless) mode or wired directly to the spark plug lead for precise readings. Key features include:

- Digital engine tachometer/hour meter PET-304
- Suitable for single cylinder, 2 or 4-cycle gasoline engines
- Records RPM and total run time



Figure 1: Oppama Pulse Engine Tachometer/Hour Meter PET-304 with its wired clip-on lead.

## SETUP AND INSTALLATION

The PET-304 is designed for straightforward installation. It can be mounted using its adhesive backing or secured with zip ties (not included) if drilling holes is not desired. The device includes a wired lead for connection to the engine's spark plug system.

### Battery Activation and Replacement

The unit comes with a CR2450 lithium battery pre-installed. To activate the device, remove the plastic tab from the battery compartment. The battery is replaceable by twisting open the battery cover on the back of the unit. The product description states a 20,000 running hour battery life, but also mentions it is non-replaceable. However, the design allows for battery replacement.

### Connecting to the Engine

The wired lead should be wrapped around the spark plug wire of your engine. The number of wraps may vary depending on your engine type to ensure optimal signal detection. Refer to the included quick installation manual for specific guidance based on your engine's firing pattern.

Video 1: Demonstration of installing a similar hour meter by wrapping the wire around a spark plug lead. Note: The product shown in this video may differ from the PET-304 model.

### Mounting the Unit

Secure the tachometer/hour meter to a clean, flat surface on your equipment using the provided adhesive pad. Alternatively, use zip ties through the designated holes if a more robust attachment is required.

## OPERATING INSTRUCTIONS

The PET-304 automatically activates and begins recording once it detects electrical pulses from the spark plug.

The display will show either RPM or accumulated hours, depending on the selected mode.

## Reading RPM and Hours

The device measures RPM from 100 to 20,000 with an accuracy of +/- 10 RPM and a refresh rate of 0.5 seconds. Running hours are recorded up to 10,000 hours. Use the 'M' (Mode) and 'S' (Set) buttons to cycle through display modes and adjust settings as per the detailed operating instructions provided in the product packaging.

Video 2: General demonstration of a small engine tachometer in use. Note: The product shown in this video may differ from the PET-304 model.

Video 3: Another general demonstration of a small engine tachometer. Note: The product shown in this video may differ from the PET-304 model.

Video 4: Digital engine tachometer in operation. Note: The product shown in this video may differ from the PET-304 model.

## MAINTENANCE

The PET-304 is designed for minimal maintenance. Keep the unit clean and free from dirt, dust, and moisture. The battery is designed for long-term use, but can be replaced when necessary as described in the Setup section.

## TROUBLESHOOTING

If the hour meter is not receiving a signal, try adjusting the position of the wired lead. Sometimes, placing the wire between the ignition coil and the spark plug hole wall can improve signal detection. Ensure all connections are secure and the battery is properly installed and charged.

## SPECIFICATIONS

|                        |                                                |
|------------------------|------------------------------------------------|
| Brand                  | echosari                                       |
| Manufacturer           | Oppama                                         |
| Model                  | PET-304 / G310000050                           |
| Material               | Plastic                                        |
| Dimensions (L x W x H) | 1.75 x 2.75 x 0.5 inches                       |
| Item Weight            | 0.01 Ounces                                    |
| UPC                    | 639440939900                                   |
| RPM Range              | 100-20,000 RPM                                 |
| RPM Accuracy           | +/- 10 RPM                                     |
| Refresh Rate           | 0.5 seconds                                    |
| Hour Meter Capacity    | Up to 10,000 hours                             |
| Battery Type           | CR2450 Lithium (replaceable)                   |
| Engine Compatibility   | Single cylinder, 2 or 4-cycle gasoline engines |

## WARRANTY AND SUPPORT

Information regarding product warranty and customer support is not available in the provided data. Please refer to the product packaging or contact the manufacturer directly for details.