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Jayron RL-HM016R

Jayron Digital LCD Inductive Tachometer Hour Meter (Model RL-HM016R) Instruction Manual

Model: RL-HM016R | Brand: Jayron

1. Introduction

Thank you for choosing the Jayron Digital LCD Inductive Tachometer Hour Meter, Model RL-HM016R. This device is designed to accurately measure and display the total running hours and current RPM of most gasoline engines by sensing induction from the spark plug cable. Its waterproof and shockproof design ensures reliable performance in various environments, including marine, ATV, generator, lawn tractor, and motorcycle applications. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of your device.



Figure 1: Jayron Digital LCD Inductive Tachometer Hour Meter (Orange)

2. Product Features

- **Hour Meter Function:** Displays total running hours from 0 to 99999 H with 0.1/1H accuracy. Includes a resettable partial timer for tracking specific operation periods.
- **Tachometer Function:** Measures and displays the current engine RPM. Maximum RPM display is 30000.
- **Easy Installation:** No wiring or external power required. Records engine hours and RPM via induction from the spark plug cable.
- **Adjustable RPM Types:** Supports 3 optional RPM types (1P2R, 1P1R, 2P1R) to accommodate various gasoline engine configurations.
- **Durable Design:** Features a 100% epoxy sealed shell, providing waterproof (IP68) and shockproof protection.
- **Certifications:** CE and RoHS certified.



3 optional RPM type: 1P2R; 1P1R; 2P1R.

Figure 2: Resettable Partial Timer Display



Figure 3: RPM Type Selection (1P1R shown)

3. Package Contents

Verify that all items are present in the package:

- Jayron Digital LCD Inductive Tachometer Hour Meter Unit
- Pick-up Wire (Induction Wire)
- Cable Ties (x2)
- Instruction Manual (this document)



Figure 4: Product Size and Accessories

4. Specifications

Feature	Specification
Model Number	RL-HM016R
Hour Meter Range	0 - 99999 H
Hour Meter Accuracy	0.1/1 H
Tachometer Max RPM	30000 RPM
RPM Types	1P2R, 1P1R, 2P1R
Waterproof Rating	IP68
Power Source	Internal Lithium Metal Battery (included)

Material	Plastic
Item Weight	59 Grams
Certifications	CE, RoHS

5. Setup and Installation

The Jayron Tachometer Hour Meter is designed for simple, non-invasive installation. No external power connection is needed.

1. **Mounting the Unit:**

   Choose a suitable, flat surface on your equipment where the meter will be visible and secure. The unit can be mounted using double-sided adhesive (if provided, check packaging) or by securing it with screws through the designated screw holes (see Figure 5) and cable ties.



Figure 5: Installation Diagram with Screw Hole and Wire Slot Details

2. **Connecting the Induction Wire:**

   Locate the spark plug cable of your engine. Take the provided pick-up wire (induction wire) and wrap it around

the spark plug cable approximately 5-7 times. Ensure the wraps are snug and secure. The end of the induction wire should be routed to the meter unit and inserted into the designated wire slot.

Note: The induction wire can be extended or shortened. However, it is recommended that the total length of the induction line does not exceed 5 meters after extension, as excessive length may affect measurement accuracy.

3. **Securing the Wire:**

   Use the provided cable ties to secure the wrapped induction wire to the spark plug cable and to fasten the wire neatly along its path to the meter, preventing it from interfering with moving parts or being damaged.

6. Operating Instructions

The meter automatically activates when the engine starts, displaying RPM and accumulating hours.

1. **Power On/Off:**

   The unit is always on and in standby mode. It will automatically display RPM when the engine is running and revert to displaying total hours when the engine is off.

2. **Viewing Total Hours:**

   When the engine is off, the display shows the total accumulated operating hours (0 to 99999 H).

3. **Viewing Current RPM:**

   When the engine is running, the display automatically switches to show the current engine RPM (up to 30000 RPM).

4. **Setting RPM Type:**

   To ensure accurate RPM readings, select the correct RPM type for your engine. This setting is typically accessed by pressing and holding the 'S' button (or similar button on the unit) while the unit is in a specific mode (refer to the physical unit's button layout if not explicitly detailed here). The available RPM types are:

   - **1P1R:** Suitable for 4-stroke, 1-cylinder engines with 1 coil/magneto.
   - **1P2R:** Suitable for 4-stroke engines with stator, points, 12V coil; or 4-stroke, multiple cylinders with 1 coil per cylinder; or old motors with points and condenser.
   - **2P1R:** Suitable for 4-stroke, 2-cylinder engines with 1 coil; or 2-stroke, 2-cylinder engines with 1 coil.

   Important: Incorrect RPM type settings will result in inaccurate RPM readings. Adjust as necessary to match your engine's ignition system.

5. **Resetting Partial Timer:**

   The unit includes a resettable partial timer. To reset this timer, locate the 'S' button (or similar) and follow the instructions on the unit or packaging for resetting. This allows tracking of specific job durations.

7. Maintenance

The Jayron Tachometer Hour Meter is designed for minimal maintenance.

- **Cleaning:** Wipe the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Waterproof Rating:** The unit has an IP68 waterproof rating, meaning it is protected against prolonged immersion in water. However, avoid unnecessary exposure to extreme conditions.
- **Battery:** The internal lithium metal battery is sealed and not user-replaceable. The unit is designed for long-term operation without battery replacement.
- **Induction Wire:** Periodically inspect the induction wire for any signs of wear, fraying, or damage. Ensure it remains securely wrapped around the spark plug cable.



Figure 6: Epoxy Resin Seal for Durability

8. Troubleshooting

If you encounter issues with your Jayron Tachometer Hour Meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate RPM readings	◦ Incorrect RPM type setting. ◦ Insufficient or loose wraps of induction wire around the spark plug cable. ◦ Induction wire too long or damaged.	◦ Verify and adjust the RPM type setting (1P1R, 1P2R, 2P1R) to match your engine's ignition system. ◦ Increase the number of turns (5-7 recommended) or ensure the induction wire is tightly wrapped around the spark plug cable. ◦ Ensure the induction wire is not excessively long (max 5m) and is free from damage.

Meter not displaying anything	◦ Engine not running (RPM display only active when engine is on). ◦ No induction signal from spark plug cable. ◦ Internal battery depleted (unlikely for new units).	◦ Start the engine to check RPM. If off, it should display total hours. ◦ Check induction wire connection and ensure it's properly wrapped around the spark plug cable. ◦ If the unit is completely unresponsive after prolonged use, contact customer support.
Induction wire needs to be extended	Standard wire length is insufficient for installation.	The induction wire can be extended. However, the total length should not exceed 5 meters to maintain measurement accuracy. Use appropriate gauge wire for extension.

9. Warranty and Support

The Jayron Digital LCD Inductive Tachometer Hour Meter (Model RL-HM016R) comes with a**two-year after-sales guarantee** from the date of purchase. This warranty covers manufacturing defects and ensures the product functions as described under normal use.

For technical support, warranty claims, or any questions regarding the product, please contact Jayron customer service through the retailer where the product was purchased or visit the official Jayron store online.

Online Store: Visit the Jayron Store on Amazon

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