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Runleader RL-HM016B

Runleader Digital Wireless Hour Meter Instruction Manual

Model: RL-HM016B | Brand: Runleader

Introduction

The Runleader Digital Wireless Hour Meter is designed to track the operating hours of various gas/diesel powered machines through vibration detection. It features total accumulated hours (TOT), resettable partial timing (PAR), adjustable vibration sensitivity, and a waterproof design. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your hour meter.

Key Features

- **Hour Tracking:** Accurately records total engine/machine usage (TOT) up to 99,999 hours with 0.1 hour accuracy.
- **Partial Timer (PAR):** Allows for tracking and resetting maintenance intervals, such as oil changes.
- **Adjustable Sensitivity:** Features two vibration sensitivity settings (Low and High) for precise timing on different machines.
- **Waterproof & Shock Resistant:** 100% epoxy resin sealing ensures protection against moisture and impacts (IP67 rated).
- **Lock Shutdown:** Ability to lock and shut down the LCD display to conserve battery life when not in use.
- **Easy Installation:** Simple stick-on mounting for convenient placement on any suitable surface.
- **Data Storage:** User data is retained even after the display is shut down.
- **Long Battery Life:** Powered by an included CR2050 Lithium Metal battery.

Product Overview and Components

Figure 1: The Runleader Digital Wireless Hour Meter, displaying accumulated hours. The meter is yellow with a black display area and a grey 'S' button.

Figure 2: The hour meter's display, indicating the Total (TOT) and Partial Time functions. The TOT icon resembles an hourglass, and the Partial Time icon shows '88888'.

Figure 3: Illustration of the two vibration sensitivity settings: 'LO' for low sensitivity (strong vibration) and 'HI' for high sensitivity (weak vibration).

Figure 4: The hour meter submerged in water, highlighting its IP67 waterproof rating and 100% epoxy seal craft.

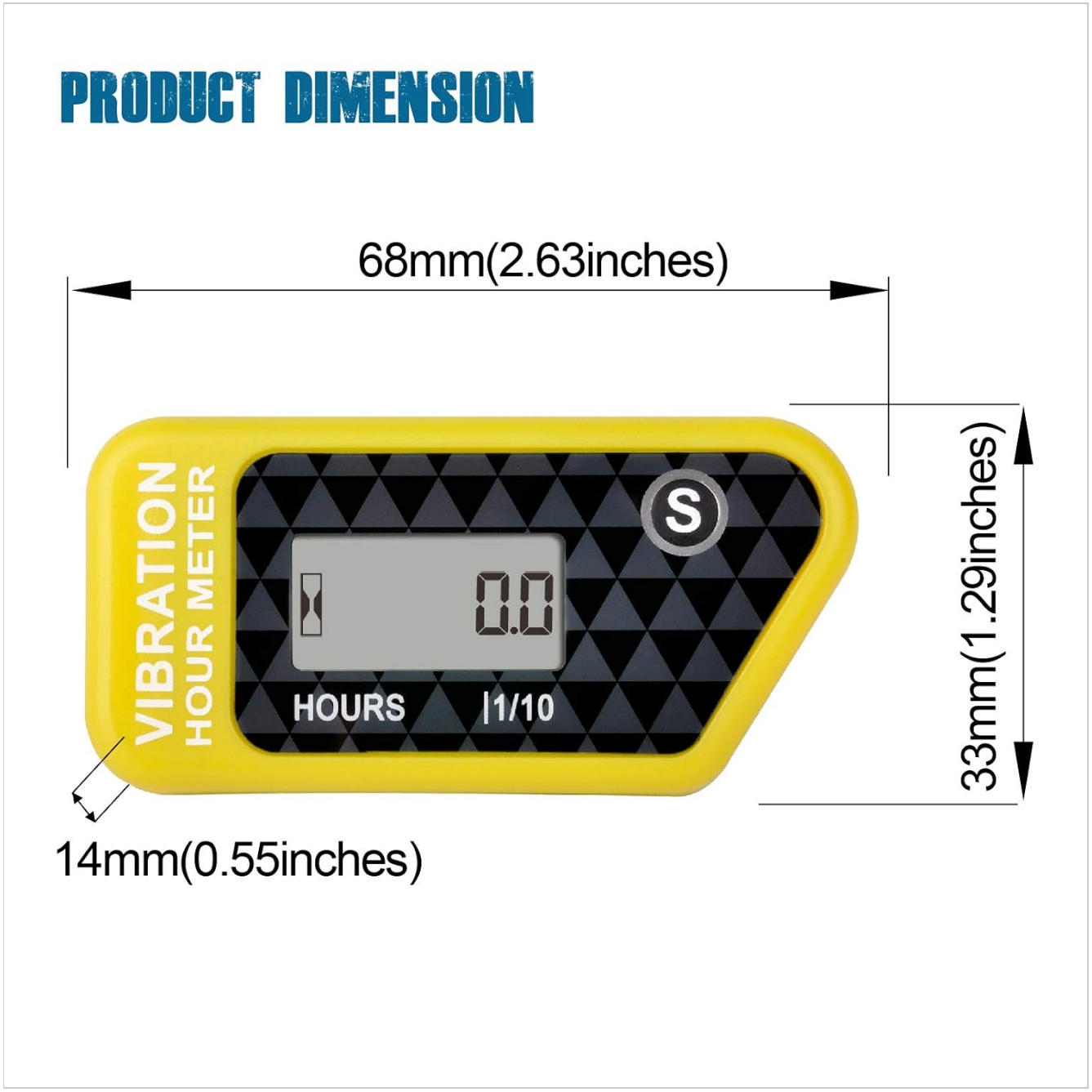

Figure 5: The complete package contents, including the hour meter, one piece of double-sided adhesive tape for mounting, and a paper card with the user manual.

Figure 6: Detailed product dimensions: 68mm (2.63 inches) in length, 33mm (1.29 inches) in width, and 14mm (0.55 inches) in thickness.

Figure 7: Various applications for the hour meter, including generators, pressure washers, compressors, chainsaws, motorcycles, and tractors.

Setup and Installation

1. **Choose a Mounting Location:** Select a flat, clean, and stable surface on your equipment where the hour meter can be securely attached and is exposed to the machine's vibration during operation. Ensure the location is not excessively hot or prone to direct impact.
2. **Clean the Surface:** Thoroughly clean the chosen mounting surface to remove any dirt, grease, or debris. Allow it to dry completely.
3. **Apply Double-Sided Tape:** Peel one side of the provided double-sided adhesive tape and firmly apply it to the back of the hour meter.
4. **Attach the Hour Meter:** Peel the other side of the double-sided tape and carefully press the hour meter onto the cleaned mounting surface. Apply firm pressure for a few seconds to ensure a strong bond.
5. **Initial Check:** Once installed, start your machine briefly to confirm the hour meter detects vibration and begins

accumulating time.

Operating Instructions

1. Total Hours (TOT)

- The hour meter automatically accumulates total working hours (TOT) when it detects vibration from the engine or machine.
- The TOT hours are non-resettable, providing a permanent record of the machine's total operational time.
- The display shows hours up to 99,999 hours with an accuracy of 0.1 hours.

2. Partial Timer (PAR)

- The partial timer allows you to track specific maintenance intervals.
- To reset the partial timer, press and hold the 'S' button for approximately 3 seconds until the PAR display resets to 0.0.
- This feature is useful for scheduling routine maintenance tasks like oil changes or filter replacements.

3. Adjusting Vibration Sensitivity

The hour meter offers two vibration sensitivity settings to ensure accurate timing across different types of equipment:

- **Low Sensitivity (LO):** Select this setting for machines with strong vibrations, typically with a frequency range greater than 32Hz. This prevents over-counting due to excessive vibration.
- **High Sensitivity (HI):** Select this setting for machines with weaker vibrations, typically with a frequency range greater than 4Hz. This ensures the meter accurately detects operation on less vibratory equipment.
- To switch between LO and HI sensitivity, refer to the specific instructions on the included paper manual or press the 'S' button repeatedly until the desired sensitivity is displayed.

4. Lock Shutdown Mode

- The hour meter can be put into a lock shutdown mode to extend battery life during periods of inactivity or transport.
- To activate lock shutdown, press and hold the 'S' button until "LOC" appears on the display. The display will then turn off.
- To reactivate the display and normal operation, press the 'S' button again.

Maintenance

- **Cleaning:** Wipe the hour meter with a soft, damp cloth to remove dust and dirt. Do not use harsh chemicals or abrasive cleaners.
- **Battery:** The hour meter uses a CR2050 Lithium Metal battery. The battery is sealed within the unit and is not user-replaceable. The unit is designed for long-term use without battery replacement.
- **Storage:** If storing the hour meter for an extended period, activate the lock shutdown mode to conserve battery life. Store in a cool, dry place.
- **Inspection:** Periodically check the adhesive tape for secure attachment. Re-apply if necessary.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Meter not accumulating hours.	Insufficient vibration detected; Incorrect sensitivity setting; Meter in lock shutdown mode; Improper mounting.	Ensure the machine is running and producing sufficient vibration. Adjust sensitivity to 'HI' for weaker vibrations. Press 'S' button to exit lock shutdown mode if "LOC" is displayed. Re-mount the meter to a location with better vibration transfer.
Display is blank.	Meter in lock shutdown mode; Battery depleted (unlikely for new unit).	Press 'S' button to reactivate the display. If still blank, contact customer support.
Inaccurate hour readings.	Incorrect sensitivity setting; External vibrations affecting meter.	Adjust sensitivity (LO for strong, HI for weak). Ensure meter is not picking up vibrations from other sources.

Specifications

Attribute	Detail
Model Number	RL-HM016B
Brand	Runleader
Product Dimensions (L x W x H)	6.85 x 1.4 x 3.35 cm (2.63 x 1.29 x 0.55 inches)
Item Weight	40 Grams
Screen Size	0.98 Inches
Battery Type	1 x CR2050 Lithium Metal (included, non-replaceable)
Waterproof Rate	IP67
Material	ABS
Country of Origin	China
Certifications	CE, ROHS

Safety Information and Warnings

⚠ WARNING ⚠

INGESTION HAZARD: This product contains a button cell or coin battery. Death or serious injury can occur if ingested. A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. KEEP new and used batteries OUT OF REACH OF CHILDREN. Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.

Figure 8: Important safety warning regarding the button cell battery inside the device. This warning emphasizes the severe risk of ingestion, especially for children, and advises immediate medical attention if ingestion is suspected.

Always handle the hour meter with care. Do not attempt to open the device or replace the internal battery, as this can compromise its waterproof sealing and safety features. Dispose of the product according to local regulations for electronic waste.

Warranty and Support

Runleader provides reliable technical support and after-sales service for this product. The hour meter comes with a**2-year warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use.
For technical assistance, warranty claims, or any questions regarding your Runleader Digital Wireless Hour Meter, please contact Runleader customer support through their official website or the retailer where the product was purchased.
Please have your model number (RL-HM016B) and purchase information ready when contacting support.

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