

Runleader RL-HM016B

Runleader Digital Self Powered Wireless Hour Meter RL-HM016B Instruction Manual

Model: RL-HM016B

1. PRODUCT OVERVIEW

The Runleader RL-HM016B is a digital, self-powered, wireless hour meter designed to track the total run time and job-specific times for equipment that generates vibration during operation. It features a resettable job timer, user lock shutdown, and programmable vibration sensitivity, making it suitable for a wide range of applications including generators, marine engines, ATVs, and lawn mowers.

2. KEY FEATURES

- **Hour Meter (TOT):** Displays the total accumulated run time of the machine. This value is non-resettable and has a 0.1-hour accuracy, tracking from 0 to 99,999 hours. The display automatically sleeps to save power, with data retained.
- **Job Timer (PAR):** Measures the duration of a specific work task, such as oil changes or air filter replacements. This timer is resettable and displays from 0 to 99,999 hours with 0.1-hour accuracy.
- **Vibration Sensitivity:** Offers programmable low (LO) and high (HI) sensitivity settings to accurately detect vibration frequencies from various machines. LO is suitable for equipment with vibration frequencies greater than 32 Hz, while HI is for frequencies greater than 4 Hz.
- **Lock Function:** Prevents unintended time recording during transport. When locked, the timer is inactive, the display is off, and previous data is saved.
- **Self-Powered:** Operates on an internal CR2032 battery with a life of up to 5 years. No external wiring for power is required.
- **Waterproof Design:** Rated IP68, ensuring durability in various environmental conditions.
- **Easy Installation:** Designed for simple stick-on mounting with included double-sided tape.

3. INSTALLATION

The RL-HM016B hour meter is designed for straightforward installation using its adhesive backing. Ensure the mounting surface is clean and dry for optimal adhesion.

3.1 Unboxing and Components

Upon opening the package, verify that all components are present:

- 1 x Runleader RL-HM016B Vibration Hour Meter
- 1 x Double-sided tape
- 1 x User manual



Image: Dimensions and included accessories for the Runleader RL-HM016B hour meter.

3.2 Mounting the Hour Meter

The hour meter can be mounted directly onto a vibrating part of your equipment using the provided double-sided tape. Choose a location that experiences consistent vibration during operation and is easily visible.

STICK-ON MOUNTING

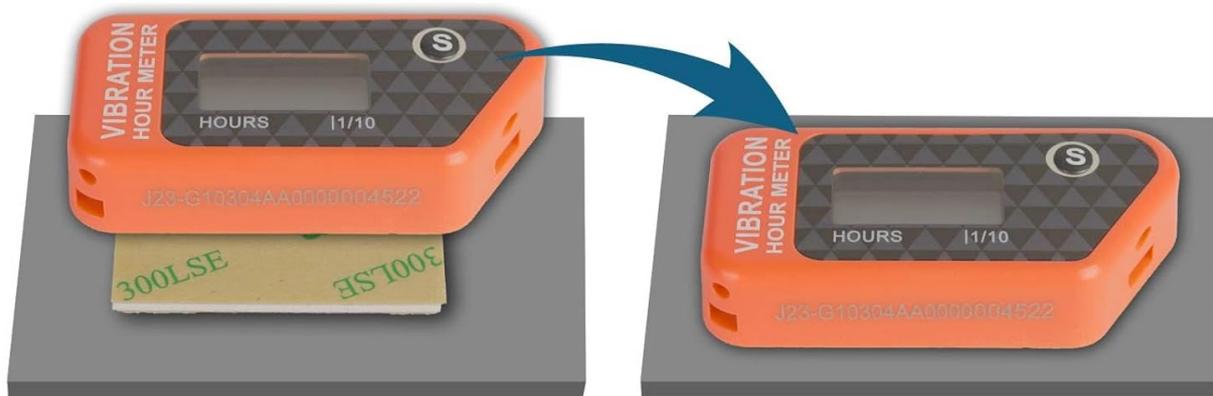


Image: Illustration of the stick-on mounting method for the hour meter.

3.3 Signal Wire Installation (if applicable for wired models)

While the RL-HM016B is wireless and vibration-activated, some models may include a signal wire for spark plug induction. If your model includes a signal wire, wrap one end into the card slot on the back of the hour meter and wrap the other end around the spark plug wire 5 times. Secure it with a cable tie. Ensure the pick-up wire does not make contact with the engine directly.

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Video: Demonstrates the installation process, including signal wire wrapping and mounting, for a similar Yooreal hour meter (YR-HM006A).

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Video: Shows the unboxing, protective film removal, and signal wire installation for a Yooreal Vibration Hour Meter.

4. OPERATION

The RL-HM016B is designed for simple, intuitive operation. It automatically activates upon sensing vibration from the equipment.

4.1 Total Hours (TOT) Recording

When the equipment vibrates, the hour meter automatically begins tracking the total running hours. The display will show the total hours, and an hourglass icon will flash to indicate active recording. Total hours are permanently stored and cannot be reset.

TOTAL HOURS RECORD



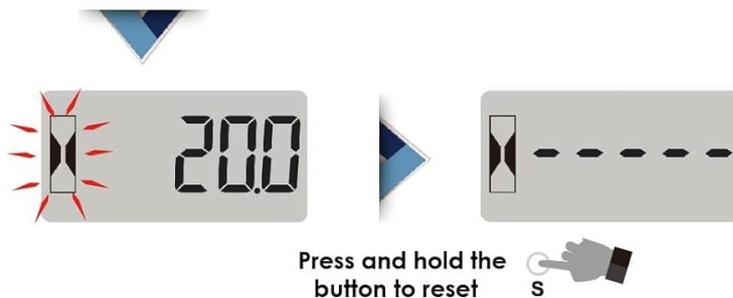
- It begins to track the total running hours when it detects the vibration signal of the machine. The total hours range: 0 to 99,999 hours.

Image: The hour meter displaying total accumulated hours (TOT).

4.2 Job Timer (PAR) Function

The job timer allows you to measure the duration of specific tasks. To view the job timer, press the 'S' button. To reset the job timer, press and hold the 'S' button until the display clears.

PARTIAL HOURS RECORD



Press and hold the
button to reset



- It record an resettable hours value during a single working period.

Image: The hour meter displaying the partial hours (PAR) and the process to reset it.

4.3 Adjusting Vibration Sensitivity

The meter has two programmable vibration sensitivity settings: 'LO' (low) and 'HI' (high). Select the appropriate sensitivity based on your equipment's vibration levels to ensure accurate tracking. 'LO' is for equipment with higher vibration frequencies (e.g., generators), and 'HI' is for equipment with lower vibration frequencies (e.g., electric fans).

ACCURATE WORKING SIGNAL PICKUP

It have 2 programmable vibration sensitivities which can works on various of equipments.

✓ Generator



"LO" --- High vibration($\geq 32\text{Hz}$)



✓ Electric fan



"HI" --- low vibration($\geq 4\text{Hz}$)



Image: Demonstrates the two programmable vibration sensitivity settings (LO and HI) for different equipment types.

4.4 Lock Function

To prevent accidental time recording during transport or when the equipment is not in use, activate the lock function. Press and hold the 'S' button to engage the lock. The display will show 'Loc' and then turn off. To unlock, press and hold the 'S' button again.

LCD DISPLAY LOCK



- You can lock the LCD display during transport or strong vibration, which can be avoid the useless hours running and save the battery lifetime.

Image: The hour meter displaying 'Loc' to indicate the lock function is active, preventing unwanted time accumulation.

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Video: Demonstrates the automatic activation, job timer reset, and lockdown feature of a similar vibration-activated hour meter.

5. MAINTENANCE

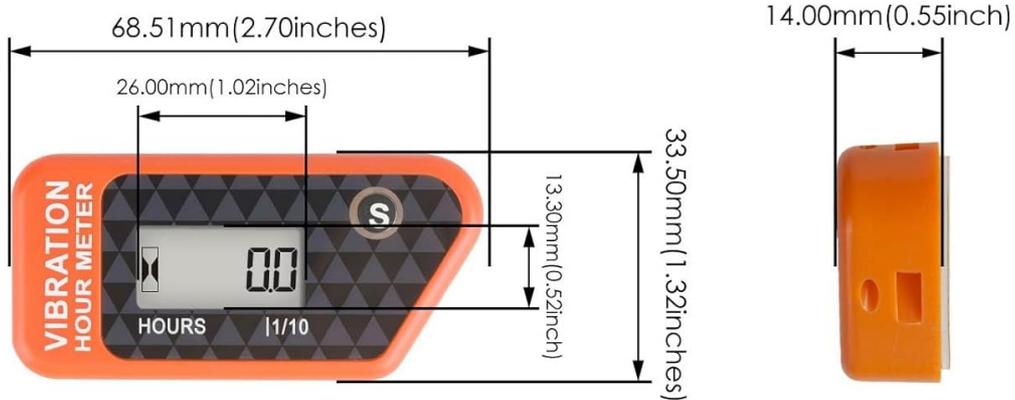
The Runleader RL-HM016B is designed for minimal maintenance. The internal battery is sealed and not user-replaceable. The unit is 100% epoxy sealed for durability and water resistance.

5.1 Cleaning

Clean the exterior of the hour meter with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could damage the display or casing.

DIMENSION & ACCESSORIES

■ Dimension



■ Accessories



Blister card*1



Double sided tape*1

Image: The hour meter undergoing an IP68 waterproof test, demonstrating its robust design.

5.2 Battery Life

The internal CR2032 battery has a life of up to 5 years. Data is retained even after the display is off or the battery is depleted.

6. TROUBLESHOOTING

If the hour meter is not functioning as expected, consider the following:

- **No Reading/Inaccurate Reading:** Ensure the meter is securely mounted on a part of the equipment that vibrates consistently during operation. Adjust the vibration sensitivity setting (LO/HI) to match your equipment's vibration characteristics.
- **Display Off:** Check if the lock function is activated. If so, unlock the device. The display also turns off automatically to save power when not actively sensing vibration.
- **Low Voltage Reminder:** If the battery voltage drops below 2.7V, a low voltage reminder (b-Lo) will appear. While the battery is not user-replaceable, this indicates it may be nearing the end of its life.

7. SPECIFICATIONS

Feature	Specification
Model Number	RL-HM016B
Manufacturer	Ningbo Jiangbei Run Leader Electronics Co., Ltd
Item Weight	50 g
Product Dimensions	6.8 x 3.3 x 1.4 cm
Power Source	1 Lithium Metal battery (included)
Battery Cell Type	Lithium Metal
Color	Orange
Material	Plastic
Waterproof Rating	IP68
Hour Resolution	0.1 hour
Total Hours Range	0 to 99,999 Hours
Job Timer Range	0 to 99,999 Hours

7.1 Applicable Equipment

This hour meter is suitable for a wide range of equipment that generates vibration during operation, including but not limited to:

- Lawn Mowers
- Generators
- Compressors
- Motorcycles
- Outboard Motors
- Chainsaws
- ATVs
- Marine Equipment

APPLICATION

It is applicable to all types of machine worked by gas/diesel engine, AC/DC power, such as:

- Lawn mower
- Generator
- Compressor
- Motorcycle
- Outboard Motor
- Chainsaw etc.



Lawn mower



Generator



Compressor



Motorcycle



Outboard Motor



Chainsaw

Image: Visual representation of various equipment types where the hour meter can be applied.

8. WARRANTY AND SUPPORT

The Runleader RL-HM016B comes with a 2-year warranty. For technical support or warranty claims, please contact Runleader customer service through the retailer where the product was purchased.