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› Runleader Digital Wireless Hour Meter User Manual

Runleader RL-HM059

Runleader Digital Wireless Hour Meter User Manual

Model: RL-HM059

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Runleader Digital Wireless Hour Meter (Model RL-HM059). This device is designed to track the operating hours of various equipment by sensing vibrations, offering features such as total hour accumulation, service reminders, and job timers. Please read this manual thoroughly before using the product to ensure proper function and longevity.

PRODUCT OVERVIEW

The Runleader RL-HM059 is a self-powered, cordless hour meter activated by vibration. It features a clear LCD display and multiple timing functions.



Figure 1: Front view of the Runleader Digital Wireless Hour Meter, showing the display and "Vibration Activated" label.

Key Features:

- **Hour Meter (TOT):** Tracks total accumulated running hours (non-resettable).
- **Service Timers (SVC1 & SVC2):** Programmable countdown timers for maintenance reminders.
- **Job Timers (JOB1 & JOB2):** Resettable timers for tracking specific work durations.
- **Programmable Vibration Sensitivity:** Adjustable sensitivity (Low, Medium, High) for various equipment types.
- **Lock Function:** Prevents accidental time accumulation during transport or storage.
- **Waterproof Design:** IP68 rated for durability in various environments.

SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	RL-HM059
Brand	Runleader
Material	Acrylonitrile Butadiene Styrene (ABS)
Dimensions (L x W x H)	5.69 x 3.61 x 1.73 cm
Weight	59 g (0.13 Pounds)
Screen Size	1.42 Inches
Battery Type	1 Lithium Metal battery (included)
Waterproof Rating	IP68
Accuracy	1 minute
Total Hours Display Range	0 to 999,999 Hours

WATERPROOF

IP67
Waterproof



PRODUCT ACCESSORIES LIST



Product*1



User manual*1



Double-sided tape*1



Screws*2



Runleader color box*1

Figure 2: Diagram showing the dimensions of the Runleader Digital Wireless Hour Meter in millimeters.

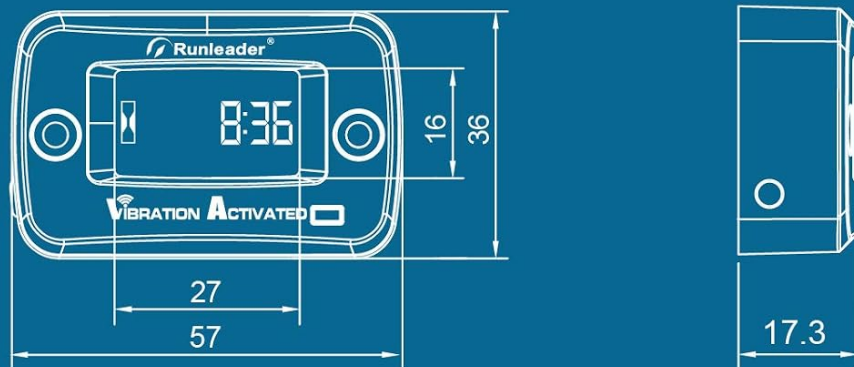
SETUP AND INSTALLATION

The Runleader RL-HM059 is designed for easy installation. It can be mounted using screws or double-sided tape.

Package Contents:

- Runleader Digital Wireless Hour Meter (x1)
- User Manual (x1)
- Double-sided tape (x1)
- Mounting Screws (x2)

PRODUCT SIZE



Unit: mm



SCOPE OF APPLICATION



Motorcycle



ATV



Outboard Motor



Generator



Lawn Mower



Chainsaw



Road Machinery



Road Machinery



Figure 3: Illustration of the product and its included accessories: the hour meter, user manual, double-sided tape, and two screws.

Installation Steps:

- 1. Choose a Mounting Location:** Select a flat, stable surface on your equipment where the hour meter will be exposed to vibrations and is easily visible. Ensure the surface is clean and dry.
- 2. Mounting with Double-sided Tape:**
 - Peel off one side of the protective film from the double-sided tape.
 - Carefully align and press the tape firmly onto the back of the hour meter.
 - Peel off the remaining protective film from the tape.
 - Press the hour meter firmly onto the chosen mounting surface for at least 30 seconds to ensure good adhesion.
- 3. Mounting with Screws:**
 - Mark the positions for the two mounting screws using the hour meter's screw holes as a template.

- Drill pilot holes if necessary, appropriate for the screw size and material.
- Align the hour meter with the pilot holes and secure it using the provided screws. Do not overtighten.

Once installed, the meter is ready for operation. It will activate automatically upon sensing vibrations from the equipment.

OPERATING INSTRUCTIONS

The Runleader RL-HM059 operates automatically once installed and exposed to vibrations. It features several display modes and programmable settings.

Display Modes and Functions:

- **Total Hour Meter (TOT):**

This displays the total accumulated operating hours of the equipment. The TOT hours are non-resettable and remain visible on the display. Accuracy is 1 minute, and the display range is 0 to 999,999 hours.

TOT HOURS

Accumulate total running hours



Figure 4: The hour meter displaying the total accumulated running hours (TOT).

- **Job Timers (JOB1 & JOB2):**

These timers are used to measure the duration of specific tasks or jobs. They are resettable, allowing you to track

time for activities like oil changes or specific project durations. The display range is 0 to 999,999 hours with 1-minute accuracy.

JOB1 & JOB2

Used to measure the time of a particular job.
(e.g. Change engine oil)



JOB timers are resettable.

Figure 5: The hour meter displaying JOB1 and JOB2 timers, which are resettable for tracking specific tasks.

- **Service Timers (SVC1 & SVC2):**

These are programmable countdown timers (0-1000 hours) designed to remind you of scheduled maintenance. When the countdown reaches zero, the display will flash an alert. This is useful for reminders like air filter replacement.

SVC1 & SVC2 TIMER

Countdown tracking time, Maintenance reminder.
(e.g. Air filter replacement)



Figure 6: The hour meter displaying SVC1 and SVC2 timers, used for maintenance reminders.

Adjusting Vibration Sensitivity:

The meter features three vibration sensitivity settings to ensure accurate tracking across different types of equipment.

- **SEN-1 (Low):** Suitable for equipment with low vibration (frequency > 32 Hz).
- **SEN-2 (Medium):** Suitable for equipment with medium vibration (frequency > 18 Hz).
- **SEN-3 (High):** Suitable for equipment with high vibration (frequency > 4 Hz).

To adjust sensitivity, refer to the detailed instructions in the full user manual (link provided in support section) or the product's quick start guide. Typically, this involves pressing and holding a button to cycle through the settings.

VIBRATION SENSITIVITY

3 MODES :
LOW / MEDIUM / HIGH



Sensitivity-Low

SEN-2

Sensitivity-Medium

SEN-3

Sensitivity-High

According to the strength of vibration to adjust it.

Figure 7: The hour meter displaying different vibration sensitivity settings: SEN-1 (Low), SEN-2 (Medium), and SEN-3 (High).

Lock Function (Shutdown):

The lock function prevents the meter from accumulating hours during transport or when not in use. When activated, the display will turn off, and no time will be recorded. Previous data is automatically saved.

To activate/deactivate the lock function, press and hold the button until "LOC" appears or disappears from the display, indicating the meter is locked or unlocked, respectively.

SHUT DOWN LCD

The historical data can be retained and will not be cleared.



Figure 8: The hour meter showing the "LOC" indicator for the lock function, which shuts down the display and stops time recording.

MAINTENANCE

The Runleader RL-HM059 is designed for low maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Wipe the meter with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Water Exposure:** While the meter is IP68 waterproof, avoid prolonged submersion or high-pressure water jets.
- **Battery:** The internal lithium metal battery is designed for long life and is not user-replaceable. If the display becomes dim or unresponsive, the battery may be depleted, indicating the end of the product's life cycle.
- **Storage:** If storing the equipment for an extended period, consider activating the lock function to conserve battery life and prevent accidental hour accumulation.

Using Service Timers (SVC1 & SVC2):

Utilize the programmable service timers to set reminders for routine maintenance tasks on your equipment, such as:

- Oil changes
- Air filter replacement
- Spark plug inspection
- General equipment servicing

To set or reset SVC timers, refer to the detailed operating instructions in the full user manual.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Meter is in lock mode ("LOC"). Battery is depleted.	Deactivate lock mode by pressing and holding the button. The battery is not user-replaceable. If depleted, the product has reached its end of life.
Hour meter not accumulating time.	Meter is in lock mode ("LOC"). Insufficient vibration. Incorrect vibration sensitivity setting.	Deactivate lock mode. Ensure the equipment is running and producing sufficient vibration. Adjust vibration sensitivity (SEN-1, SEN-2, SEN-3) to match your equipment's vibration level. Try a higher sensitivity setting.
JOB timer not resetting.	Incorrect button operation.	Ensure you are following the correct procedure for resetting JOB timers as outlined in the full user manual.
SVC timer not alerting.	SVC timer not set correctly or has already alerted and been reset.	Verify the SVC timer is programmed with a future maintenance interval.

WARRANTY INFORMATION

Runleader products are covered by a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
The warranty does not cover damage caused by:

- Improper installation or use
- Accident, abuse, or neglect
- Unauthorized repairs or modifications
- Natural disasters or acts of God

Please retain your proof of purchase for warranty claims.

SUPPORT AND CONTACT INFORMATION

For further assistance, detailed operating instructions, or warranty claims, please contact Runleader customer support:

- **Manufacturer:** Ningbo Jiangbei Run Leader Electronics Co., Ltd
- **Website:** www.runleader.net (Note: This is a hypothetical link as no official support link was provided in the input. Users should refer to product packaging or official brand website for actual support contact.)
- **Email:** Refer to your product packaging or the official Runleader website for the most current contact email.

When contacting support, please have your product model number (RL-HM059) and proof of purchase ready.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

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