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Runleader RL-HM019B

Runleader Digital Vibration Activated Hour Meter Gauge User Manual

Model: RL-HM019B

Introduction

The Runleader Digital Vibration Activated Hour Meter Gauge (Model RL-HM019B) is designed to track the operating hours of various engines and equipment. It features total hour counting, job hour recording, multiple maintenance reminders, and adjustable vibration sensitivity. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your device.

Product Features

- **Hours Counter:** Tracks total engine working hours and single working period hours. Allows setting a previous hour value for new meter replacements. Total hours range: 0 to 99,999 hours.
- **Maintenance Intervals:** Features 5 independent channels for regular maintenance task reminders. Maintenance hours range per channel: 0 to 1000 hours.
- **Vibration Sensitivity:** Programmable with 3 sensitivity levels (Low, Medium, High) to suit various machines and ensure accurate hour readings.
- **Easy Installation:** Can be installed via stick-on or screw-on methods. Automatically counts hours upon detecting machine vibration.
- **Durability:** Includes a lock-down feature for transport protection, built-in CR2450 battery, and favorable water (IP68) and shock resistance due to PC screen and 100% epoxy resin craft.

Setup and Installation

The hour meter can be installed using either stick-on or screw-on methods. Choose the method most suitable for your equipment and mounting location.



This image illustrates the two primary mounting methods for the hour meter: stick-on using adhesive backing and screw-on using the integrated mounting holes. Both methods are designed for secure attachment to your equipment.

Stick-on Mounting:

1. Clean the desired mounting surface thoroughly to ensure it is free of dust, grease, and moisture.
2. Peel off the protective backing from the double-sided adhesive tape (included).
3. Press the hour meter firmly onto the cleaned surface for at least 30 seconds to ensure good adhesion.

Screw-on Mounting:

1. Identify a suitable flat surface on your equipment for mounting.
2. Mark the positions for the two mounting screws using the hour meter's holes as a template.
3. Drill pilot holes if necessary, ensuring they are appropriate for the included screws.
4. Secure the hour meter in place using the two screws provided.

The hour meter will automatically begin counting hours when it detects vibration from the machine's operation.

Operating Instructions

The Runleader hour meter provides two main hour tracking functions: Total Hours (TOT) and Job Hours (JOB).



This image shows the display for Total Hours (TOT) and Job Hours (JOB). The TOT display tracks cumulative hours, while the JOB display tracks hours for a single operational period, which can be reset.

Total Hours (TOT):

The TOT display shows the cumulative running hours of the engine. This value is non-resettable and continuously accumulates as long as the meter detects vibration. If replacing an old hour meter, you can set a previous hour value to maintain a continuous record. Refer to the specific programming instructions for setting initial hours (H-SET).

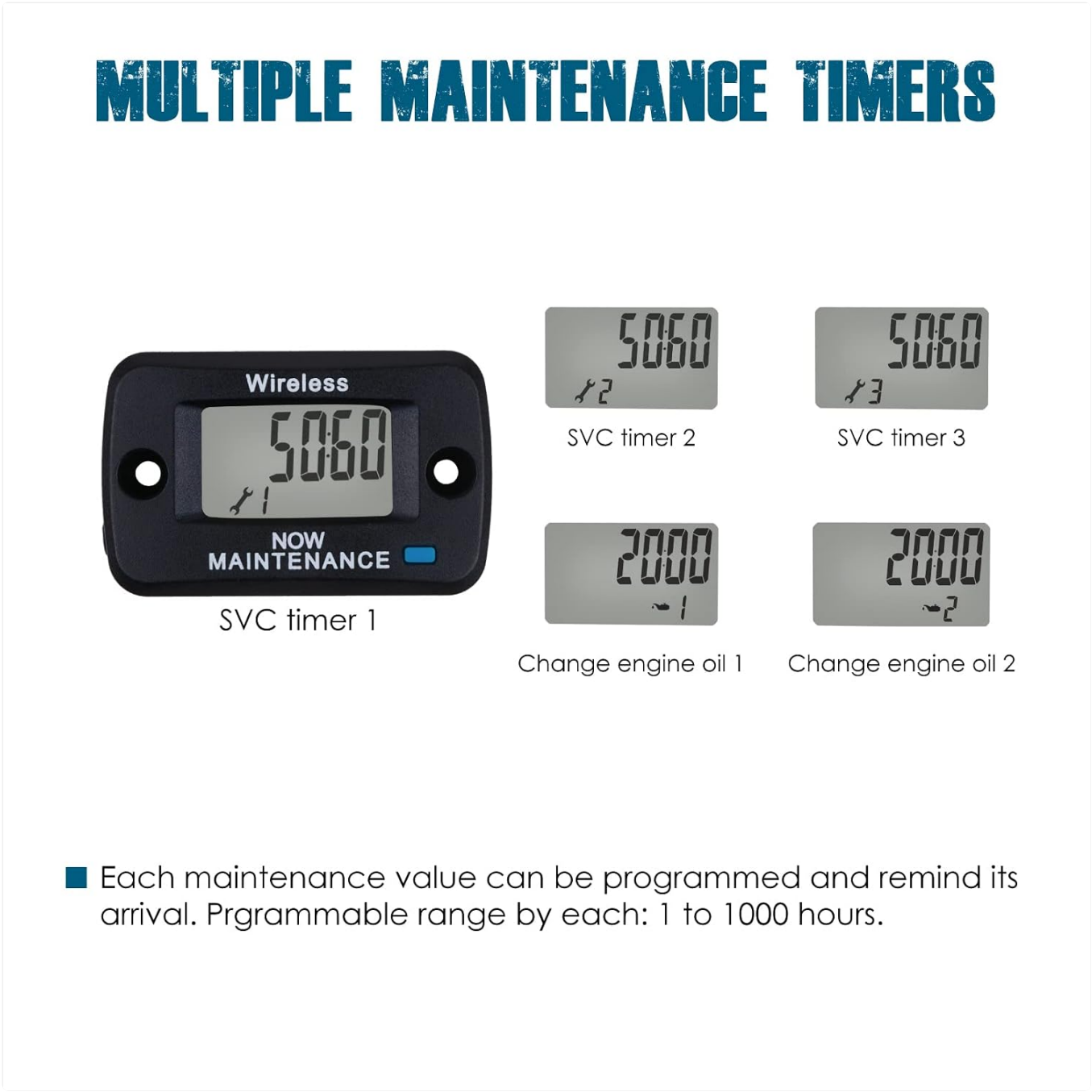
Job Hours (JOB):

The JOB display tracks the hours for a single working period. This value can be reset to zero after each use or as needed for specific task tracking. To reset the JOB hours, press and hold the button on the meter until the display resets.

Maintenance Reminders:

The meter includes 5 independent maintenance channels (SVC timer 1, SVC timer 2, SVC timer 3, Change engine oil 1,

Change engine oil 2). Each can be programmed with a specific hour interval (1 to 1000 hours). When the accumulated hours reach the programmed interval, the meter will display a reminder to perform the scheduled maintenance.



This image illustrates the various maintenance timer displays, including SVC timers and engine oil change reminders. Each timer can be programmed to alert you when a specific operating hour threshold is reached.

Refer to the programming section for detailed instructions on setting and resetting maintenance intervals.

Programmable Vibration Sensitivity

The hour meter features adjustable vibration sensitivity to ensure accurate readings across different types of equipment and vibration levels. There are three sensitivity levels:

- **SEN-1:** Low vibration sensitivity (>32Hz)
- **SEN-2:** Medium vibration sensitivity (>18Hz)
- **SEN-3:** High vibration sensitivity (>4Hz)



This image displays the different vibration sensitivity settings (SEN-1, SEN-2, SEN-3) and their corresponding frequency thresholds. Adjusting this setting helps optimize the meter's accuracy for various engine types.

To adjust the sensitivity, refer to the programming section of the full user manual. Selecting the appropriate sensitivity level for your equipment will help calibrate the hour accuracy.

Maintenance

The Runleader hour meter is designed for low maintenance. The primary maintenance function is the use of its built-in maintenance reminders.

Setting Maintenance Reminders:

The meter allows you to set up to 5 independent maintenance reminders. Each reminder can be programmed for an interval between 1 and 1000 hours. Once the meter reaches the set hour count for a specific reminder, it will display a notification (e.g., "NOW MAINTENANCE" or a wrench icon) to indicate that service is due.
To program or reset a maintenance reminder, consult the detailed programming instructions in the complete user manual. Typically, this involves navigating through the menu using the meter's button and setting the desired hour value for each service channel.

General Care:

- Keep the meter clean by wiping it with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- Ensure the meter is securely mounted to prevent accidental detachment or damage from excessive vibration.
- The meter is IP68 waterproof, meaning it is protected against dust and can withstand immersion in water up to 1.5 meters for 30 minutes. However, avoid prolonged submersion or high-pressure water jets directly on the display.



This image demonstrates the hour meter's strong water resistance, showing it submerged in a testing tank. The device is rated IP68, indicating high protection against water ingress.

Troubleshooting

If you encounter issues with your Runleader hour meter, consider the following common troubleshooting steps:

- **Meter not counting hours:**
    - Ensure the meter is securely mounted to a part of the equipment that experiences significant vibration during operation.

- Check the vibration sensitivity setting. If the equipment's vibration is low, you may need to set the sensitivity to "High" (SEN-3).
- Verify the equipment is running and producing sufficient vibration for detection.

- **Display is blank or dim:**
  - The meter has a built-in CR2450 battery. While designed for long life, if the display is consistently dim or blank, the battery may be low. Consult the full manual for battery replacement procedures if applicable, or contact support.
  - Ensure the meter is not exposed to extreme temperatures outside its operating range.
- **Inaccurate hour readings:**
  - Adjust the vibration sensitivity (SEN-1, SEN-2, SEN-3) to match the vibration characteristics of your equipment. Incorrect sensitivity can lead to over or under-counting.
  - Ensure the meter is not experiencing external vibrations when the equipment is off, which could lead to false readings.
- **Maintenance reminder not activating:**
  - Verify that the maintenance interval was correctly programmed.
  - Ensure the total hours have reached or exceeded the programmed maintenance threshold.

For further assistance, refer to the comprehensive troubleshooting guide in the full user manual or contact Runleader customer support.

Specifications

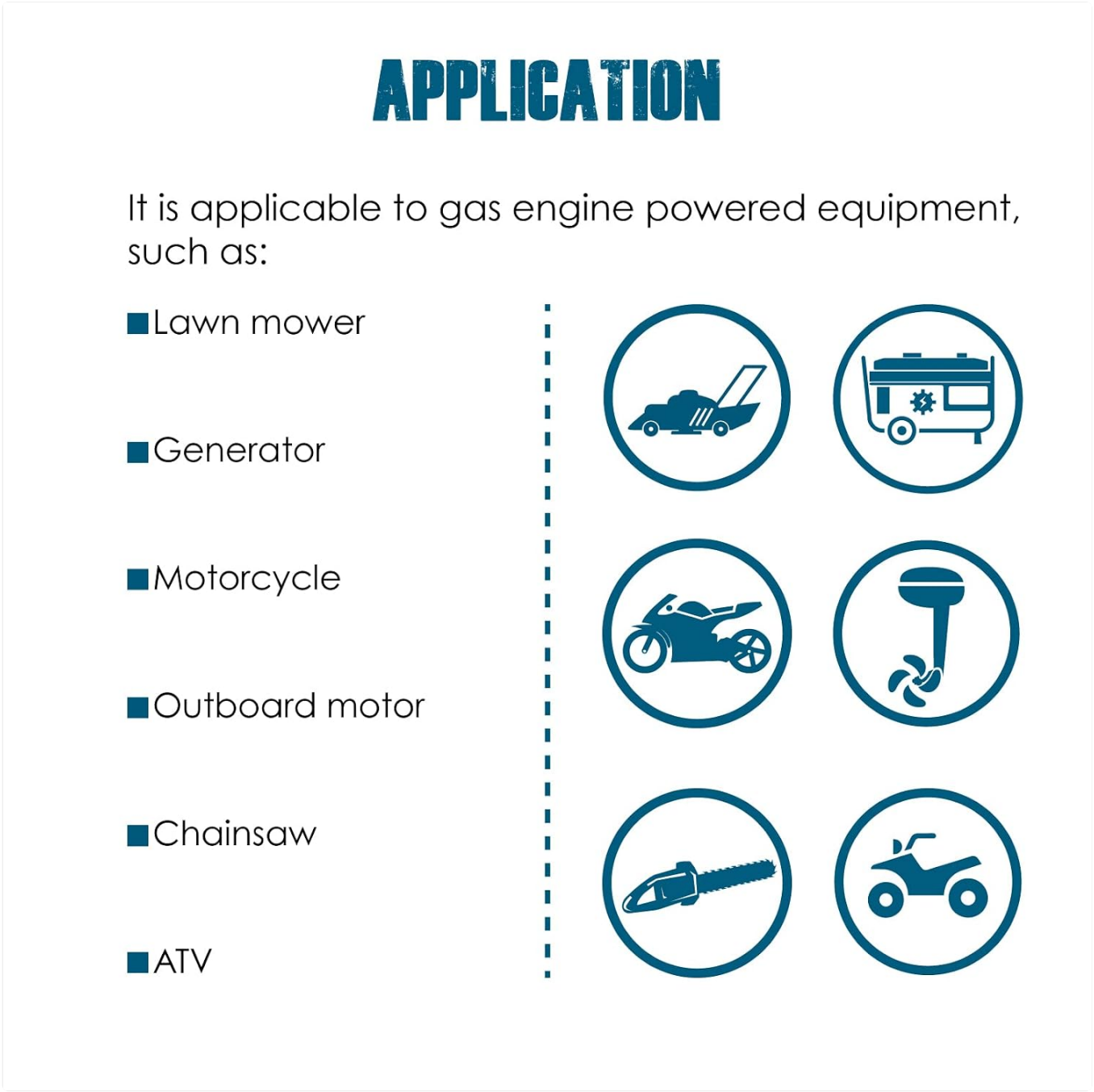
Feature	Detail
Product Dimensions	2.24 x 0.68 x 1.42 inches (57 x 17.3 x 36 mm)
Item Model Number	RL-HM019B
Batteries	1 Lithium Metal battery (CR2450, included)
Manufacturer	Ningbo Jiangbei Run Leader Electronics Co., Ltd
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	2.12 ounces (60 Grams)
Water Resistance	IP68
Hours Range	0 to 99,999 hours
Maintenance Hours Range	0 to 1000 hours (per channel)
Vibration Sensitivity Levels	Low (>32Hz), Medium (>18Hz), High (>4Hz)



This image provides a detailed diagram of the hour meter's dimensions in both millimeters and inches, showing its length, width, and height.

Applicable Equipment

The Runleader Digital Vibration Activated Hour Meter is suitable for a wide range of gas or diesel engine powered equipment, including but not limited to:



This image illustrates various applications for the hour meter, including lawn mowers, generators, motorcycles, outboard motors, chainsaws, and ATVs, demonstrating its versatility across different engine types.

- Lawn Mowers
- Generators
- Motorcycles
- Outboard Motors
- Chainsaws
- ATVs (All-Terrain Vehicles)
- Compressors
- High Pressure Washers

Included Accessories

The following items are typically included with your Runleader Digital Vibration Activated Hour Meter:



This image displays the standard accessories included with the hour meter: the product itself, double-sided tape, a maintenance mark sticker, two screws, a user manual, and the Runleader color box packaging.

- Product (Hour Meter) x 1
- Double-sided Tape x 1
- Maintenance Mark Sticker x 1
- Screws x 2
- User Manual x 1
- Runleader Color Box x 1

Warranty and Support

Runleader products are manufactured to high quality standards. For warranty information, technical support, or any inquiries regarding your hour meter, please refer to the contact details provided in the included user manual or visit the official Runleader website. Ensure you have your model number (RL-HM019B) and purchase details ready when contacting support.

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Details

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

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