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Runleader RL-HM019E

Runleader Digital Vibration Hour Meter RL-HM019E User Manual

Model: RL-HM019E

1. PRODUCT OVERVIEW

The Runleader Digital Vibration Hour Meter RL-HM019E is a cordless, waterproof device designed to track the operating hours of various equipment by detecting vibrations. It features adjustable sensitivity, total and partial hour recording, maintenance reminders, and a display lock function.



Figure 1: Runleader Digital Vibration Hour Meter RL-HM019E.

2. SETUP AND INSTALLATION

2.1 Mounting the Hour Meter

The hour meter can be installed using either stick-on or screw-on methods, providing flexibility for various applications.

APPLICATIONS

It is applicable to various of machines by gas/diesel engine, AC/DC power, such as:

- Lawn mower
- Generator
- ATV
- Motorcycle
- Boat
- Chainsaw



Figure 2: Illustration of stick-on and screw-on mounting methods.

2.1.1 Stick-on Mounting

Clean the surface where the meter will be attached. Remove the protective backing from the double-sided tape (included) and firmly press the hour meter onto the desired location.

2.1.2 Screw-on Mounting

Position the hour meter and mark the locations for the two mounting screws. Drill pilot holes if necessary, then secure the meter using the provided screws.

2.2 Battery Information

The device comes with a built-in CR2450 lithium metal battery. This battery is designed for long standby time and is included with the product.

2.3 Adjusting Vibration Sensitivity

The hour meter features three adjustable sensitivity levels (Low, Medium, High) to accommodate different machine vibration frequencies. This ensures accurate tracking across various equipment types.

ACCURATE WORKING SIGNAL PICKUP

It have 3 programmable vibration sensitivities which can works on various of equipments.

✓ Generator



"SEN-1" ---
High vibration($\geq 32\text{Hz}$)

✓ Lawn mower



"SEN-2" ---
Medium vibration($\geq 18\text{Hz}$)

✓ Electric fan



"SEN-3" ---
low vibration($\geq 4\text{Hz}$)

Figure 3: Examples of sensitivity settings for different equipment types (Generator, Lawn Mower, Electric Fan).

- **SEN-1 (High Vibration):** Suitable for equipment with strong vibrations (e.g., $\geq 32\text{Hz}$).
- **SEN-2 (Medium Vibration):** Suitable for equipment with moderate vibrations (e.g., $\geq 18\text{Hz}$).
- **SEN-3 (Low Vibration):** Suitable for equipment with low vibrations (e.g., $\geq 4\text{Hz}$).

Refer to the specific instructions included with your product for details on how to change the sensitivity setting.

3. OPERATING INSTRUCTIONS

3.1 Total Hours (TOT) Recording

The meter automatically begins tracking total running hours (TOT) once it detects vibration from the machine. The total hours range from 0 to 999,999 hours.

HOURS RECORD



■ TOT

It begin to track the total running hours when detect the vibration signal of machine. The total hours range: 0 to 999,999 hours.

■ JOB1 & JOB2 hours

It record 2 resettable hours value during single working period.

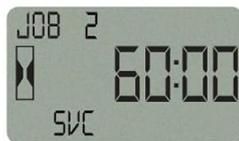


Figure 4: Display showing Total Hours (TOT).

3.2 Partial Hours (JOB) Recording

The device can record two resettable partial hour values (JOB1 and JOB2) during a single working period. These can be reset for individual task tracking.

MAINTENANCE REMINDERS



- It perform 2 regular maintenance tasks by countdown for different components, help you to know the arrival status. SVC range: 0 to 1000 hours/each.

Figure 5: Display showing Partial Hours (JOB).

3.3 Maintenance Reminders (SVC)

The hour meter allows you to set two regular maintenance tasks (SVC) with a countdown timer. This feature helps you monitor and perform timely maintenance for different components. The SVC timer range is 0 to 1000 hours per group.

DISPLAY LOCK IN



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

Figure 6: Display showing Maintenance Reminders (SVC).

3.4 Display Lock Function

The display lock feature allows you to lock the LCD display. This prevents unintended hour accumulation during transportation or periods of strong, non-operational vibration, thereby conserving battery life.

STRONG WATER RESISTANCE



Figure 7: Illustration of the display lock function.

4. MAINTENANCE

The Runleader Digital Vibration Hour Meter is designed for durability and minimal maintenance. It is constructed with 100% epoxy resin craft, providing strong water resistance up to IP68.

PRODUCT MOUNTING

■ Stick-on mounting



■ Screw-on mounting

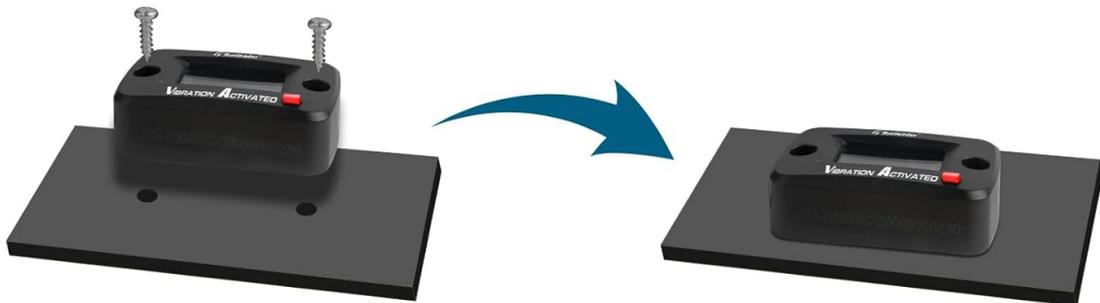


Figure 8: Demonstration of the IP68 waterproof rating.

Regularly check the device for any physical damage. Keep the display clean for optimal readability. The built-in CR2450 battery has a long lifespan and typically does not require user replacement. Utilize the SVC maintenance reminders to schedule and perform routine service on your equipment.

5. TROUBLESHOOTING

If you encounter issues with your Runleader Digital Vibration Hour Meter, consider the following:

- **Meter not recording hours:** Ensure the device is securely mounted and the vibration sensitivity is set appropriately for your equipment. Adjust the sensitivity if necessary.
- **Display not working:** Check if the display lock function is activated. If the display remains blank, the internal battery may be depleted. While designed for long life, extreme conditions or prolonged storage may affect it.
- **Inaccurate readings:** Verify the sensitivity setting. Too high or too low sensitivity can lead to inaccurate hour tracking.

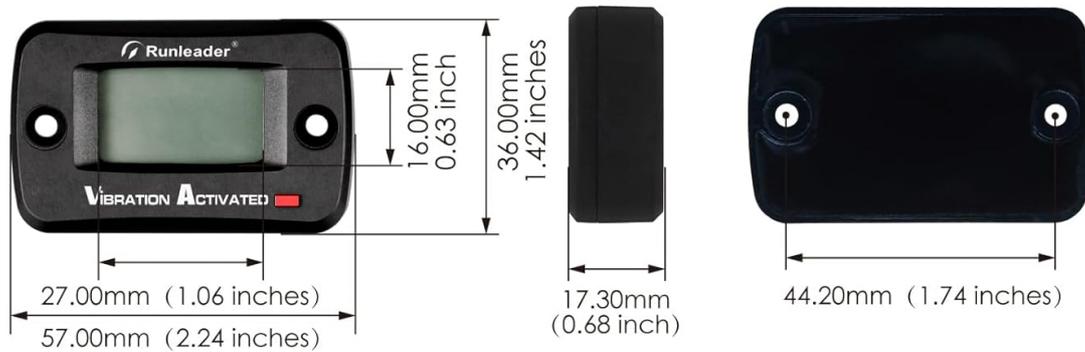
For persistent issues, please contact Runleader customer support.

6. SPECIFICATIONS

Below are the technical specifications for the Runleader Digital Vibration Hour Meter RL-HM019E:

DIMENSION & ACCESSORIES

■ Dimensions



■ Accessories



Runleader color Box*1



User manual*1



Double-sided tape*1



Screws*2



CUT-OUT

Figure 9: Product dimensions and included accessories.

Specification	Value
Model Number	RL-HM019E
Item Weight	55 g
Batteries	1 Lithium Metal battery (CR2450), included
Material	Acrylonitrile Butadiene Styrene (ABS)
Measurement Accuracy	0.1 hours
Dimensions (L x W x H)	56.98 mm x 36 mm x 17.3 mm (approx. 2.24 x 1.42 x 0.68 inches)
Waterproof Rating	IP68
Total Hours Range	0 to 999,999 hours

Specification	Value
SVC Timer Range	0 to 1000 hours per group
Mounting Options	Stick-on, Screw-on

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This Runleader Digital Vibration Hour Meter RL-HM019E comes with a **2-year warranty** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official Runleader website or contact their customer service department. Contact information can typically be found on the product packaging or the manufacturer's website.

You can also refer to the [Runleader Store on Amazon](#) for additional resources and product information.