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Runleader RL-HM004

Runleader Mechanical Hour Meter RL-HM004 User Manual

Model: RL-HM004 | Brand: Runleader

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Runleader Mechanical Hour Meter, Model RL-HM004. This device is designed to accurately track the total operating hours of various equipment and machinery powered by AC 110V to 250V. It is a non-resettable hour counter, ideal for maintenance scheduling and warranty tracking.



Image 1.1: Front view of the Runleader Mechanical Hour Meter RL-HM004.

2. PRODUCT FEATURES

- **Hours Counter:** Tracks total run time up to 99,999.9 hours. The display is non-resettable, ensuring accurate long-term data for maintenance purposes.
- **Wide Voltage Application:** Operates with external power sources ranging from AC 110V to 250V, compatible with common voltages like 110V, 120V, 220V, and 230V.
- **Automatic Data Storage:** Historic hour values are permanently stored through a mechanical design and internal EEPROM system, even without power.
- **Water Resistance:** Features an IP65 rating, providing favorable water resistance for various operating environments.

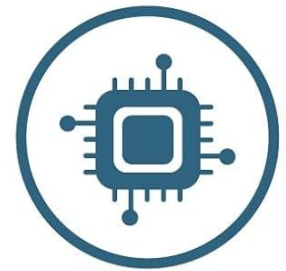
TOTAL HOURS ACCUMULATE



- It begin to record the total working hours when machine is on.
- TOT hours range: 0 to 99,999.9 hours, non-resettable.

Image 2.1: The hour meter display showing accumulated total hours.

AUTOMATIC DATA STORAGE



Auto storage

- The working data can be saved when power is off by inner CMOS EEPROM system.

Image 2.2: Illustration of the automatic data storage capability.

FAVORABLE WATER RESISTANCE



Image 2.3: The hour meter demonstrating its IP65 water resistance.

3. SETUP AND INSTALLATION

3.1 Panel Cut-out and Mounting

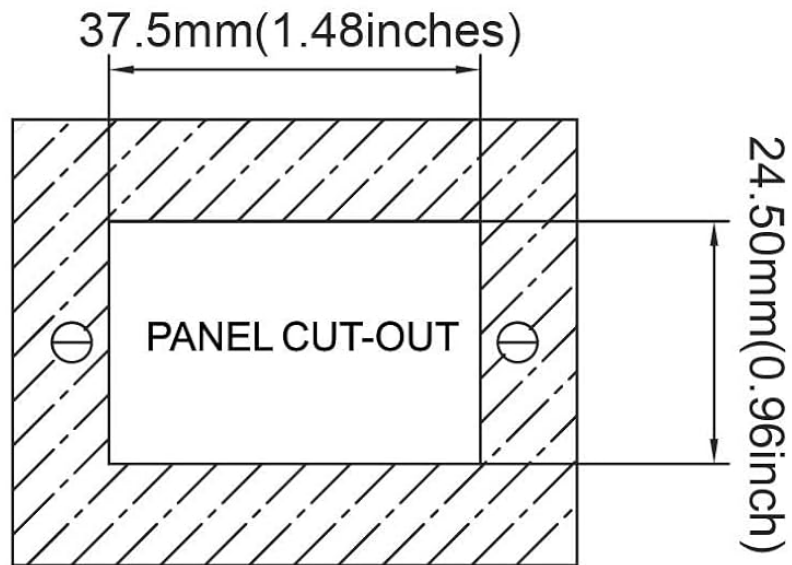
The hour meter is designed for easy drill-in and snap-in mounting. Prepare a panel cut-out with the specified dimensions:

- Width: 37.50 mm (1.48 inches)
- Height: 24.50 mm (0.96 inches)

Insert the hour meter into the cut-out and secure it using the provided mounting bracket. Screws for securing the bracket are not included and must be prepared separately.

PRODUCT MOUNTING

■ Panel cut-out size



■ Snap-in mounting

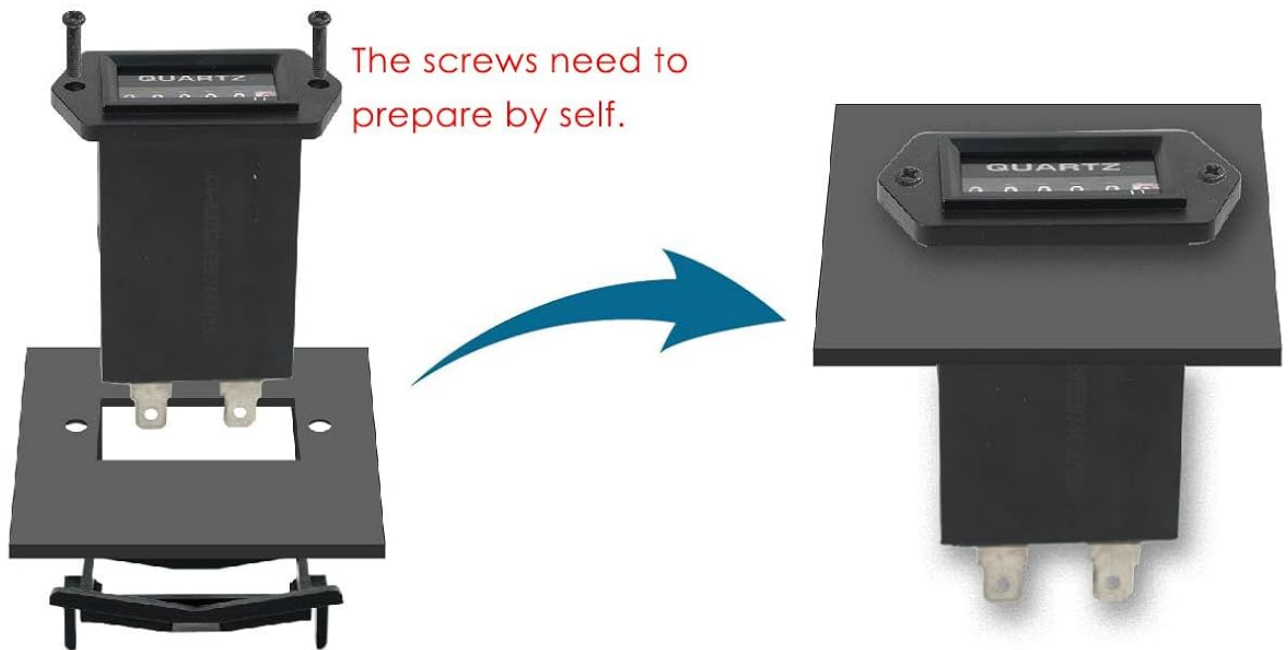


Image 3.1: Diagram illustrating the panel cut-out dimensions and snap-in mounting process.

3.2 Power Connection

Connect the hour meter to an external AC power source between 110V and 250V. The two pins on the meter are not polarity-sensitive, meaning positive and negative connections are interchangeable.

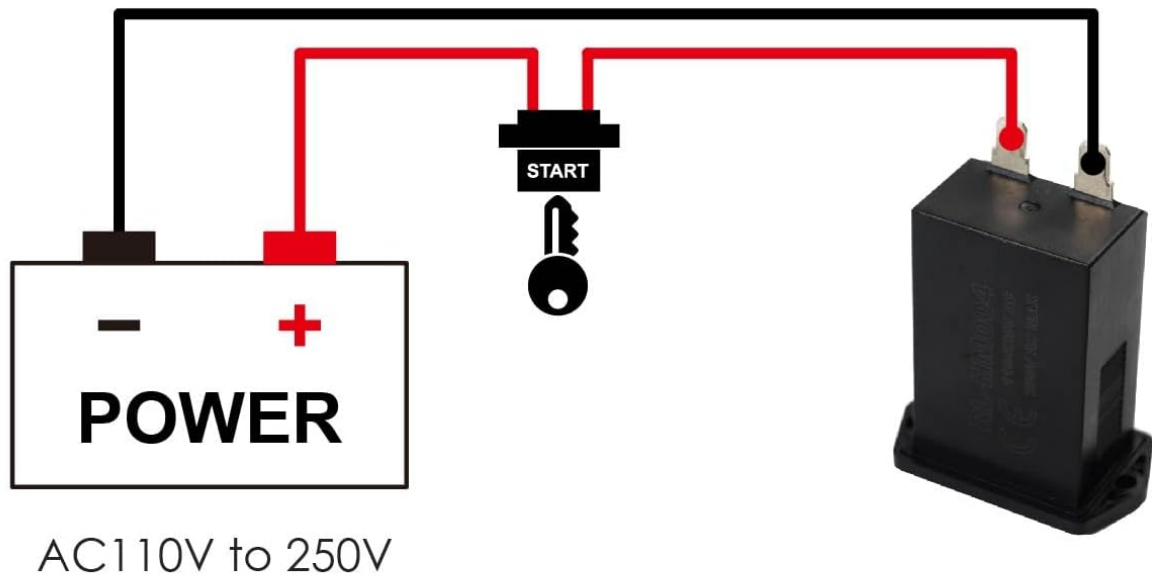
- **Direct Power Connection:** Connect the meter directly to the power source for continuous operation when power is supplied.
- **Switched Power Connection:** Integrate a switch (e.g., ignition switch) between the power source and the meter to activate it only when the equipment is running.

POWER CONNECTION

■ Direct power connection



■ Switch power connection



■ The power pins are not divided positive "+" and negative "-".

Image 3.2: Wiring diagrams for direct and switched power connections.

4. OPERATING INSTRUCTIONS

Once properly installed and connected to a power source, the Runleader Mechanical Hour Meter will automatically begin accumulating total operating hours whenever the connected equipment is active. The display shows hours up to 99,999.9. The hour reading is permanent and cannot be reset, ensuring a reliable record of equipment usage.

5. MAINTENANCE

The Runleader Mechanical Hour Meter is designed for durability and requires minimal maintenance. Its IP65 water resistance protects it from dust and water splashes. Periodically inspect the connections to ensure they remain secure. No

user-serviceable parts are inside the unit.

6. TROUBLESHOOTING

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

- **No Display/No Accumulation:** Verify that the power connections are secure and that the external power source (AC 110V-250V) is active and supplying power.
- **Incorrect Reading:** Ensure the meter is correctly installed and receiving consistent power when the equipment is in use. The meter is non-resettable, so previous readings are permanent.

For further assistance, please contact Runleader customer support.

7. SPECIFICATIONS

Specification	Detail
Brand	Runleader
Model Number	RL-HM004
Material	Acrylonitrile Butadiene Styrene (ABS)
Working Voltage	AC 110V to 250V
Hours Range	0 to 99,999.9 hours
Water Resistance	IP65
Item Dimensions (L x W x H)	2.13 x 2.1 x 1.26 inches (54 x 53.3 x 32 mm)
Panel Cut-out Size	37.50mm x 24.50mm (1.48 inches x 0.96 inch)
Item Weight	60 Grams (2.12 ounces)
UPC	791568716914

PRODUCT DIMENSION

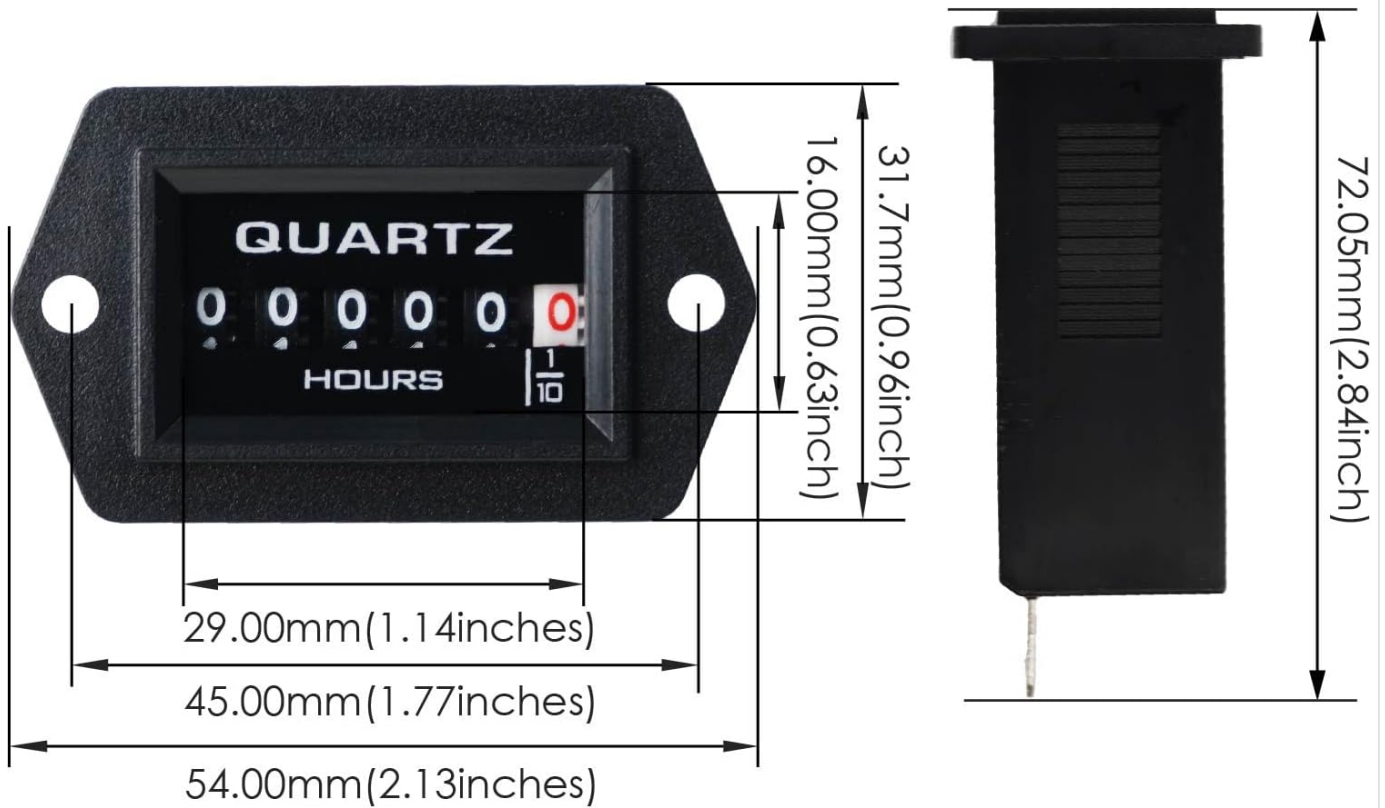


Image 7.1: Detailed product dimensions.

8. APPLICATION

The Runleader Mechanical Hour Meter is suitable for a wide range of AC 110V to 250V equipment where tracking total operating hours is essential for maintenance, service intervals, or performance monitoring. Typical applications include:

- Lawn mowers
- Golf carts
- Air compressors
- Generators
- Garden tractors
- RV equipment
- Leaf trimmers

APPLICATION

It is applicable to AC110V to 250V equipments, such as:

■ Lawn mower

■ Golf cart

■ Compressor

■ Leaf Trimmer



Image 8.1: Visual examples of equipment where the hour meter can be applied.

9. SAFETY WARNINGS

Please read and adhere to the following safety warnings:

- Keep the device away from fire.
- Keep the device out of reach of children or babies.

⚠️ WARNING

- Please keep it away from the fire.
- Please keep it out of reach of children or babies.

⚠️ WARNUNG

- Bitte halten Sie es vom Feuer fern.
- Bitte bewahren Sie es außerhalb der Reichweite von Kindern oder Babys auf.

⚠️ AVERTISSEMENT

- Veuillez le tenir à l'écart du feu.
- Veuillez le garder hors de portée des enfants ou des bébés.

⚠️ AVVERTIMENTO

- Si prega di tenerlo lontano dal fuoco.
- Si prega di tenerlo fuori dalla portata di bambini o neonati.

⚠️ ADVERTENCIA

- Por favor, manténgalo alejado del fuego.
- Manténgalo fuera del alcance de niños o bebés.

⚠️ WAARSCHUWING

- Houd het uit de buurt van het vuur.
- Houd het buiten het bereik van kinderen of baby's.

Image 9.1: Safety warnings in multiple languages.

10. WARRANTY AND SUPPORT

The Runleader Mechanical Hour Meter comes with a 2-year warranty. For technical support, warranty claims, or any questions regarding the product, please contact Runleader customer service through your purchase platform or the official Runleader website.

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Anonymous

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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

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