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› Runleader RL-HM008 DC 4.5-90V Hour Meter Instruction Manual

Runleader RL-HM008

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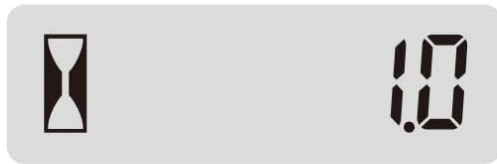
Model: RL-HM008

1. PRODUCT OVERVIEW

The Runleader RL-HM008 is a digital LCD hour meter designed to track the operating time of various equipment. It features a 6-digit, 7-segment LCD display and operates within a wide DC voltage range of 4.5V to 90V. This meter is suitable for applications such as generators, agricultural machinery, construction equipment, vehicles, and boats.

TOT HOURS

To track how many hours are the external equipment working.



Working Voltage: DC4.5V-90V.

The TOT hours will be restart from 0 when it working on another engine.

Image: Front view of the Runleader RL-HM008 Hour Meter, displaying "0.0 HOURS" and an hourglass icon.

2. KEY FEATURES

- **Hour Meter Function:** Displays total operating hours from 0 to 999,999 hours with 0.1-hour accuracy. A flashing hourglass icon indicates active time accumulation. Total hours can be reset.
- **Data Storage:** Equipped with non-volatile memory (EEPROM) to retain data for over 25 years, ensuring automatic data storage even when external power is off.
- **Wide Voltage Range:** Compatible with DC 4.5V to 90V power sources.
- **Easy Installation:** Designed for snap-in installation, fitting a standard panel cut-out of approximately 37.5mm x 24.5mm (1.5 x 1 inch).
- **Display Control:** Can be connected to a key-switch to turn the meter display on or off.
- **Silent Operation:** Features no moving parts, eliminating mechanical noise.
- **Durability:** CE and RoHS certified, with IP65 waterproof rating.

3. INSTALLATION

3.1 Panel Cut-out Dimensions

Before installation, ensure the mounting panel has a rectangular cut-out with the following approximate dimensions:

Width: 37.5 mm (1.5 inches)

Height: 24.5 mm (1 inch)

MOUNTING PANEL CUT-OUT

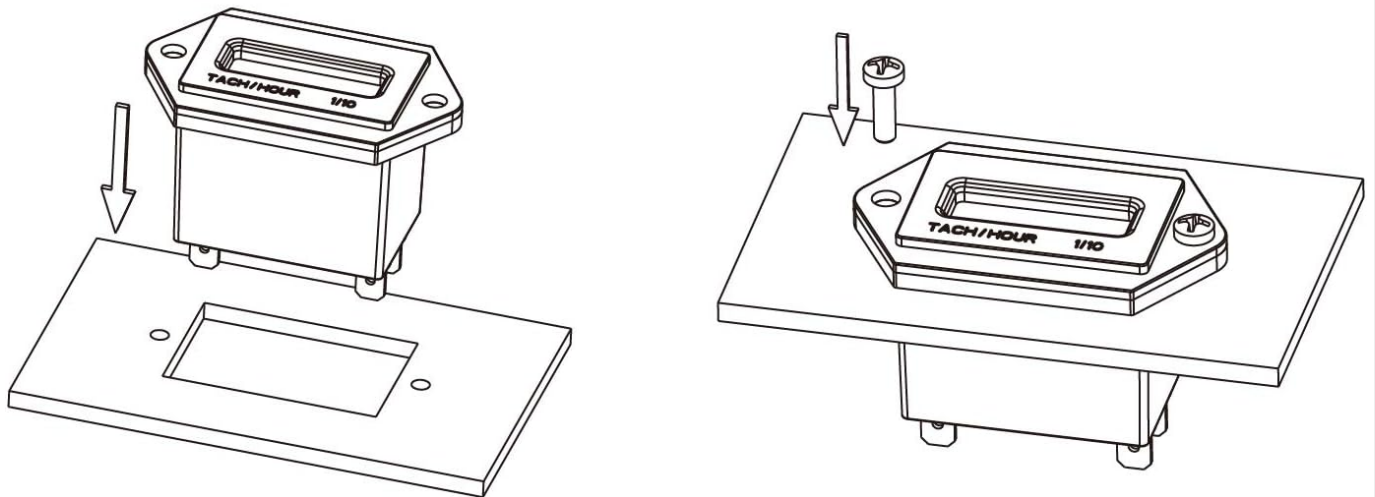
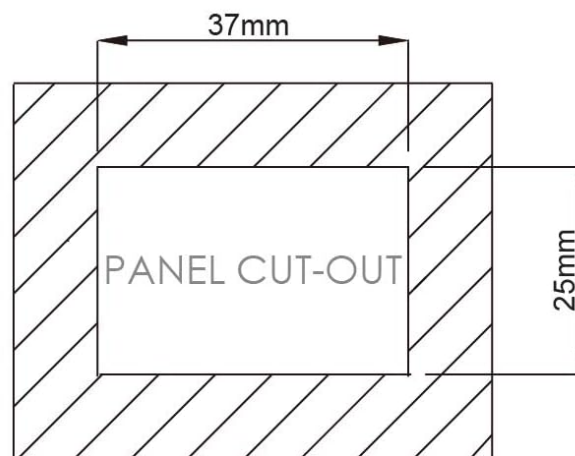


Image: Diagram illustrating the panel cut-out dimensions (37mm x 25mm) and a visual guide for snap-in installation.

3.2 Wiring Instructions

The RL-HM008 hour meter has three terminals: positive (+), negative (-), and a reset terminal (C). Follow the diagram below for proper connection.

1. Connect the **positive (+)** terminal of the hour meter to the positive terminal of your DC power source (4.5V-90V).
2. Connect the **negative (-)** terminal of the hour meter to the negative terminal (ground) of your DC power source.
3. The **'C' terminal** is for resetting the total hours. Connecting this terminal to the positive power source will reset the

accumulated hours. Use this function carefully. For normal operation, the 'C' terminal can be left unconnected unless a reset function is desired.

4. For display control, you can integrate a key-switch between the power source and the meter's positive terminal to turn the display on or off.

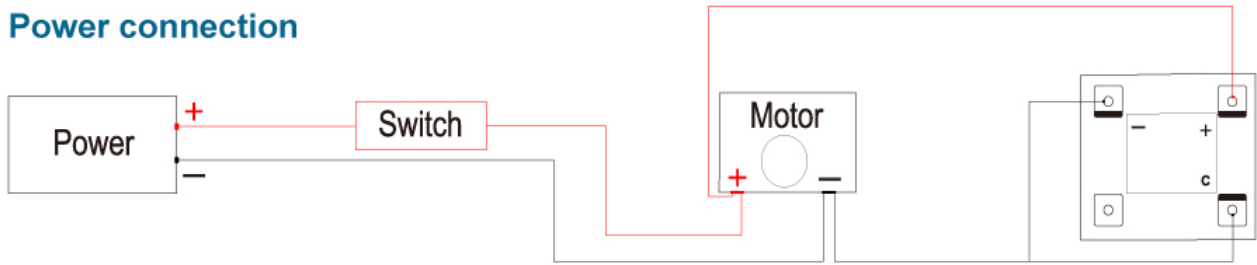
WATERPROOF

IP65 
Waterproof



Image: Wiring diagram illustrating how to connect the hour meter to a power source, an optional switch, and a motor. The diagram shows positive, negative, and 'C' terminals.

Power connection



Snap-in installation

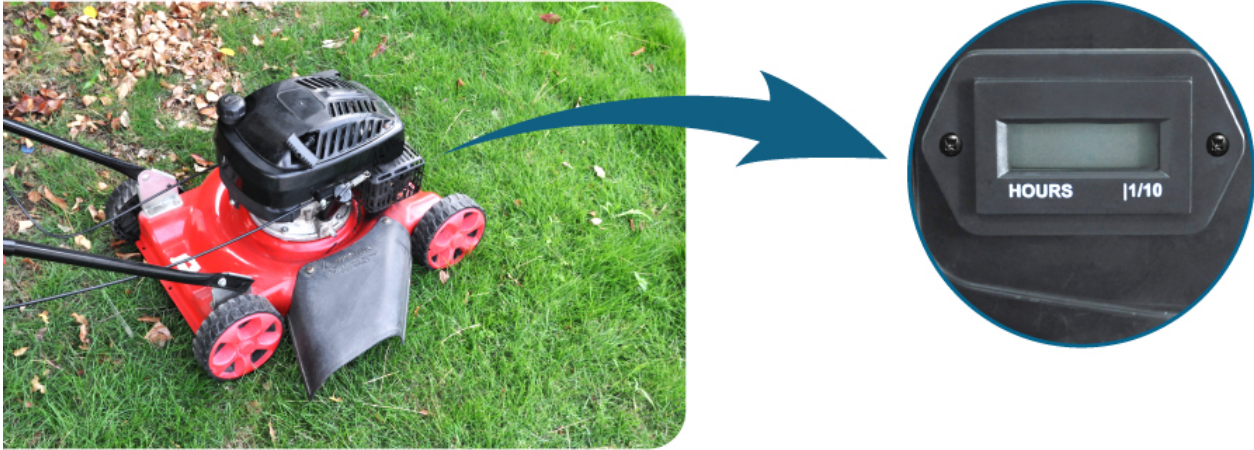


Image: Visual guide demonstrating the power connection and the snap-in installation process of the hour meter into a panel, shown with a lawn mower as an example.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

The hour meter activates when connected to a DC power source within its specified voltage range (4.5V-90V). If a key-switch is integrated into the wiring, use the switch to control the display's power state.

4.2 Reading Total Hours

The LCD displays the total accumulated operating hours. The display ranges from 0 to 999,999 hours. The last digit represents tenths of an hour (e.g., 1.0 indicates 1 hour, 0.1 indicates 6 minutes). A flashing hourglass icon on the display indicates that the meter is actively accumulating time.

4.3 Resetting Total Hours

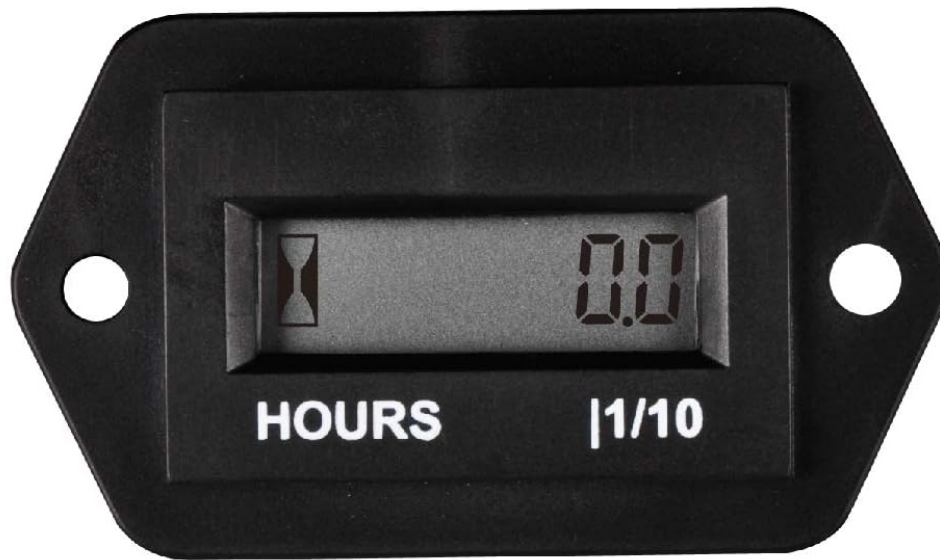
The total accumulated hours can be reset. To perform a reset, connect the 'C' terminal to the positive power source. **Caution:** Resetting the hour meter will permanently erase all accumulated data. Ensure this action is intended before proceeding.

5. MAINTENANCE

The Runleader RL-HM008 hour meter is designed for minimal maintenance. Its non-volatile memory ensures data retention without battery replacement for over 25 years.

- **Cleaning:** Wipe the display and casing with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the unit.
- **Environmental Protection:** The meter is IP65 waterproof, protecting against dust and low-pressure water jets. However, avoid prolonged submersion or high-pressure washing directly on the unit.

PRODUCT ACCESSORIES



Product*1



Screw*2, Nut*2, Washer*2



Insert spring*2



Spring sheath*2

Image: The hour meter covered in water droplets, illustrating its IP65 waterproof capability.

6. TROUBLESHOOTING

• Display Not Working:

- Check power connections to ensure they are secure and correctly wired to the positive (+) and negative (-) terminals.
- Verify that the power source voltage is within the specified range of DC 4.5V-90V.
- If a key-switch is used, ensure it is in the "on" position.

• Hours Not Accumulating:

- Ensure the meter is receiving continuous power when the equipment is operating.
- Check for a flashing hourglass icon on the display; if it's not flashing, the meter is not recording time.

• Inaccurate Readings:

- Confirm the power supply is stable and within the specified voltage range.
- Ensure the meter is securely mounted and not subject to excessive vibration that could interfere with internal

components (though it's designed for silent operation).

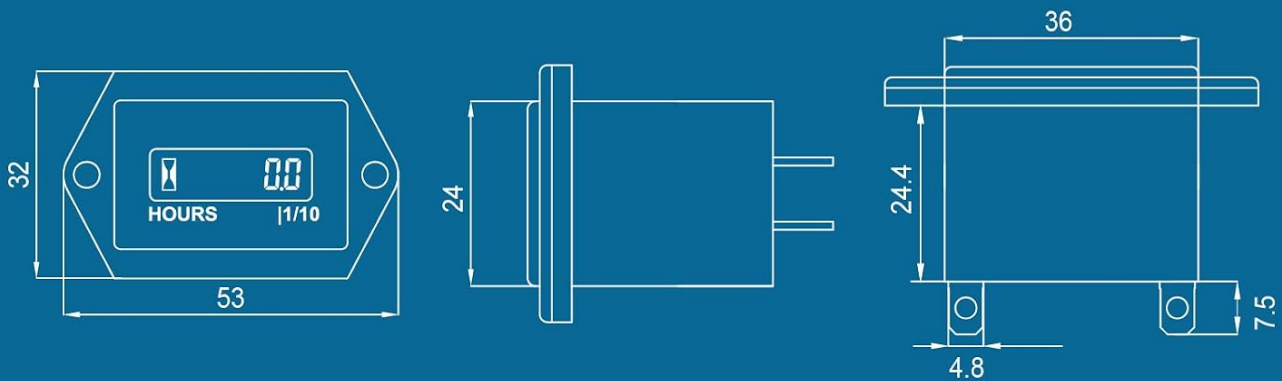
- **Accidental Reset:**

- If the 'C' terminal was accidentally connected to positive power, the hours will be reset. This action is irreversible.

7. SPECIFICATIONS

Feature	Specification
Model Number	RL-HM008
Brand	Runleader
Operating Voltage	DC 4.5V - 90V
Display Range	0 - 999,999 Hours
Accuracy	0.1 Hour
Data Retention	25+ years (EEPROM)
Panel Cut-out Size	Approx. 37.5 x 24.5 mm (1.5 x 1 inch)
Product Dimensions (L x W x H)	2.68 x 1.3 x 0.55 inches (68 x 33 x 14 mm)
Item Weight	18 Grams (0.635 ounces)
Material	Acrylonitrile Butadiene Styrene (ABS)
Waterproof Rating	IP65
Certifications	CE, RoHS

PRODUCT DIMENSION



Unit: mm



SCOPE OF APPLICATION



Floor sweeper



Electric mobile



Forklift



Golf cart



Image: Product accessories including mounting hardware.



TOT



IP65

Image: Certifications and key features: CE, RoHS, Total Hours tracking, and IP65 waterproof rating.

8. WARRANTY AND SUPPORT

The Runleader RL-HM008 Hour Meter comes with a **2-year warranty** from the date of purchase, covering manufacturing defects.

For technical support, warranty claims, or general inquiries, please contact Runleader customer service. You can find more information and contact details on the official Runleader store page:[Runleader Store](#).

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