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> Runleader Digital Hour Meter (Model RL-HM057AD-H) Instruction Manual

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Runleader Digital Hour Meter (Model RL-HM057AD-H) Instruction Manual

Brand: Runleader | Model: RL-HM057AD-H

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Runleader Digital Hour Meter, Model RL-HM057AD-H. This device is designed to accurately track the total operating hours of equipment and provide maintenance reminders, ensuring timely service and optimal performance.



2. PRODUCT FEATURES

- **Hour Meter Function:** Accumulates total working hours when the machine is operational. Total hours range from 0 to 99,999 hours.
- **Maintenance Reminder:** Provides a reminder for regular maintenance tasks, typically set for every 50 hours.
- **Wide Voltage Application:** Compatible with DC 5V to 60V systems.
- **Water Resistance:** Constructed with 100% epoxy resin craft, offering strong water resistance up to IP68 standards, allowing normal operation in up to 10 meters underwater.
- **Automatic Data Storage:** Working data is saved automatically by an internal CMOS EEPROM system when power is off.

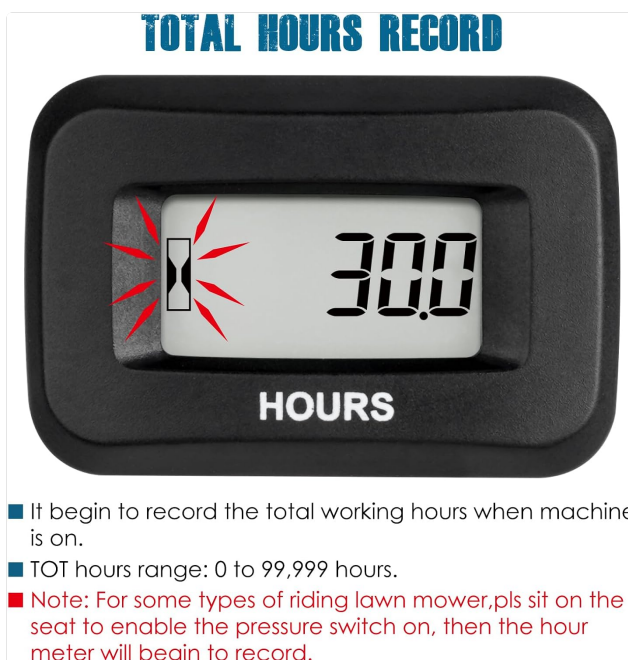


Figure 2: Total hours recording display. The hourglass icon flashes during operation.

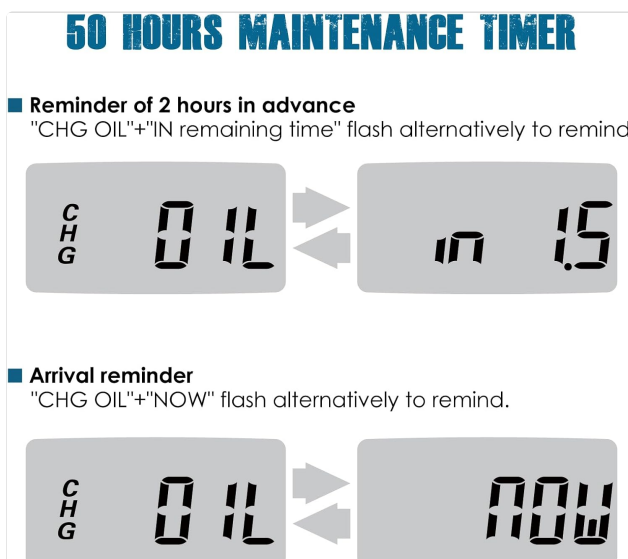


Figure 3: Maintenance timer display, showing 'CHG OIL' and

'IN' or 'NOW' reminders.

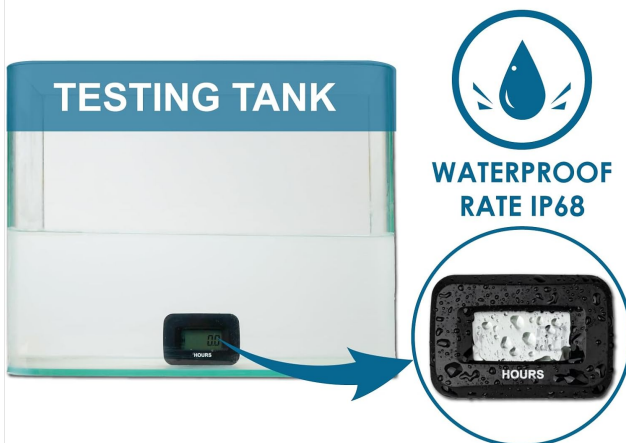
AUTOMATIC DATA STORAGE



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

Figure 4: Illustration of the automatic data storage feature using EEPROM.

STRONG WATER RESISTANCE



- It made by 100% epoxy resin craft which have strong water resistance.

Figure 5: Water resistance testing, highlighting the IP68 waterproof rating.

3. SAFETY INFORMATION

WARNING: INGESTION HAZARD

This product contains a button cell or coin battery. Serious injury can occur if ingested. A swallowed button cell or coin battery can cause internal chemical burns in as little as 2 hours. Keep new and used batteries OUT OF REACH OF CHILDREN. Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.

⚠ WARNING • INGESTION HAZARD: This product contains a button cell or coin battery. • DEATH or serious injury can occur if ingested. • A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. • KEEP new and used batteries OUT OF REACH of CHILDREN. • Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	
⚠ WARNING • VERSCHLUCKUNGSGEFAHR: Dieses Produkt enthält eine Knopfzelle oder Knopf-Batterie. • TOD oder schwere Verletzungen können bei Verschlucken auftreten. • Eine verschluckte Knopfzelle oder Knopf-Batterie kann in nur 2 Stunden innere Verätzungen verursachen. • BEWAHREN Sie neue und gebrauchte Batterien AUSSERHALB DER REICHWEITE von KINDER. • Suchen Sie sofort einen Arzt auf, wenn der Verdacht besteht, dass eine Batterie verschluckt oder in einen Körperteil eingeführt wurde.	
⚠ AVERTISSEMENT • RISQUE D'INGESTION: Ce produit contient une pile bouton ou une pile bouton. • La MORT ou des blessures graves peuvent survenir en cas d'ingestion. • Une pile bouton ou une pile bouton avalée peut provoquer des brûlures chimiques internes en aussi peu que 2 heures. • GARDEZ les piles neuves et usagées HORS DE PORTÉE des ENFAN. • Consultez immédiatement un médecin si vous soupçonnez qu'une batterie a été avalée ou insérée dans une partie du corps.	
⚠ AVVERTIMENTO • PERICOLO DI INGESTIONE: Questo prodotto contiene una pila a bottone o una batteria a bottone. • MORTE o lesioni gravi possono verificarsi se ingerito. • Una pila a bottone o una batteria a bottone ingerita possono causare ustioni chimiche interne in appena 2 ore. • TENERE le batterie nuove e usate FUORI PORTATA di BAMBINI. • Consultare immediatamente un medico se si sospetta che una batteria sia stata ingerita o inserita in qualsiasi parte del corpo.	
⚠ ADVERTENCIA • PELIGRO DE INGESTIÓN: Este producto contiene una pila de botón o una pila de botón. • La MUERTE o lesiones graves pueden ocurrir si se ingiere. • Una pila de botón o una pila de botón tragada puede causar quemaduras químicas internas en tan solo 2 horas. • MANTENGA las pilas nuevas y usadas FUERA DEL ALCANCE de los NIÑOS. • Busque atención médica inmediata si un Se sospecha que la batería se ingiere o se inserta en cualquier parte del cuerpo.	
⚠ WAARSCHUWING • GEVAAR VOOR INSLIKKEN: Dit product bevat een knoopcel- of knoopcelbatterij. • DOOD of ernstig letsel kan optreden bij inslikken. • Een geslikt knoopcel of knoopcelbatterij kan in slechts 2 uur interne chemische brandwonden veroorzaken. • HOUD nieuwe en gebruikte batterijen BUITEN BEREIK van KINDEREN. • Zoek onmiddellijk medische hulp als het vermoeden bestaat dat een batterij is geslikt of in een deel van het lichaam is geplaatst.	

Figure 6: Multi-language warning regarding button cell battery ingestion hazard.

4. SETUP AND INSTALLATION

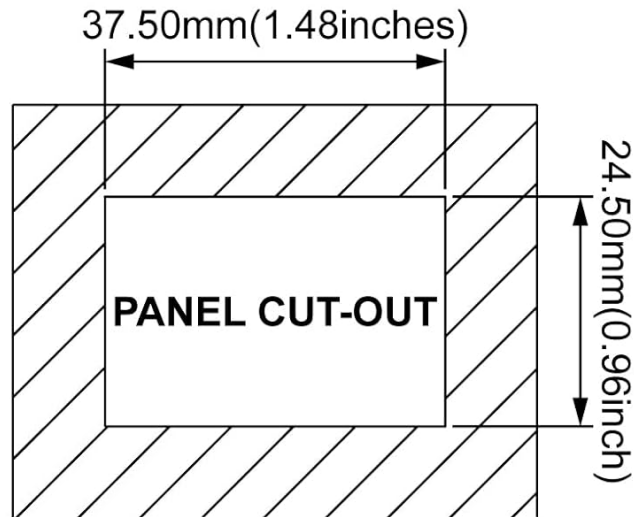
Carefully follow these instructions to ensure proper installation and operation of your hour meter.

4.1. Panel Cut-out and Mounting

1. Drill a mounting hole in the desired location. The recommended panel cut-out size is 37.50mm (1.48 inches) by 24.50mm (0.96 inches).
2. Insert the hour meter into the prepared hole. The meter is designed for snap-in mounting.

PRODUCT MOUNTING

■ Panel cut-out size



■ Snap-in mounting

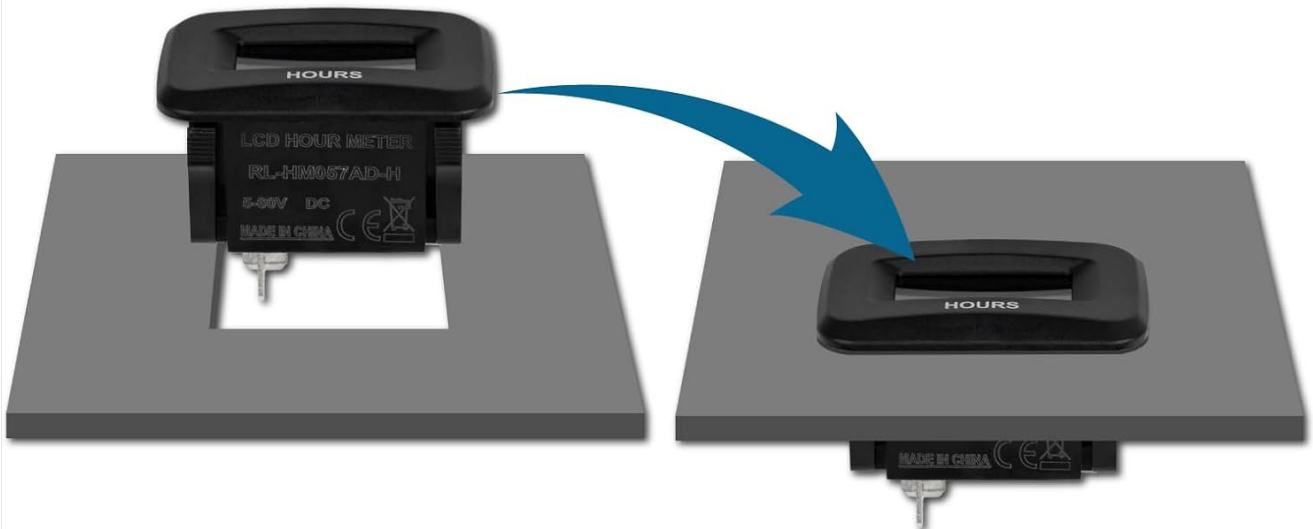


Figure 7: Panel cut-out dimensions and visual guide for snap-in mounting.

4.2. Power Connection

This product requires a DC power supply. Distinguish between positive and negative terminals. Do not connect to AC power supply. The operating voltage is 5-60V DC.

- Connect the red wire to the positive (+) terminal of your DC power source.
- Connect the black wire to the negative (-) terminal of your DC power source.

The hour meter will begin timing when the positive and negative poles are correctly connected and power is supplied.

POWER CONNECTION

■ Direct power connection



■ Switch power connection

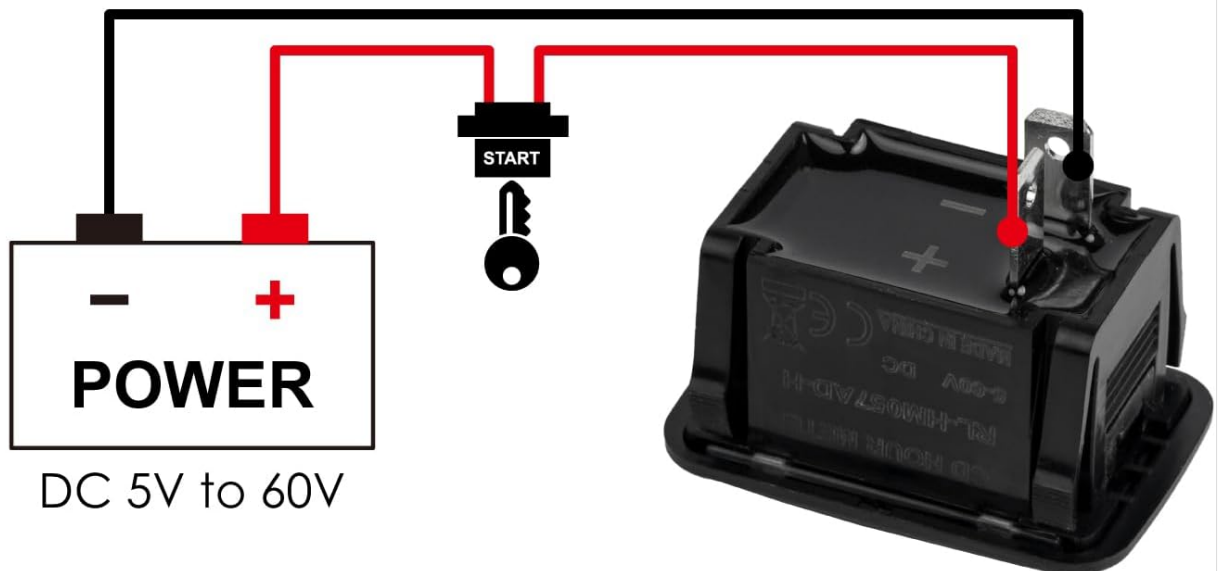


Figure 8: Wiring diagrams for direct power connection and connection via an ignition switch.

5. OPERATING INSTRUCTIONS

5.1. Timing Function

The hour meter automatically begins to record total working hours when the machine is powered on and the meter receives voltage within its specified range (DC 5V to 60V). The hourglass icon on the display will flash to indicate active timing. The total hours range from 0 to 99,999 hours. The display resolution is 0.1H for 0-9999.9H and 1H for 10000-99999H. The total hours cannot be reset to zero; after reaching 99,999 hours, it will restart recording from 0.

Note: For some riding lawn mowers, the hour meter may only record when the operator is seated, enabling a pressure switch.

5.2. Automatic Data Storage

The hour meter is equipped with an internal CMOS EEPROM system that automatically saves all accumulated working data. This ensures that recorded hours are retained even when the power supply to the meter is disconnected.

6. MAINTENANCE

6.1. Maintenance Reminder

The product features a maintenance timer, defaulted to 50 hours. This reminder helps users perform regular service tasks. The reminder sequence is as follows:

- **Advance Reminder:** Approximately 2 hours before the 50-hour interval is reached, the display will flash "CHG OIL" and "IN" with the remaining time (e.g., "IN 1.5") alternatively.
- **Arrival Reminder:** Once the 50-hour interval is reached, the display will flash "CHG OIL" and "NOW" alternatively.

These interfaces will display for 10 seconds, three times, to remind the user of the impending or due maintenance.

7. SPECIFICATIONS

Item	Parameter / Description
Housing Case Material	Acrylonitrile Butadiene Styrene (ABS)
Waterproof Rate	IP68
Display Mode	LCD
Hours Range	0-99999H
Display Window Size (Visible)	24.5mm x 12.5mm
Product Weight	32 Grams (1.13 ounces)
Product Dimensions (L x W x H)	46mm x 31mm x 36.7mm (1.73 x 1.46 x 1.18 inches)
Working Voltage	DC 5-60V
Manufacturer Part Number	RL-HM057AD-H
UPC	791328973700
Batteries	1 Lithium Metal battery (included)

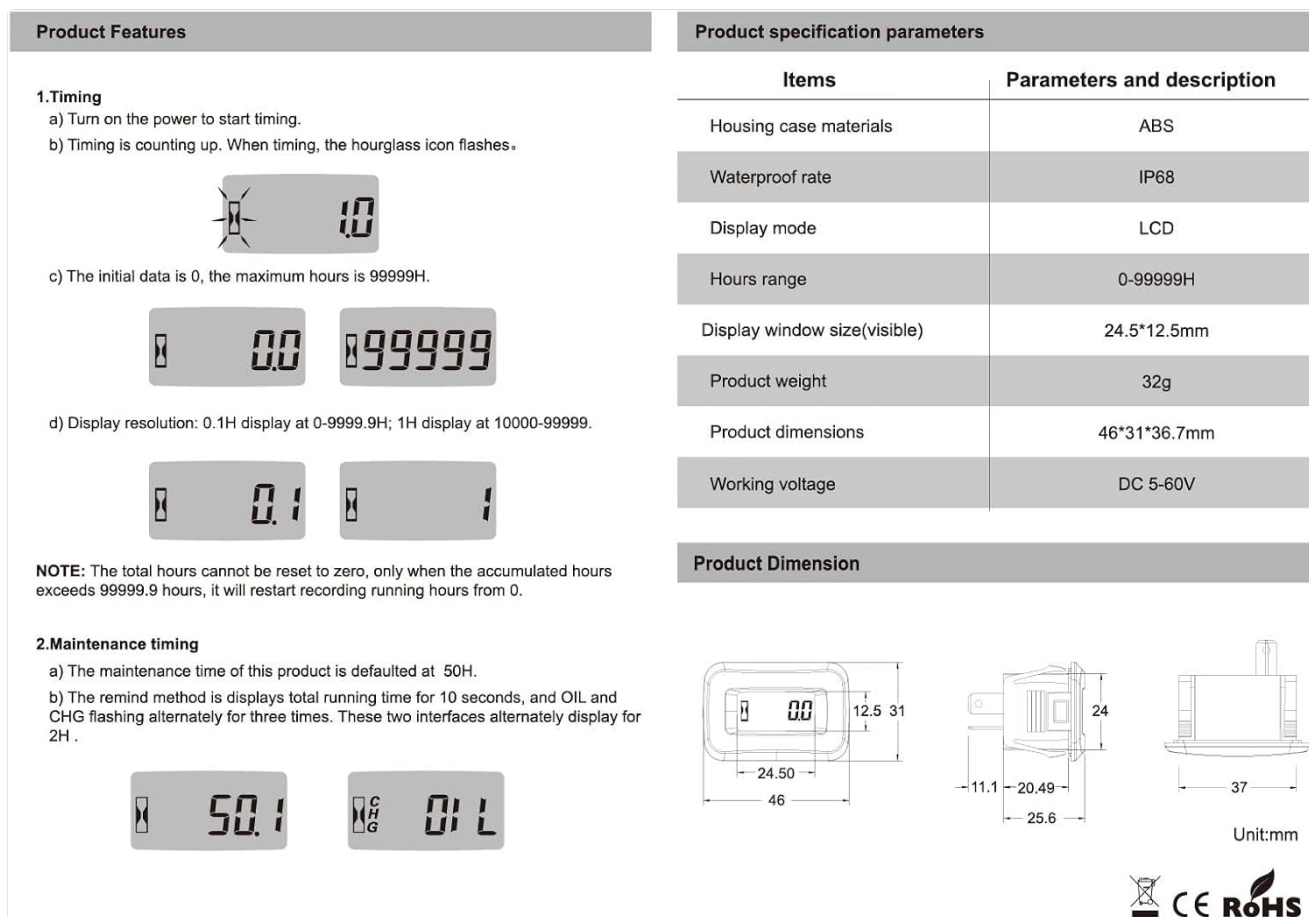


Figure 9: Detailed product specifications and dimensional drawing.

8. TROUBLESHOOTING

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

• Meter Not Displaying or Timing:

- Verify that the positive and negative power connections are correctly made and secure.
- Ensure the DC voltage supplied is within the 5V to 60V operating range.
- For certain equipment, such as riding lawn mowers, ensure all safety switches (e.g., seat pressure switch) are engaged for the meter to receive power and begin recording.

• Incorrect Hour Readings:

- The meter records hours whenever it receives power. Ensure the power source is only active when the machine is intended to be running to avoid accumulating false hours.

• Unit Malfunction or Damage:

- If the unit exhibits unexpected behavior, such as overheating or smoke, immediately disconnect power. This may indicate an incorrect installation, incompatible voltage, or a defective unit. Ensure the correct voltage is applied and connections are secure.
- Do not attempt to disassemble or repair the product yourself.

9. WARRANTY AND SUPPORT

The Runleader Digital Hour Meter comes with reliable after-sales service and technical support for 2 years from the date of purchase. For any technical assistance, warranty claims, or further inquiries, please contact Runleader customer support through your purchase channel or the official Runleader website.

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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.

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