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› Runleader Digital LCD Hour Meter RL-HM063AD-1 User Manual

Runleader RL-HM063AD-1

Runleader Digital LCD Hour Meter

Model: RL-HM063AD-1

Brand: Runleader

1. INTRODUCTION

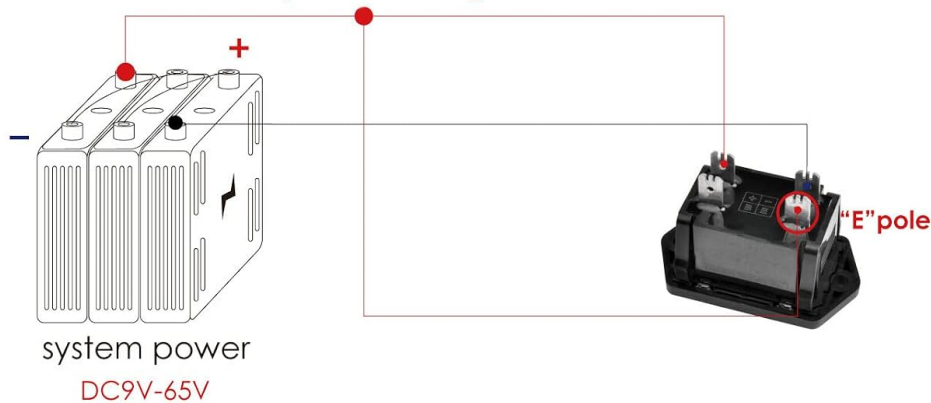
The Runleader Digital LCD Hour Meter is designed to track the total operating hours of DC-powered equipment. It is suitable for a wide range of applications, providing accurate hour readings to assist with maintenance scheduling.

This device features a clear LCD display with a backlight, robust water and shock resistance, and automatic data storage.

LCD HOUR METER GAUGE



- Connect the "+" and "E" poles to starting the hours track .



- It help you to track the total running hours of machine when power is on. Hours range:0 to 99,999 hours.

Image: The Runleader Digital LCD Hour Meter displaying accumulated hours.

2. PRODUCT FEATURES

- **DC Power Compatibility:** Operates with DC 9V to 65V power sources.
- **Hour Tracking:** Accumulates total operating hours up to 999.99 hours.
- **Backlight Display:** Features a blue backlight for visibility in low-light conditions.
- **Water and Shock Resistance:** Sealed with 100% epoxy resin for IP68 water resistance and an ABS/PC shell for shock protection.
- **Automatic Data Storage:** Built-in FLASH memory saves working data even when power is off.
- **Easy Installation:** Designed for panel cut-out and snap-in mounting.

3. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- Runleader Digital LCD Hour Meter (1 unit)
- Insert Spring 6.3 (4 pieces)
- Spring Sheath 6.3 (4 pieces)
- Screws (2 pieces)
- Nuts (2 pieces)
- User Manual (1 copy)
- Packaging Box (1 unit)

PRODUCT ACCESSORIES



Box*1



User manual*1



Insert spring*4



Screw*2



Nuts*2



Plug spring sheath*4

Image: The hour meter with its accessories, including springs, screws, nuts, and the user manual.

4. SPECIFICATIONS

Specification	Value
Model Number	RL-HM063AD-1
Operating Voltage	DC 9V to 65V

Hour Range	0 to 999.99 hours
Measurement Precision	0.01 hours
Waterproof Rate	IP68
Material	Polycarbonate (PC) shell, ABS casing
Panel Cut-out Size	37.5 x 24.5 mm (1.5 x 1 inches)
Weight	50 Grams
Data Storage	Built-in FLASH for automatic data saving

PRODUCT DIMENSION



Image: Detailed product dimensions for installation planning.

5. INSTALLATION

Follow these steps for proper installation of your hour meter:

5.1 Panel Cut-out and Mounting

1. Prepare a panel cut-out with dimensions of 37.5 mm (1.5 inches) by 24.5 mm (1 inch).
2. Insert the hour meter into the prepared opening.
3. Secure the meter using the snap-in mounting mechanism and the provided screws and nuts.

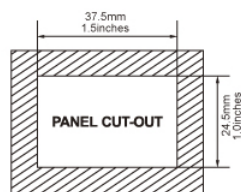
5.2 Power Connection

The hour meter requires a DC power supply between 9V and 65V. There are two primary connection methods:

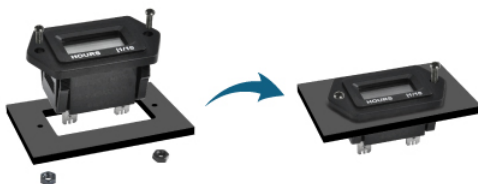
- **Direct Power Connection:** Connect the positive (+) and negative (-) poles of your DC power source directly to the corresponding terminals on the hour meter. The meter will begin accumulating hours when power is applied.
- **Power Switch Connection:** For applications where you want to control when the meter tracks hours, connect the positive (+) pole of your power source to a switch, then from the switch to the 'E' terminal on the meter. Connect the negative (-) pole directly to the meter's negative terminal. The meter will track hours only when the switch is closed.
- **Backlight Connection:** To activate the blue backlight, connect the positive (+) pole of your power source to the 'B' terminal on the meter.

1. Installation method

- Panel cut-out size

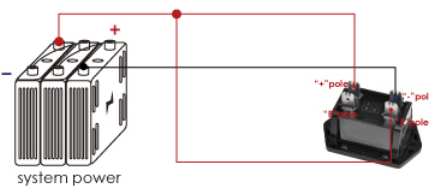


- Snap-in mounting



2. Power connection

- Direct power connection



- Power switch connection

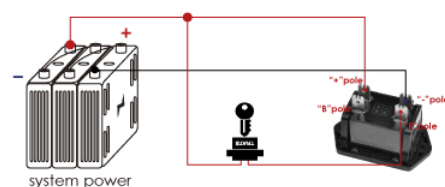


Image: Comprehensive diagram illustrating installation methods and power connection options.

6. OPERATION

The Runleader Digital LCD Hour Meter is designed for straightforward operation:

- **Hour Accumulation:** Once correctly wired and powered, the meter will automatically begin accumulating total operating hours. The display shows hours in a format like "200.0" for 200.0 hours.
- **Backlight Function:** If the 'B' terminal is connected to the positive power source, the blue backlight will remain illuminated, enhancing visibility in dark environments.
- **Data Retention:** The meter features built-in FLASH memory, ensuring that accumulated

operating hours are saved automatically even if power is interrupted. You can check the total hours at any time when power is restored.

FAVORABLE WATER RESISTANCE



- It sealed with 100% epoxy resin craft for favorable water resistance.

Image: The hour meter display indicating automatic data storage, allowing data retrieval after power cycles.

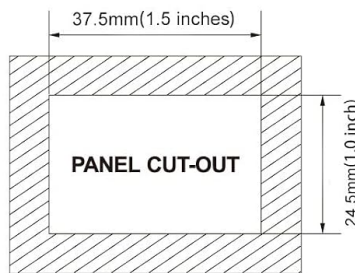
7. MAINTENANCE

The Runleader Digital LCD Hour Meter is designed for durability and requires minimal maintenance:

- **Cleaning:** Wipe the display and casing with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Water Resistance:** The meter is IP68 rated, meaning it is protected against dust ingress and prolonged immersion in water up to a specified pressure. However, avoid unnecessary exposure to harsh chemicals or high-pressure water jets to prolong its lifespan.
- **Environmental Conditions:** Ensure the meter operates within its specified temperature and humidity ranges to maintain optimal performance.

PANEL CUT-OUT MOUNTING

■ Panel cut-out size



■ Snap-in mounting

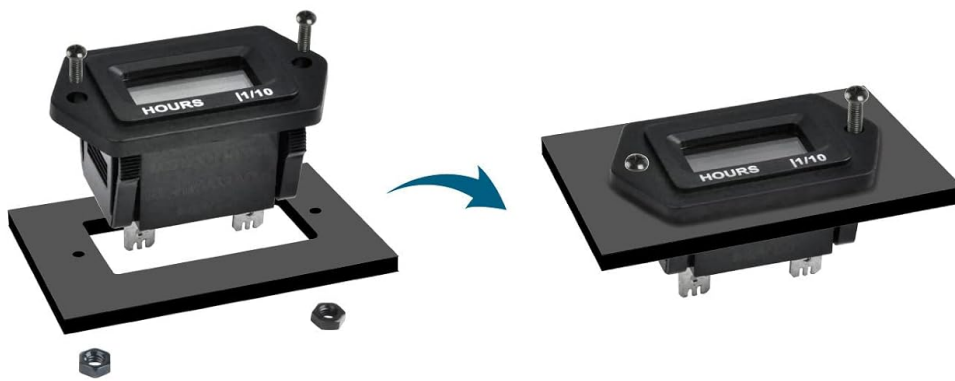


Image: The hour meter undergoing water resistance testing, highlighting its IP68 rating.

8. TROUBLESHOOTING

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

• No Display/No Power:

- Check all power connections to ensure they are secure and correctly wired (positive to positive, negative to negative).
- Verify that the DC power supply voltage is within the specified range of 9V to 65V.
- Inspect for any damaged wires or loose terminals.

• Backlight Not Working:

- Ensure the 'B' terminal is correctly connected to the positive power source.
- Confirm the power supply is active.

• Hours Not Accumulating:

- Check that the 'E' terminal (if used for switched operation) is properly connected and receiving power when the equipment is running.
- For direct connection, ensure the main positive terminal is correctly wired.

If problems persist after checking these points, please contact Runleader customer support for further assistance.

9. APPLICATIONS

The Runleader Digital LCD Hour Meter is suitable for a variety of DC 9V to 65V powered equipment, including but not limited to:

- Lawn Mowers
- Boats
- Tractors
- Motorhomes
- Snowmobiles
- Go-karts
- Forklifts
- Electric Cars
- Scrubber Machines

APPLICATION

It is applicable to DC 9V to 65V equipment
Such as:

- Lawn mower
- Boat
- Tractor
- Motorhome
- Snowmobile
- Scrubber machine etc.



Image: Visual representation of common equipment types where the hour meter can be applied.

10. WARRANTY AND SUPPORT

Runleader provides reliable technical support and after-sales service for this product. A 2-year warranty is typically offered from the date of purchase.

For technical assistance, warranty claims, or any questions regarding your hour meter, please refer to the contact information provided in your product packaging or visit the official Runleader website.

Manufacturer: Ningbo Jiangbei Run Leader Electronics Co., Ltd