

[Manuals.plus](#) /

› [Runleader](#) /

› Runleader Digital LCD Hour Meter Instruction Manual

Runleader RL-HM010

Runleader Digital LCD Hour Meter Instruction Manual

Model: RL-HM010

1. PRODUCT OVERVIEW

The Runleader RL-HM010 is a digital LCD hour meter designed to accurately track the total operating hours of various equipment. It features a 6-digit, 7-segment LCD display and is suitable for a wide range of applications, including ZTR lawn mowers, tractors, generators, golf carts, and other powered equipment. Its compact design and easy installation make it a versatile tool for monitoring equipment usage.



Figure 1.1: Front view of the Runleader Digital LCD Hour Meter, showing the display and mounting holes.

2. KEY FEATURES

- **Hour Meter Function:** Displays total operating hours from 0 to 999,999 H. The total hours can be reset.
- **Data Storage:** Automatic data storage ensures historical tracking hours are retained even when external power is off.
- **Easy Installation:** Snap-in design fits standard panel cut-outs (Approx 37.5×24.5mm).
- **Display Control:** Connect a key-switch to turn the meter display on or off.
- **Silent Operation:** Operates without annoying gear and motor noise.
- **Wide Voltage Range:** Applicable voltage: DC 4.5V to 90V or AC 86 to 230V.
- **Durability:** CE ROHS certification, IP65 waterproof rating.

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.

Figure 2.1: The hour meter displaying total hours. The working voltage range is DC 4.5V-90V. Total hours can be reset to zero when working on another engine.

DATA STORAGE

Historic tracking hours will be retained when external equipment shut off.



Figure 2.2: The hour meter's data storage feature, which retains historical tracking hours even after external equipment is shut off.

3. SPECIFICATIONS

Specification	Value
Brand	Runleader
Model Number	RL-HM010
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Dimensions (L x W x H)	2.09 x 1.26 x 0.98 inches (53 x 32 x 25 mm)

Specification	Value
Panel Cutout Size	Approx 37.5×24.5mm (1.5×1 Inch)
Item Weight	25 Grams (0.882 ounces)
Display	6-digit, 7-segment LCD
Hour Range	0 to 999,999 H
Voltage Range	DC 4.5V to 90V or AC 86 to 230V
Certifications	CE, ROHS
Waterproof Rating	IP65
UPC	713095428153

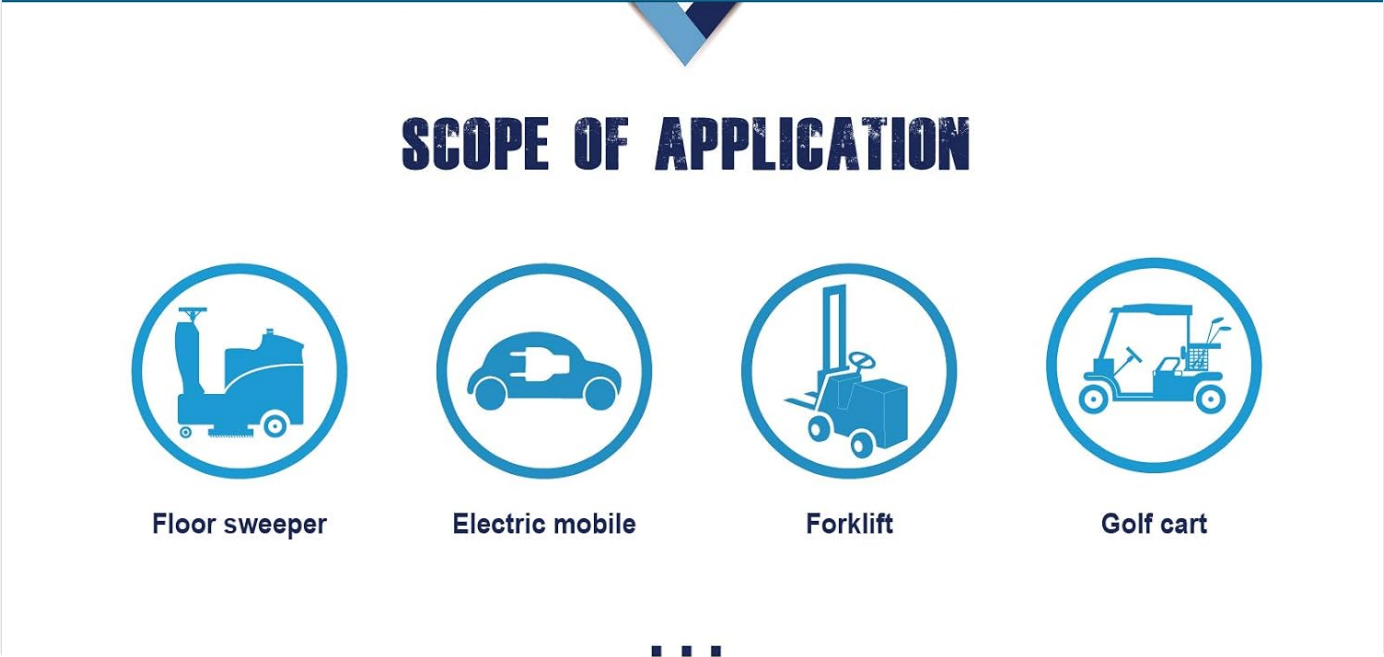
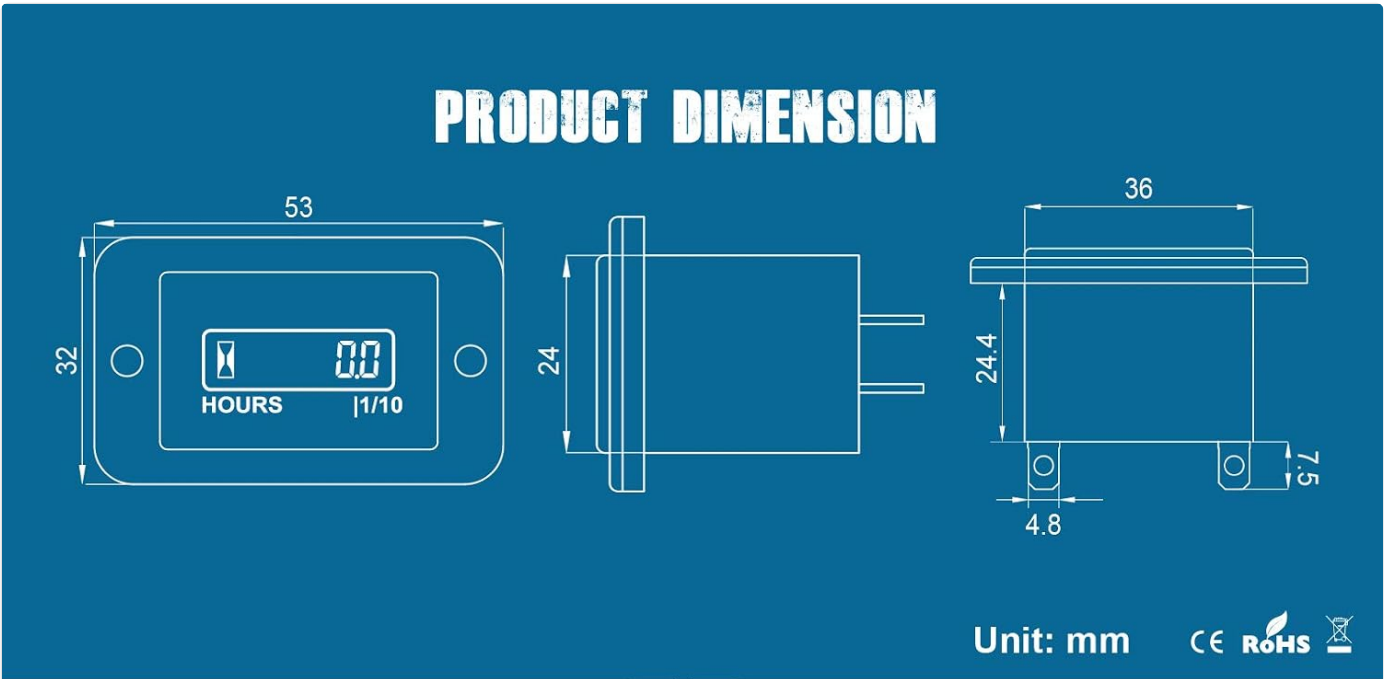


Figure 3.1: Detailed product dimensions in millimeters, showing front, side, and top views.

4. PRODUCT ACCESSORIES

The following accessories are typically included with your Runleader Digital LCD Hour Meter:

- Runleader Hour Meter (Product*1)
- Screws (Screw*2)
- Nuts (Nut*2)
- Washers (Washer*2)
- Insert Springs (Insert spring*3)
- Spring Sheaths (Spring sheath*3)

PRODUCT ACCESSORIES



Product*1



Screw*2, Nut*2, Washer*2



Insert spring*3



Spring sheath*3

Figure 4.1: Image showing the hour meter along with included screws, nuts, washers, insert springs, and spring sheaths.

5. INSTALLATION

5.1 Mounting the Hour Meter

The Runleader hour meter features a snap-in design for easy panel mounting. Ensure you have a panel cut-out of approximately 37.5mm x 24.5mm (1.5 x 1 inch) for proper fit.

MOUNTING PANEL CUT-OUT

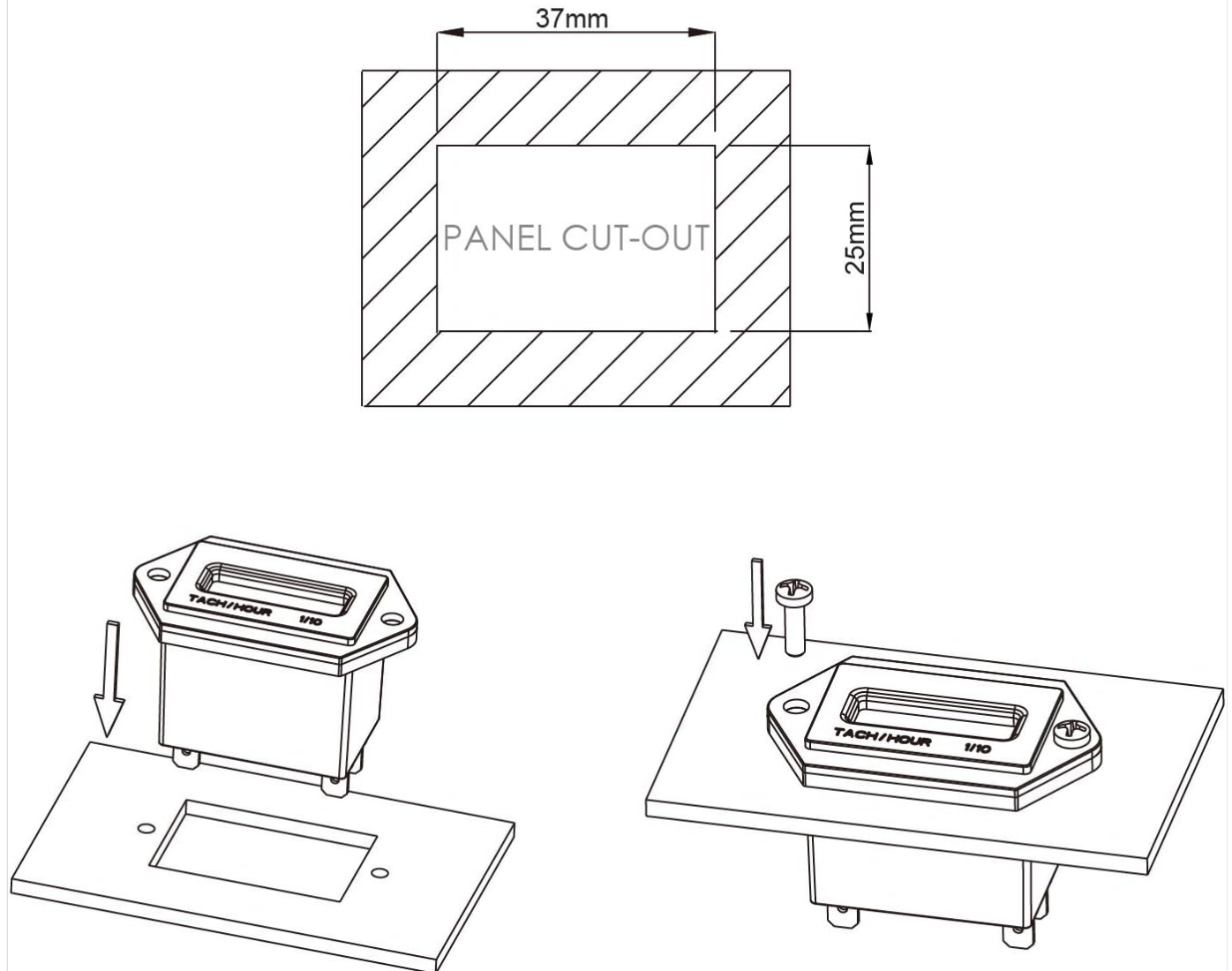


Figure 5.1: Diagram illustrating the required panel cut-out dimensions (37mm x 25mm) and the snap-in installation process for the hour meter.

5.2 Wiring Connection

Connect the hour meter to your equipment's power source and the device you wish to monitor. The meter supports both DC 4.5V-90V and AC 86-230V inputs. A key-switch can be integrated to control the meter's display.

CONNECT WITH EXTERNAL POWER DEVICE

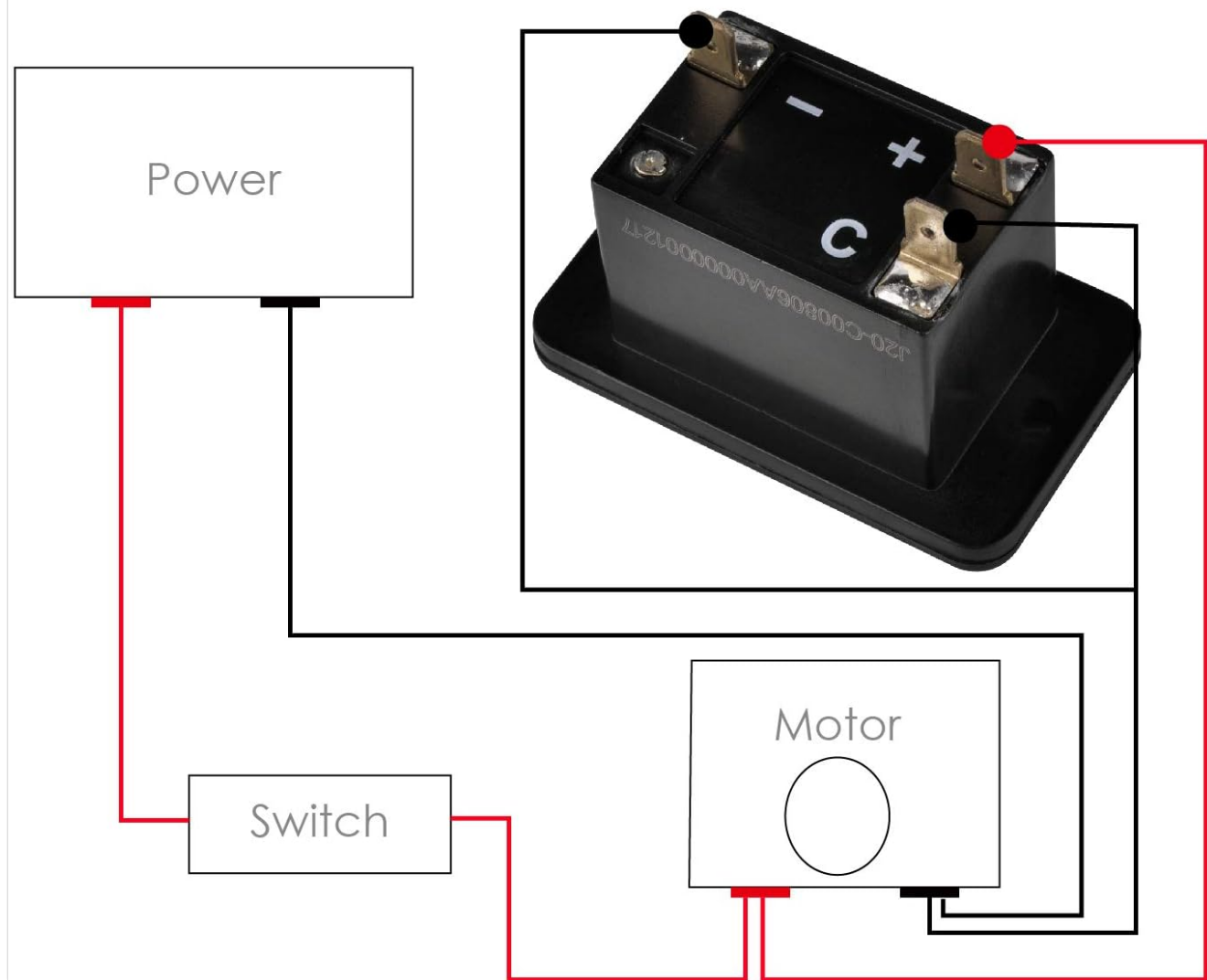


Figure 5.2: Wiring diagram showing connections for power, an optional switch, and the motor/equipment to be monitored. Ensure correct polarity (+/-).



Figure 5.3: Rear view of the hour meter, indicating the positive, negative, and 'C' terminals for wiring connections.

6. OPERATING INSTRUCTIONS

6.1 Reading the Display

The LCD display shows the total accumulated operating hours. The display has 6 digits, with the last digit representing tenths of an hour (e.g., 12345.6 H).

6.2 Resetting Total Hours

The total hours displayed on the Runleader RL-HM010 can be reset. This feature is particularly useful when the meter is moved to a new piece of equipment or when you need to start tracking from zero for a specific project. Refer to the detailed instructions provided in the product packaging for the specific reset procedure, as it may involve a combination of power cycling or specific terminal connections.

6.3 Display On/Off Control

If a key-switch is integrated into the wiring (as shown in Figure 5.2), you can use this switch to turn the meter's display on or off without affecting the hour counting function.

7. MAINTENANCE AND CARE

7.1 Waterproof Rating (IP65)

The Runleader RL-HM010 hour meter is rated IP65 waterproof, meaning it is protected from dust ingress and low-pressure water jets from any direction. This makes it suitable for use in environments where it may be exposed to splashes or light rain. However, it is not designed for submersion.

WATERPROOF

IP65 
Waterproof



Figure 7.1: The hour meter covered in water droplets, illustrating its IP65 waterproof capability.

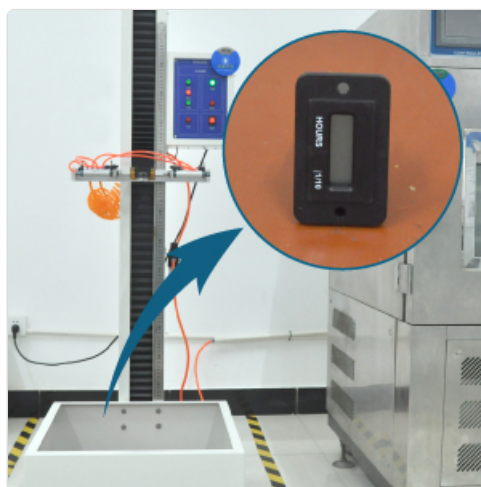


Figure 7.2: The hour meter being subjected to a water spray test, confirming its resistance to water ingress.

7.2 General Care

- Keep the meter clean by wiping it with a soft, dry cloth.
- Avoid using harsh chemicals or abrasive cleaners.
- Ensure all connections remain secure to prevent intermittent readings.

8. TROUBLESHOOTING

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

- **No Display:**
 - Check power connections to ensure they are secure and correctly wired according to the diagram (Figure 5.2).
 - Verify that the power source voltage is within the specified range (DC 4.5V-90V or AC 86-230V).
 - If a key-switch is used, ensure it is in the "on" position.
- **Incorrect Readings:**
 - Ensure the meter is correctly connected to the equipment whose hours you intend to track.
 - Confirm that the meter is securely mounted and not subject to excessive vibration that could affect internal components.
- **Display Freezes:**
 - Temporarily disconnect and reconnect power to reset the meter.
 - Ensure the operating temperature is within the meter's specified range.

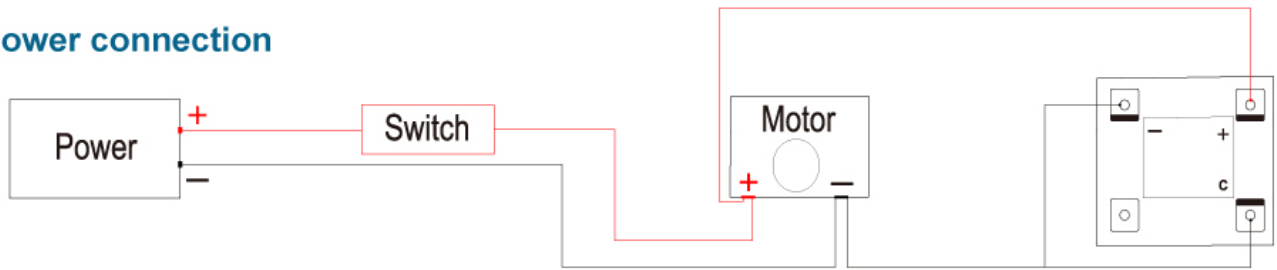
If problems persist after attempting these steps, please contact Runleader customer support for further assistance.

9. SCOPE OF APPLICATION

The Runleader Digital LCD Hour Meter is versatile and can be used in a variety of applications to track the operating time of equipment. Common applications include:

- Floor Sweepers
- Electric Mobiles
- Forklifts
- Golf Carts
- ZTR Lawn Mowers
- Tractors
- Generators
- Club Cars
- Scrubbers
- Marine Equipment
- ATVs
- Motors
- Compressors
- Other Powered Equipment

Power connection



Snap-in installation

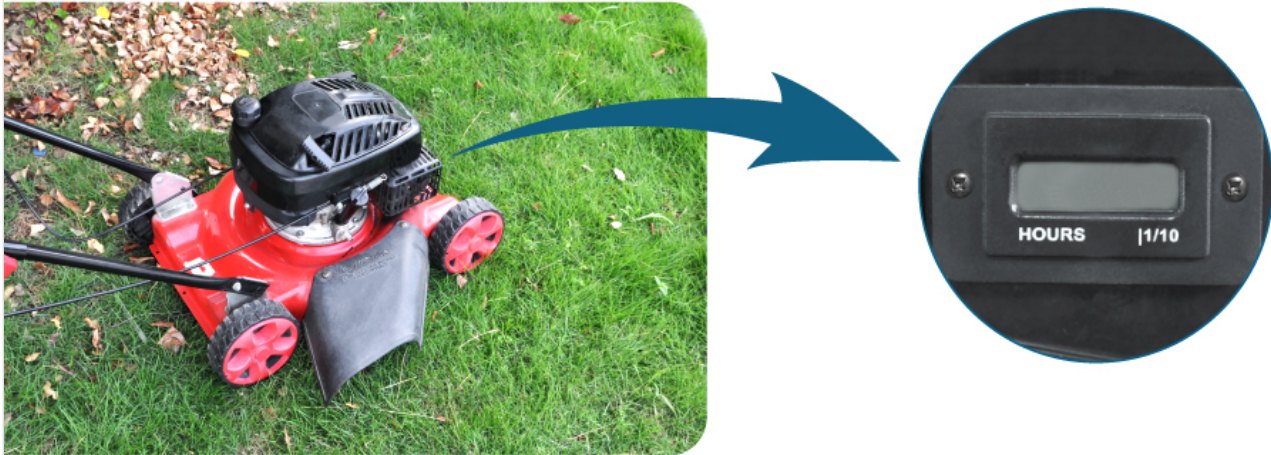


Figure 9.1: Visual representation of common applications for the Runleader hour meter.

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The Runleader Digital LCD Hour Meter comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official Runleader store or contact their customer service. You can find more information and contact details at the [Runleader Store on Amazon](#).

© 2023 Runleader. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.

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

Open the live page

<https://manuals.plus/asin/B01G2RY06Y>

More documents and user manuals: <https://manuals.plus/>