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› Runleader Digital Self Powered Tach/Hour Meter User Manual

Runleader RL-HM019R

Runleader Digital Self Powered Tach/Hour Meter User Manual

Model: RL-HM019R

1. INTRODUCTION

Thank you for choosing the Runleader Digital Self Powered Tach/Hour Meter. This device is designed to provide accurate engine RPM readings and track engine operating hours, helping you maintain your equipment effectively. Its robust design ensures reliability in various environments.



Image 1.1: Runleader Digital Self Powered Tach/Hour Meter with its wire.

2. KEY FEATURES

- **Hours Tracking:** Monitors total run time (TOT) and individual trip hours (JOB) for gas engines.
- **Maintenance Reminders:** Helps determine when maintenance tasks (e.g., air filter and oil change) are due. TOT and JOB hours range: 0-999,999 hours. Maintenance time range: 0-1000 hours.
- **RPM Measurement:** Displays current engine RPM and the highest RPM achieved since engine start. RPM measurement range: 0 to 25000 RPM.
- **Adjustable Firing Patterns:** Allows selection of various engine firing patterns for accurate RPM readings.
- **Water/Shock Resistance:** 100% epoxy resin sealing provides protection against dampness, moisture, and strong shocks, rated IP68.
- **Easy Installation:** Can be mounted using stick-on adhesive or screws. Features a simple one-wire hook-up for engine signal detection.
- **Long Battery Life:** Built-in CR2450 battery with a lifespan of up to 3 years.

HOURS & RPM MODES



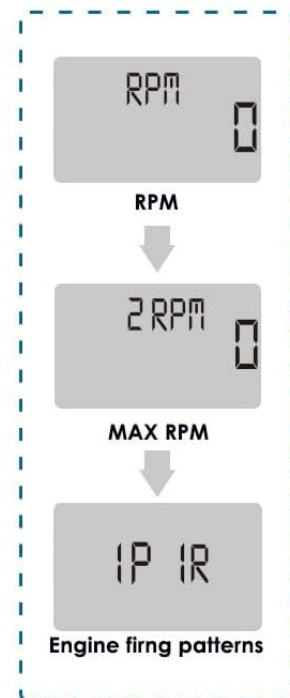
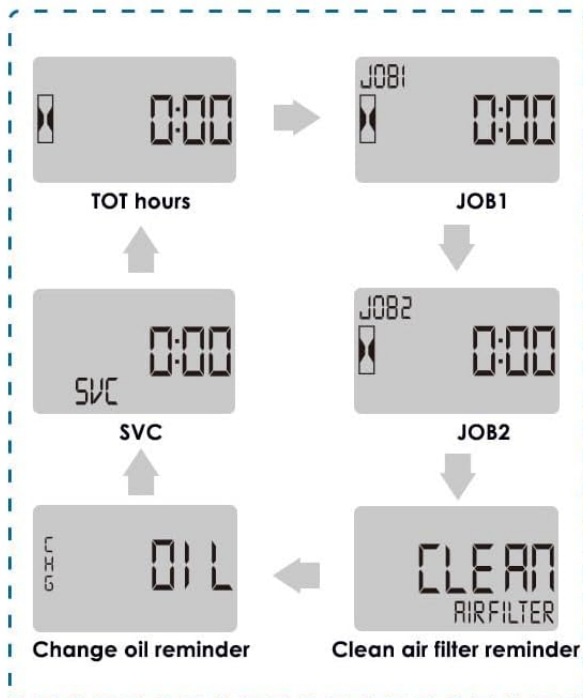
Hours mode



Press and hold the button to switch the 2 modes.



RPM mode



- You can view the TOT hours always upon hours mode, the real-time RPM will be recorded when engine is on

Image 2.1: Illustration of Hours and RPM display modes on the meter.

3. SETUP AND INSTALLATION

3.1 Package Contents

- Runleader Tach/Hour Meter x 1
- Cable ties x 2
- Double-sided tape x 1
- Screws x 2

- User Manual x 1



Image 3.1: Contents of the product package, including the meter, cable ties, double-sided tape, screws, and user manual.

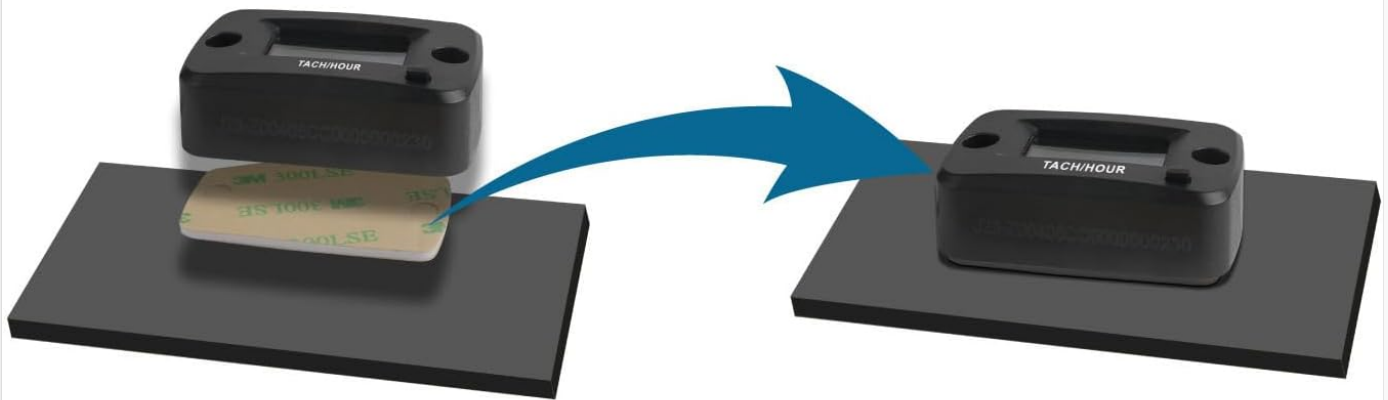
3.2 Mounting Options

The meter offers two convenient mounting methods:

- **Stick-on Mounting:** Use the provided double-sided tape to adhere the meter to a clean, flat surface.
- **Screw-on Mounting:** Use the provided screws to securely fasten the meter through its mounting holes to a suitable surface.

PRODUCT MOUNTING

■ Stick-on mounting



■ Screw-on mounting

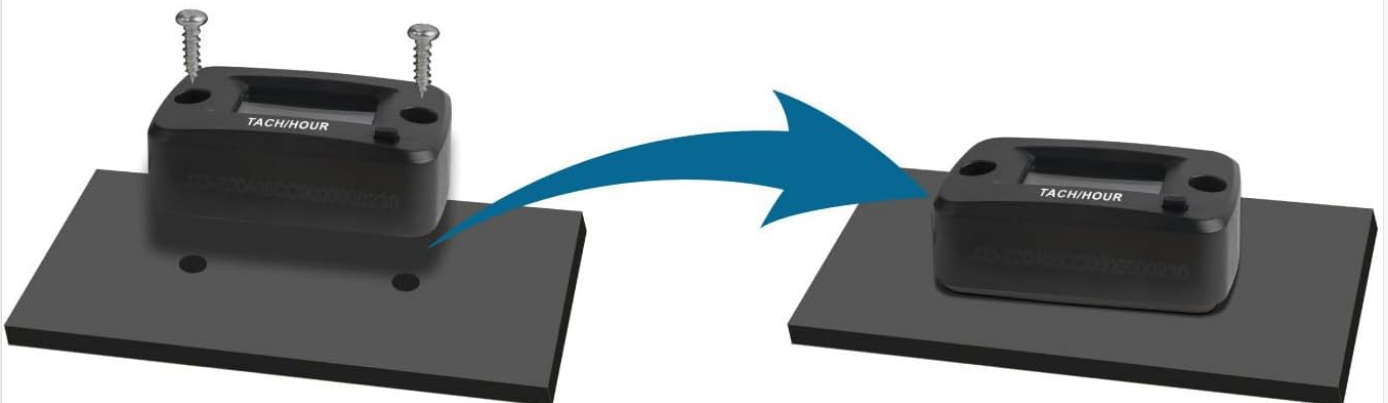
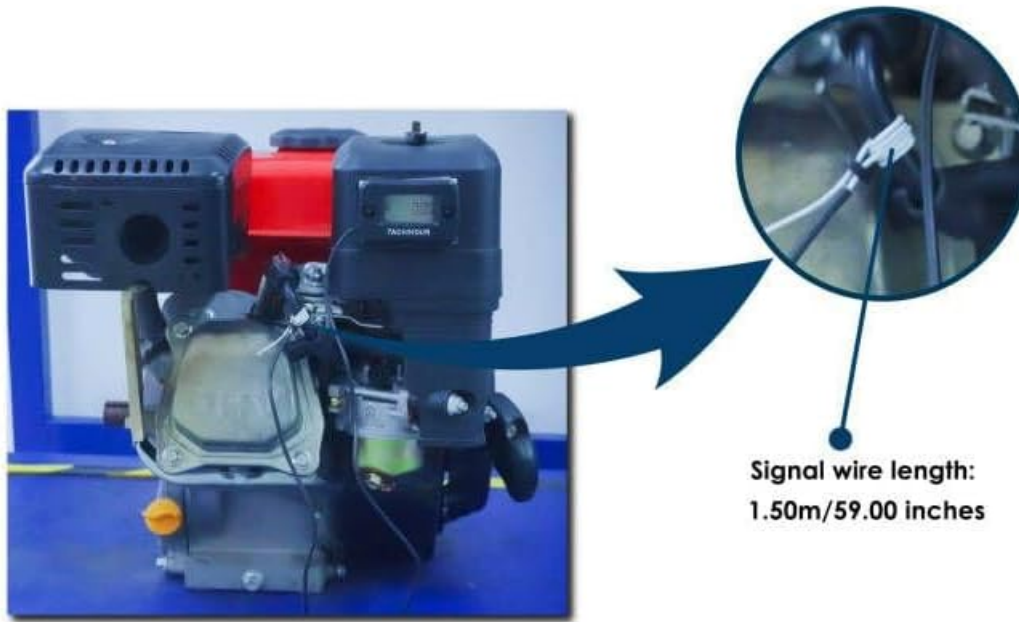


Image 3.2: Visual guide for stick-on and screw-on mounting methods.

3.3 Engine Signal Connection

The meter detects engine signals via a single wire hook-up. Wrap the signal wire around the spark plug wire of your engine. The standard wire length is approximately 68.8 inches (1.75 meters), and it can be shortened or extended as needed.

ENGINE SIGNAL PICKUP



- It can work on 12 types of gas engines:
 - 2 stroke 1/2/3 cylinders.
 - 4 stroke 1/2/3/4/5/6/8/12/16 cylinders.

Image 3.3: Diagram showing how to connect the signal wire to the engine's spark plug wire for signal pickup.

This meter is compatible with 12 types of gas engines, including:

- 2-stroke 1/2/3 cylinders
- 4-stroke 1/2/3/4/5/6/8/12/16 cylinders

4. OPERATING INSTRUCTIONS

4.1 Switching Modes (Hours & RPM)

Press and hold the button on the meter to switch between the Hours mode and RPM mode. In Hours mode, you can view the total operating hours (TOT) and job hours (JOB). In RPM mode, the real-time RPM will be displayed when the engine is running.

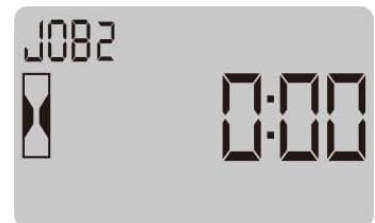
4.2 Job Timers (JOB1, JOB2)

The meter provides two groups of partial hours (JOB1 and JOB2) to record the operating hours during a single working period. These values can be reset by pressing and holding the button when the respective JOB timer is displayed.

JOB TIMERS



JOB1 Timer



JOB2 Timer



Press and hold the button to reset the value.



- Available 2 groups of partial hours to record the hours running during single working period, its can be reset.

Image 4.1: Display of JOB1 and JOB2 timers, showing how to reset them.

5. MAINTENANCE REMINDERS (SVC)

The meter includes three SVC timers to help you perform regular maintenance for different engine components. These reminders advise you when service is due.

- **Oil Change Reminder:** Indicates when an oil change is recommended.
- **Clean Air Filter Reminder:** Prompts you to clean or replace the air filter.
- **General SVC Reminder:** A customizable service reminder.

SVC MAINTENANCE REMINDERS



Clean air filter reminder



Chang oil reminder



SVC reminder

- Available 3 SVC timers to perform regular maintenance for different engine components, help to advise the arrival status.

Image 5.1: Displays for Clean Air Filter, Change Oil, and SVC reminders.

6. TROUBLESHOOTING

If you encounter issues with your Runleader Tach/Hour Meter, please refer to the following common problems and solutions:

- **No Display/Meter Not Turning On:** Ensure the signal wire is correctly wrapped around the spark plug wire. The unit is self-powered by an internal battery, which has a lifespan of approximately 3 years. If the battery is depleted, the unit may need replacement as the battery is non-replaceable.
- **Inaccurate RPM Readings:** Verify that the signal wire is securely connected and properly wrapped. Ensure the correct engine firing pattern is selected in the meter's settings (refer to the full user manual for detailed setting adjustments). Interference from other electrical components can also affect readings; try rerouting the signal wire if possible.
- **Hours Not Accumulating:** Confirm the engine is running and the signal wire is properly connected. The meter only records hours when it detects engine operation.

- **Display Flickering or Malfunctioning:** This could indicate a low battery or exposure to extreme conditions. While the unit is water and shock resistant, prolonged exposure to severe conditions beyond its IP68 rating may affect performance.

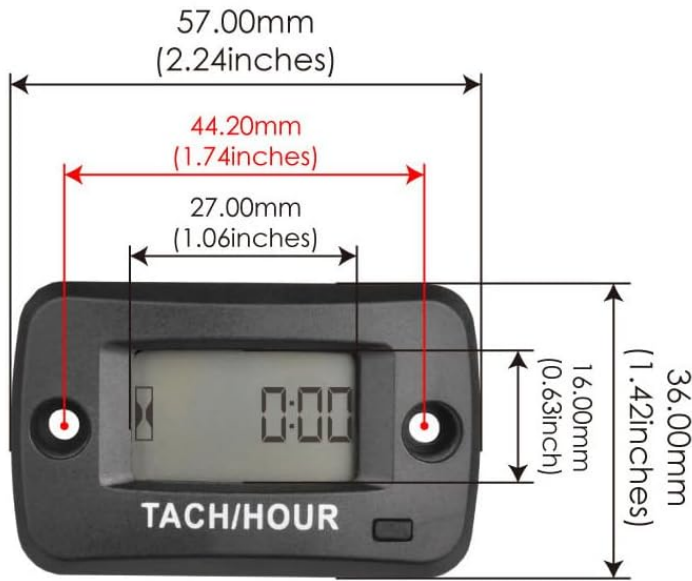
For persistent issues, please contact Runleader customer support.

7. SPECIFICATIONS

Attribute	Value
Brand	Runleader
Model Number	RL-HM019R
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	60 Grams (2.12 ounces)
Screen Size	5 Centimeters
UPC	791296605771
RPM Measurement Range	0 to 25000 RPM
Hours Range (TOT/JOB)	0-999,999 hours
Maintenance Time Range	0-1000 hours
Water Resistance	IP68
Battery	1 Lithium Metal battery (CR2450), included, non-replaceable
Battery Life	Up to 3 years
Signal Wire Length	Approx. 68.8 inches (1.75 meters)
Manufacturer	Ningbo Jiangbei Run Leader Electronics Co., Ltd

DIMENSIONS & ACCESSORIES

■ Dimensions



■ Accessories



Product * 1



Cable ties * 2



Double sided tape * 1



User manual * 1



Screws * 2



Blister card * 1

Image 7.1: Detailed dimensions of the meter and a visual list of included accessories.

8. WARRANTY AND SUPPORT

Runleader provides reliable technical support and a 2-year after-sales service for this product. For any inquiries, technical assistance, or warranty claims, please contact Runleader customer service through your purchase platform or the official Runleader website.

Important Safety Information: This product contains a button cell battery. Ingestion can cause severe injury or death in as little as 2 hours. Keep new and used batteries away from children. Seek immediate medical attention if a battery is 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 insied any part of the body.	⚠️ WARNUNG • VERSCHLUCKUNGSGEFAHR:Dieses Produkt enthält eine Knopfzelle oder Knopfbatterie. • TOD oder schwere Verletzungen können bei Verschlucken auftreten. • Eine verschluckte Knopfzelle oder Knopfbatterie 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 heur. • 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 botton. • 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 ingeslikte 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 ingeslikt of in een deel van het lichaam is geplaatst.

Image 8.1: Safety warnings regarding the button cell battery, displayed in multiple languages.

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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