

[Manuals.plus](#) /

> [Runleader](#) /

> Runleader Digital Hour Meter Tachometer Gauge RPM Alert Backlights Display Battery Replaceable for 2/4 Stroke Small Gas Engine Used on Lawn Mower Generator Outboard Motor ATV Snowmobile Chainsaw User Manual

Runleader RL-HM011HA

Runleader Digital Hour Meter Tachometer Gauge User Manual

Model: RL-HM011HA

IMPORTANT SAFETY INFORMATION

⚠ 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

- **VERSLUCKUNGSGEFAHR:** 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 de bouton.
- La **MORTE** 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 ENFANTS.
- 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.



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.

PRODUCT OVERVIEW

The Runleader Digital Hour Meter Tachometer Gauge (Model RL-HM011HA) is a versatile instrument designed for 2/4 stroke small gas engines. It provides essential data such as engine RPM, total accumulated hours, partial hours, and features a maintenance reminder. Equipped with a bright backlight display and a replaceable battery, it is suitable for various applications including lawn mowers, generators, outboard motors, ATVs, snowmobiles, and chainsaws.



Figure 1: Runleader Digital Hour Meter Tachometer Gauge (Model RL-HM011HA)

KEY FEATURES

- **Run Hour Meter:** Tracks total (TOT) and partial (JOB) engine hours up to 999,999 hours. Allows programming of previous time (INT) for new meter replacements.
- **RPM Meter Gauge:** Displays real-time RPM (0-25000 RPM) and the highest RPM achieved since engine start. Features an RPM alert (100-25000 RPM) and selectable refresh rates (0.5/1s).
- **Maintenance Timer (SVC):** Configurable service reminder from OFF/5-2000 hours. Alerts with a red backlight and flashed display when maintenance is due.
- **Backlight Display:** Features a bright white backlight with always-on, OFF, and automatic modes. Red backlight indicates RPM alerts or maintenance reminders.
- **Water and Shock Resistance:** Favorable water and shock resistance with a PC display window and O-ring sealed back compartment (IP65 Waterproof).
- **Replaceable Battery:** Built-in CR2032 replaceable battery with insulation sheet for extended shelf life.

FAVORABLE WATER RESISTANCE



**IP65
Waterproof**



Figure 2: The meter features IP65 water resistance for durability in various environments.

PACKAGE CONTENTS

Before installation, please verify that all items are present and in good condition:

- Runleader Digital Hour Meter Tachometer Gauge (x1)
- User Manual (x1)
- Installation Manual (x1)
- 3M Adhesive Velcro (x1)
- Mini Screwdriver (x1)
- M4x35 screws (x2)
- M4x16 screws (x2)

- M4 spring washers (x4)
- M4 flat washers (x4)
- M4 hex nuts (x4)
- Cut-out sticker (x1)
- Cable ties (x2)

DIMENSION & ACCESSORIES



Figure 3: Included accessories and product dimensions.

SETUP AND INSTALLATION

Engine Signal Connection

The meter detects engine signals by wrapping its signal wire around the spark plug wire. This method is compatible with 13 types of gas engines, including 2-stroke (1/2/3/4/6 cylinders) and 4-stroke (1/2/3/4/5/12/16 cylinders).

1. Locate the spark plug wire on your engine.
2. Wrap the meter's signal wire around the spark plug wire for approximately 5 turns.
3. Secure the wrapped wires with electrical tape or cable ties to ensure a stable connection. The wire length is approximately 68.8 inches (1.75m) and can be shortened or extended as needed.



Figure 4: Proper method for engine signal pickup.

Product Mounting Options

The Runleader tachometer offers multiple installation methods to suit various applications:

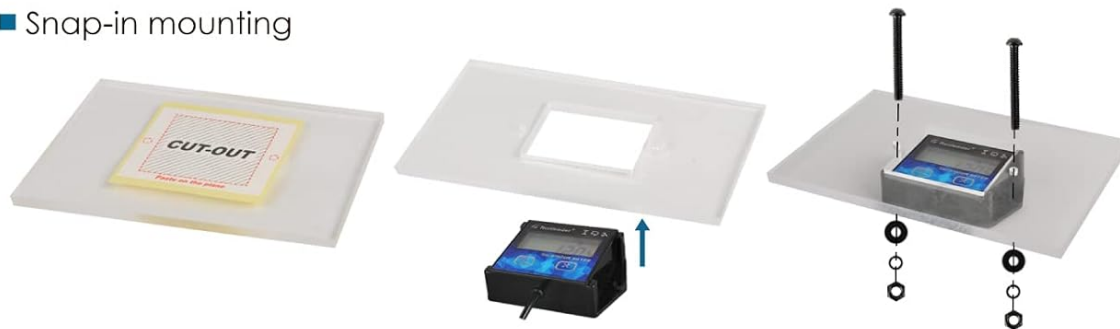
- **Stick-on Mounting:** Use the provided 3M adhesive velcro to attach the meter to a flat surface.
- **Snap-in Mounting:** Utilize the cut-out sticker to mark and create a panel cut-out (2.08 x 1.57 inches), then snap the meter into place.
- **Screw-on Mounting:** Secure the meter using the included M4 screws, spring washers, flat washers, and hex nuts.

PRODUCT MOUNTING

■ Stick-on mounting



■ Snap-in mounting



■ Screw-on mounting



Figure 5: Illustration of stick-on, snap-in, and screw-on mounting methods.

OPERATING INSTRUCTIONS

Display Modes

The meter cycles through different display modes, providing comprehensive engine information:

- **RPM Display:** Shows real-time engine revolutions per minute when the engine is running.
- **Clock Display:** Displays the current time in a 24-hour system when the engine is off.
- **Total Hours (TOT):** Tracks the total accumulated operating hours of the engine. This can be viewed on the "TOT" interface.
- **Partial Hours (JOB):** Records hours for specific tasks or periods, which can be reset.

- **Maximum RPM:** Displays the highest RPM value recorded since the engine was last started.



RPM

- Display real-time RPM when engine is on.



CLOCK

- Display the clock time by 24-hours system when engine is off.



TOT

- You also can view the total hours tracking when engine is on during "TOT" interface.

Figure 6: Various display modes of the tachometer.

RPM Alert Function

The device can be configured to alert the user when the engine RPM exceeds a preset limit. The alert range is 100-25000 RPM. When the RPM limit is exceeded, the display will flash with a red backlight.

MAX RPM & RPM ALERT



MAX RPM

- It displays the maximum RPM value since engine started.



RPM ALERT

- It alerts the RPM running exceed by red backlight and flashed display.

Figure 7: Max RPM tracking and RPM alert indication.

Backlight Control

The bright white backlight can be set to one of three modes:

- **Always-on:** Backlight remains on continuously.
- **OFF:** Backlight is off (default setting).
- **Automatic:** Backlight activates when a button is pressed and turns off after a period of inactivity.

The red backlight automatically activates to indicate an RPM alert or a maintenance service time arrival.

MAINTENANCE

Service Timer (SVC)

The SVC timer helps you perform regular maintenance tasks by providing a countdown tracking. You can set the SVC timer range from OFF to 2000 hours (in 5-hour increments). When the set service interval is reached, the meter will remind you with a red backlight and a flashed display.

MAINTENANCE TIMER



SVC timer

- It perform an regular maintenance task by countdown tracking.



Maintenance reminder

- It will remind you the maintenance arrival time by red backlight and flashed display.

Figure 8: SVC timer countdown and maintenance reminder.

Battery Replacement

The meter uses a replaceable CR2032 lithium metal battery. To replace the battery:

1. Carefully open the battery compartment located on the back of the unit.
2. Remove the old CR2032 battery.
3. Insert a new CR2032 battery, ensuring correct polarity.
4. Close the battery compartment securely.

Note: Ensure the insulation sheet is removed from a new battery before installation if present.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Meter not turning on	Battery depleted or insulation sheet not removed.	Replace CR2032 battery. Ensure insulation sheet is removed.
Inaccurate RPM readings	Signal wire not properly wrapped or insufficient turns. Incorrect engine firing pattern setting.	Ensure signal wire is wrapped 5 times around the spark plug wire and secured. Verify the correct engine firing pattern is selected in the meter's settings.
Backlight not working as expected	Backlight mode setting is incorrect.	Check and adjust the backlight mode (always-on, OFF, automatic) in the meter's settings.
Maintenance reminder not activating	SVC timer not set or set to OFF.	Set the SVC timer to the desired interval (5-2000 hours).

SPECIFICATIONS

Model Number	RL-HM011HA
Brand	Runleader
Material	Polycarbonate (PC)
Dimensions (L x W x H)	2.52 x 0.75 inches (approx. 64mm x 19mm)
Item Weight	99 Grams
Battery Type	1 Lithium Metal (CR2032, included)
Hour Meter Range	0-999,999 hours (TOT & JOB)
RPM Measurement Range	0-25000 RPM
RPM Alert Range	100-25000 RPM
SVC Timer Range	OFF/5-2000 hours
Water Resistance	IP65 Waterproof
Engine Compatibility	2/4 Stroke Gas Engines (1/2/3/4/5/6/12/16 cylinders)

APPLICATION

The Runleader Digital Hour Meter Tachometer Gauge is applicable to a wide range of gas engine powered equipment, including but not limited to:

- Lawn Mowers
- Generators
- Motorcycles
- Outboard Motors
- Chainsaws
- ATVs (All-Terrain Vehicles)
- Snowmobiles

APPLICATION

It is applicable to gas engine powered equipment, such as:

- Lawn mower
- Generator
- Motorcycle
- Outboard motor
- Chainsaw
- ATV



Lawn mower



Generator



Motorcycle



Outboard Motor



Chainsaw



ATV

WARRANTY AND SUPPORT

Runleader provides reliable technical support and after-sales service for this product. **A2-year warranty** is offered from the date of purchase, covering defects in materials and workmanship under normal use.

For technical assistance, troubleshooting, or warranty claims, please contact Runleader customer service through the official channels provided at the point of purchase or on the Runleader website.

Please retain your proof of purchase for warranty validation.

© 2025 Runleader. All rights reserved.

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/B091SRQC3S>

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