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› [YOOREAL](#) /

› Yooreal Digital Small Engine Tachometer Hour Meter User Manual

YOOREAL YR-HM011F

Yooreal Digital Small Engine Tachometer Hour Meter User Manual

Model: YR-HM011F

Brand: YOOREAL

INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of the Yooreal Digital Small Engine Tachometer Hour Meter. This device is designed to accurately track engine hours and RPM for various small engines, including those found in lawn mowers, generators, chainsaws, outboard motors, snowblowers, jet skis, and dirt bikes. Please read this manual thoroughly before using the product to ensure proper function and longevity.



Figure 1: Yooreal Digital Small Engine Tachometer Hour Meter. This image shows the front view of the hour meter with its digital display, 'M' and 'S' buttons, and the attached inductive wire.

KEY FEATURES

- **Resettable Hourmeter:** Tracks total engine usage (TOT) from 0-99999 hours and service intervals (SVC) from 0-9999.9 hours. The TOT hours can be reset, and the SVC timer can be turned off.

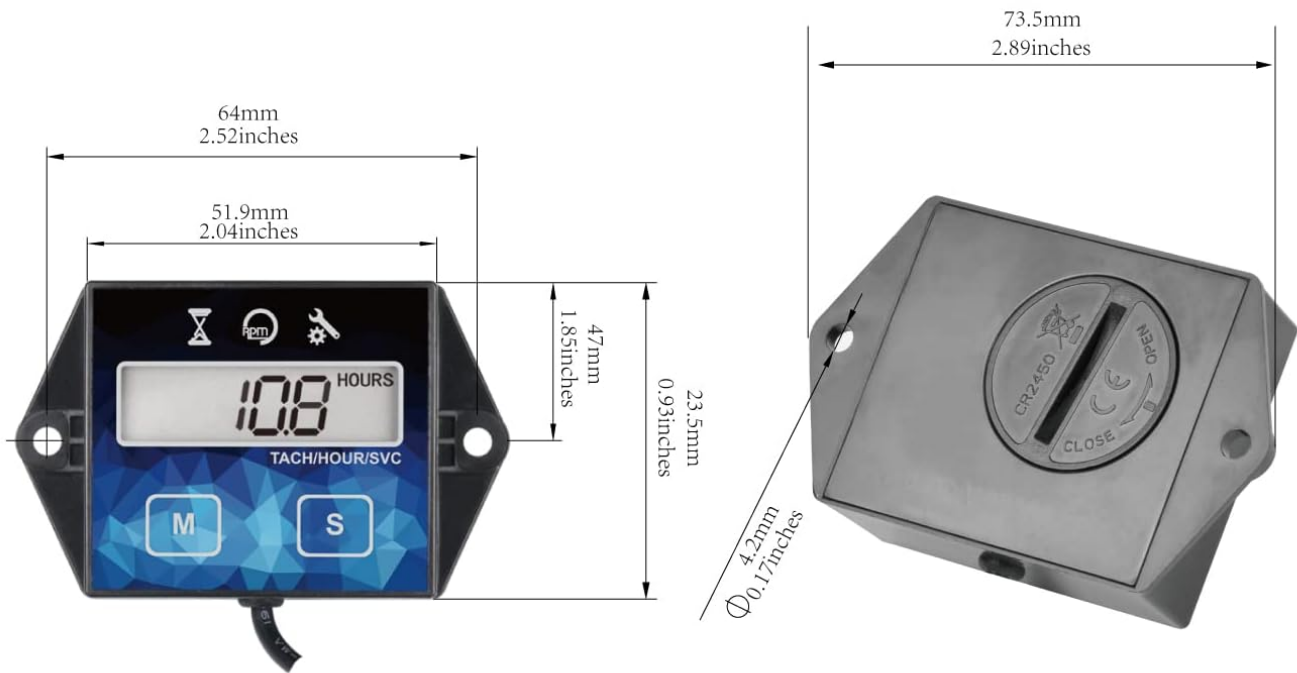
- **RPM Gauge:** Measures engine RPM from 0-20000 RPM with 10 RPM accuracy and a 0.5-second refresh rate. Features 3 selectable engine firing patterns for precise readings.
- **Power Saving Design:** Utilizes a CR2450 replaceable battery. An insulation sheet is included to preserve battery life during transport, and an LCD shutdown feature further extends battery life during periods of inactivity.
- **Easy Installation:** Can be mounted using screw-on or stick-on methods. Features a simple one-wire hook-up for engine signal detection. The inductive wire is approximately 68.8 inches (1.75m) long and can be shortened or extended (total length not to exceed 5m/16ft).
- **Durability:** Designed with favorable IP65 waterproof resistance and a robust housing. User data is retained even after display shutdown or battery replacement.

PACKAGE CONTENTS

Upon opening the product packaging, please verify that all the following items are included:

- Yooreal Digital Small Engine Tachometer Hour Meter (1 unit)
- Double-sided tape (1 piece)
- Cable ties (2 pieces)
- User manual (1 piece)
- Product box (1 piece)

PRODUCT DIMENSION



ACCESSORIES



Double-sided tape*1



Cable tie*2



User manual*1



Box*1

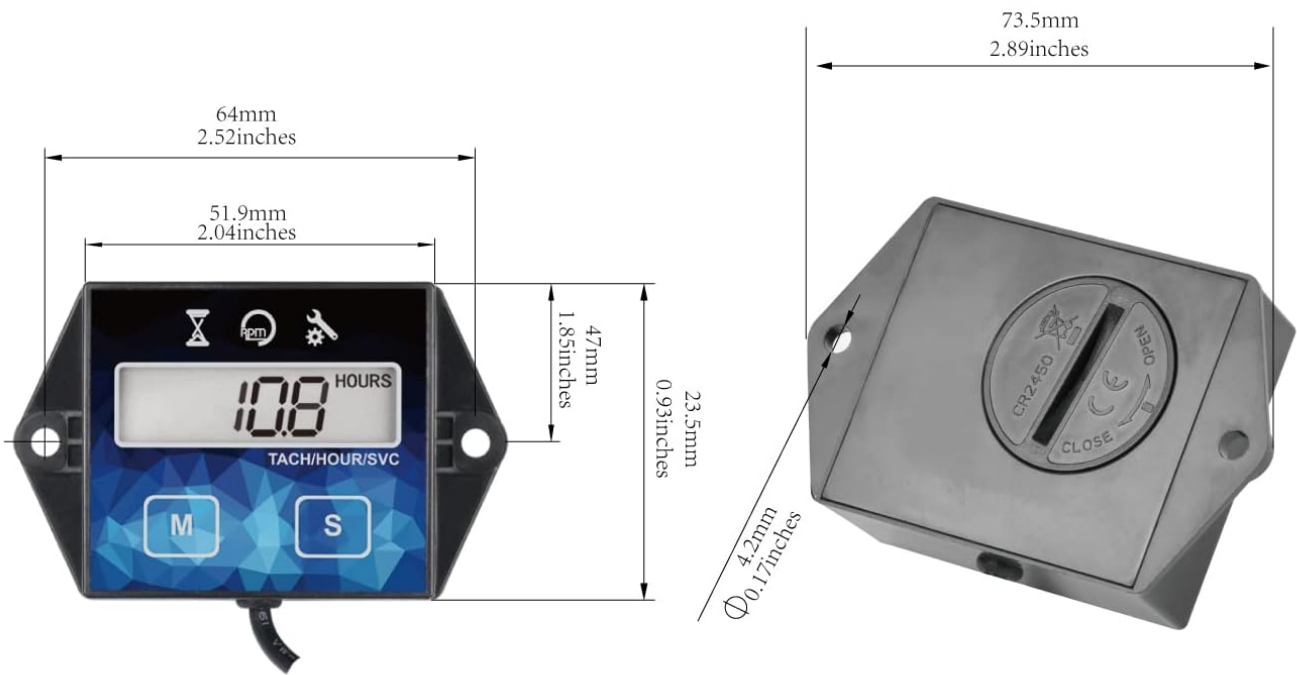
Figure 2: Included accessories. This image displays the hour meter, double-sided tape, cable ties, user manual, and the product box, illustrating the complete package contents.

SPECIFICATIONS

Attribute	Detail
Brand	YOOREAL
Model Number	YR-HM011F
Material	Acrylonitrile Butadiene Styrene (ABS)
Dimensions (L x W x H)	2.89 x 1.84 x 0.79 inches (73.5 x 46.7 x 20.1 mm)
Item Weight	60 Grams (2.12 ounces)

UPC	787997589571
Manufacturer	Ningbo Yooreal Electronics Co.,Ltd
Battery Type	1 Lithium Metal (CR2450), included and replaceable
Waterproof Rating	IP65
RPM Measurement Range	0-20000 RPM
TOT Hours Range	0-99999 Hours
SVC Timer Range	0-9999.9 Hours

PRODUCT DIMENSION



ACCESSORIES



Figure 3: Product dimensions. This image provides a detailed diagram of the hour meter's dimensions in both millimeters and inches.

SETUP AND INSTALLATION

The Yooreal Digital Small Engine Tachometer Hour Meter is designed for straightforward installation. Follow these steps to properly set up your device:

1. **Mounting the Meter:** Choose a suitable flat surface on your equipment. The meter can be mounted using either the provided double-sided tape for a stick-on application or screws through the integrated mounting holes for a more secure screw-on installation. Ensure the surface is clean and dry before applying tape.
2. **Connecting the Inductive Wire:** Wrap the inductive wire around the spark plug wire of your engine. The wire detects the engine's ignition pulses to measure RPM and total hours. Ensure the wire is securely fastened to prevent accidental dislodgement. The inductive wire length is approximately 68.8 inches (1.75m). It can be shortened or extended, but the total length should not exceed 5 meters (16 feet) to maintain signal integrity.
3. **Selecting Engine Firing Pattern:** The meter supports three selectable engine firing patterns to ensure accurate RPM readings for different engine types. Refer to the table below to select the correct pattern for your engine. This setting is crucial for accurate RPM display.



TOT can be reset to replace a new device.



When the maintenance intervals is up, the "SERVICE" icon will flash to reminder you, don't worry miss the time.

Easy installation



Inductive Wire length: 1.75m/68.8"
Can be shorten or extend

Note: Total length cannot exceed 5m/16'

Figure 4: Easy installation guide. This image illustrates the simple process of mounting the meter and wrapping the inductive wire around the spark plug cable.

3 SELECTABLE FIRING PATTERNS

Inductive Wire Length:
68.8 inches/1.75m



RPM range: 0-20000RPM,10 RPM accuracy,refresh rate:0.5s.

Engine firing patterns	Engine type	Spark plug firing and engine rotate laps	RPM Capacity
1P1R	4 stroke 2 cylinder	1 spark per revolution	20000
	2 stroke 1 cylinder		
2P1R	4 stroke 4 cylinder	2 spark per revolution	12000
	2 stroke 2 cylinder		
1P2R	4 stroke 1 cylinder	1 spark 2 revolution	20000

Figure 5: Three selectable firing patterns. This image shows the inductive wire connection and a table detailing the different engine firing patterns (1P1R, 2P1R, 1P2R) and their corresponding engine types and RPM capacities.

Engine Firing Pattern Table

Engine Firing Pattern	Engine Type	Spark Plug Firing and Engine Rotate Laps	RPM Capacity
1P1R	4 stroke 2 cylinder	1 spark per revolution	20000
	2 stroke 1 cylinder		
2P1R	4 stroke 4 cylinder	2 spark per revolution	12000
	2 stroke 2 cylinder		
1P2R	4 stroke 1 cylinder	1 spark 2 revolution	20000

OPERATING INSTRUCTIONS

The Yooreal Tachometer Hour Meter provides multiple functions accessible via its 'M' (Mode) and 'S' (Set) buttons.

Understanding Display Modes

Press the 'M' button to cycle through the different display modes:

- **TOT (Total Hours):** Displays the total accumulated running time of the engine. This value is non-resettable by default, ensuring a permanent record of engine usage. However, it can be reset if replacing the device or for specific maintenance needs (refer to the "Resetting TOT Hours" section). The range is 0-99999 hours.
- **RPM Gauge:** Shows the real-time engine revolutions per minute (RPM) when the engine is running. The display refreshes every 0.5 seconds.
- **SVC (Service Interval Timer):** This mode tracks time until a programmed service interval is due. The range is 0-9999.9 hours. When the service interval is reached, a "SERVICE" icon will flash on the display to remind you, preventing missed maintenance.

MULTIFUNCTION HOUR METER

TOT

-----Hours range:0 to 99999H

Display shows total run time of engine and remains visible

RPM GAUGE

-----RPM range:0 to 20000rpm

Record real-time rpm values when the engine is turned on

MAINTENANCE

-----SVC range:0 to 9999.9h

When the maintenance interval is up the "SERVICE" icon will flash to reminder you, don't worry miss the time.



Figure 6: Multifunction hour meter display. This image highlights the TOT, RPM Gauge, and Maintenance (SVC) functions, showing how the display changes to reflect each mode.

MAINTENANCE HOUR METER



Programmable maintenance reminder, countdown tracking time, such as: change oil/air filter.

Figure 7: Maintenance hour meter. This image shows the display indicating a service reminder, emphasizing the programmable maintenance reminder feature.

Setting Service Intervals (SVC)

To set or adjust the service interval:

1. While in SVC mode, press and hold the 'S' button until the digits begin to flash.
2. Use the 'M' button to increase the value of the flashing digit.
3. Press the 'S' button to move to the next digit.
4. Once the desired service interval is set, press and hold the 'S' button again to save the setting and exit.

When the engine accumulates hours equal to the set SVC value, the "SERVICE" icon will flash, indicating that maintenance is due.

Resetting TOT Hours

The TOT (Total Hours) can be reset, which is useful when installing the meter on a new engine or for specific record-keeping purposes. This action is irreversible.

1. Ensure the meter is in TOT display mode.
2. Press and hold both the 'M' and 'S' buttons simultaneously for approximately 5-10 seconds until the display shows "RESET" or the TOT value resets to 0.
3. Release the buttons. The TOT hours are now reset.



Figure 8: TOT reset and SVC reminder. This image visually demonstrates the "RESET" indication for total hours and the flashing "SERVICE" icon for maintenance reminders.

Proper maintenance ensures the longevity and accuracy of your Yooreal Tachometer Hour Meter.

Battery Replacement

The meter is powered by a replaceable CR2450 lithium metal battery. When the display becomes dim or unresponsive, it may be time to replace the battery.

1. Locate the battery compartment on the back of the meter.
2. Use a small coin or screwdriver to twist the battery cover counter-clockwise to unlock it.
3. Carefully remove the old CR2450 battery.
4. Insert a new CR2450 battery with the positive (+) side facing up.
5. Replace the battery cover and twist it clockwise to secure it.

Note: User data (TOT, SVC settings) will be retained even after the battery is replaced.



Figure 9: Power saving features. This image illustrates the CR2450 battery compartment and the insulating sheet, which helps preserve battery life during storage and transport.

Cleaning and Storage

- Clean the meter with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- While the device is IP65 waterproof, avoid prolonged submersion or direct high-pressure water jets.
- When storing the device for extended periods, especially before first use, ensure the insulation sheet is in place in the battery compartment to prevent battery drain.



Figure 10: Waterproof design. This image highlights the IP65 waterproof rating, showing the meter being exposed to water, and examples of applications like chainsaws, snowmobiles, lawn mowers, and UTVs.

TROUBLESHOOTING

If you encounter issues with your Yooreal Tachometer Hour Meter, please refer to the following common problems and solutions:

Problem	Possible Cause / Solution
---------	---------------------------

Display is blank or dim.	• Battery is dead or low. Replace the CR2450 battery. • Insulation sheet is still in place. Remove the insulation sheet from the battery compartment.
RPM reading is inaccurate or erratic.	• Incorrect engine firing pattern selected. Refer to the "Engine Firing Pattern Table" in the Setup section and adjust the setting. • Inductive wire is not properly wrapped around the spark plug wire or is loose. Ensure a secure connection. • Inductive wire is damaged. Inspect the wire for cuts or breaks.
Hour meter (TOT) is not accumulating.	• Engine is not running or not generating sufficient pulses. • Inductive wire connection issue (see RPM troubleshooting).
Cannot reset TOT hours.	• Ensure you are holding both 'M' and 'S' buttons simultaneously for the required duration (5-10 seconds).

If the problem persists after attempting these solutions, please contact YOOREAL customer support for further assistance.

SAFETY INFORMATION

WARNING: This product contains a button cell or coin battery. Button cell batteries can cause severe internal chemical burns if swallowed. Keep new and used batteries away from children. Seek immediate medical attention if a battery is swallowed or inserted into 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. ● KEEP new and used batteries OUT OF REACH of CHILDREN. ● Seek immediate medical attention suspected to be swallowed or inserted inside any part of the body. 	⚠ 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. 	⚠ VARNING ● FARA VID FÖRTÄRING: Denna produkt innehåller ett knappcells- eller myntbatteri. ● Dödsfall eller allvarlig skada kan inträffa vid förtäring. ● Ett knappcells- eller myntbatteri som sväljs kan orsaka inre kemiska brännskador på så kort tid som 2 timmar. ● FÖRVARA nya och använda batterier utom räckhåll för barn. ● Sök omedelbart läkarvård om du misstänker att ett batteri har sväljts eller förts in i någon del av kroppen. 
⚠ 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. 	⚠ 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 ENFANTS. ● Suchen Sie sofort einen Arzt auf, wenn der Verdacht besteht, dass eine Batterie verschluckt oder in einen Körperteil eingeführt wurde. 	⚠ OSTRZEŻENIE ● NIEBEZPIECZENSTWO POŁKNIECIA: Ten produkt zawiera baterię guzikową lub pastylkową. ● Połknięcie grozi śmiercią lub poważnymi obrażeniami. ● Połknięcie baterii guzikowej lub pastylkowej może spowodować wewnętrzne oparzenia chemiczne w ciągu zaledwie 2 godzin. ● NOWE I ZUŻYTE BATERIE NALEŻY PRZECHOWYWAĆ Z DALA OD DZIECI. ● W przypadku podejrzenia połknięcia lub włożenia baterii do jakiegokolwiek części ciała należy natychmiast skontaktować się z lekarzem. 
⚠ WARNUNG ● VERSLUCKUNGSGEFAHR: Dieses Produkt enthält eine Knopfzelle oder Knopfzelle. ● TOD oder schwere Verletzungen können bei Verschlucken auftreten. ● Eine verschluckte Knopfzelle oder Knopfzelle 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. 	⚠ WAARSCHUWING ● GEVAAR VOOR INSLIKKEN: Dit product bevat een knoopcel- of knoopcelbatterij. ● DOOD of ernstig letsel kan optreden bij inslikken. ● Een ingeslikt 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. 	⚠ UYARI ● YUTMA TEHLİKESİ: Bu ürün bir düğme hücre veya madeni para pil içerir. ● Yutulması halinde ÖLÜM veya ciddi yaralanma meydana gelebilir. ● Yutulan bir düğme pil veya madeni para pil 2 saat gibi kısa bir süre içinde kimyasal yanıklara neden olabilir. ● Yeni ve kullanılmış pilleri ÇOCUKLARIN ULAŞAMAYACAĞI YERLERDE TUTUN. ● Bir pilin yutulduğundan veya vücudun herhangi bir yerine sokulduğundan şüpheleniliyorsa derhal tıbbi yardım alın. 

Figure 11: Button cell battery warning. This image displays a multi-language warning regarding the dangers of button cell batteries if swallowed, emphasizing the need to keep them away from children.

WARRANTY AND SUPPORT

YOOREAL is committed to providing high-quality products and excellent customer service.

- **Warranty:** YOOREAL provides 2 years of technical support and after-sales service for this product. During this period, if there is any quality problem with the product, YOOREAL offers free replacement or return service.
- **Customer Service:** YOOREAL offers 7*24H professional online customer service. If you encounter any issues or have questions about the product, you can always contact the YOOREAL store through the Amazon platform for assistance.
- **Hassle-free Policy:** Even if the standard Amazon return window has closed, YOOREAL is dedicated to resolving your problems. Please reach out to the seller directly with your concerns.

For further assistance, please visit the [YOOREAL Store on Amazon](#).

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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