Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

YOOREAL HM035A TS002-1

Yooreal Digital Engine Temperature Gauge, Tachometer, and Hour Meter (Model HM035A TS002-1) User Manual

1. Introduction

This manual provides comprehensive instructions for the Yooreal Digital Engine Temperature Gauge, Tachometer, and Hour Meter, model HM035A TS002-1. This device is designed to monitor engine temperature, rotational speed (RPM), and total operating hours for various small gas engines, including those found in scooters, snowblowers, mini bikes, motorcycles, lawn tractors, generators, and dump trucks. Please read this manual thoroughly before installation and operation to ensure correct usage and optimal performance.

2. Product Features

- **New Temperature Probe:** Equipped with screws for adjustable angles and enhanced robustness. Measurement range: -20°C to +300°C (-4 °F to +572°F). Temp sensor aperture: ′14mm (0.55 inches).
- **Thermometer Function:** Measures and displays current engine temperature. Records maximum temperature (resettable). Temperature units can be switched between °C and °F. Features a red backlight alert for overtemperature conditions.
- **Multifunction Hour Meter:** Records Total Hours (TOT), Job Hours (JOB), and Service Reminders (SVC). TOT range: 0-99999H. JOB hours are resettable. SVC range: 5-1000H/OFF for maintenance reminders. Initial values can be set.
- **Tachometer Function:** Monitors real-time RPM with a range of 0-25000 RPM. Supports 9 programmable firing patterns and 4 selectable measure ranges for accurate readings. Records maximum RPM (resettable). Features a red backlight alert for overspeed conditions.
- **Easy Installation:** Offers two fixed methods: Velcro and screws. Simple installation by wrapping the inductive wire 4-5 turns around the spark plug wire. Inductive wire length: 1.75m (68.8 inches). Temp line length: 0.6m (23.6 inches).
- **Additional Features:** Includes a clock function, replaceable CR2032 battery, backlit display (settable to Auto/ON/OFF), IP67 waterproof rating, user shutdown capability, and records the number of engine starts.

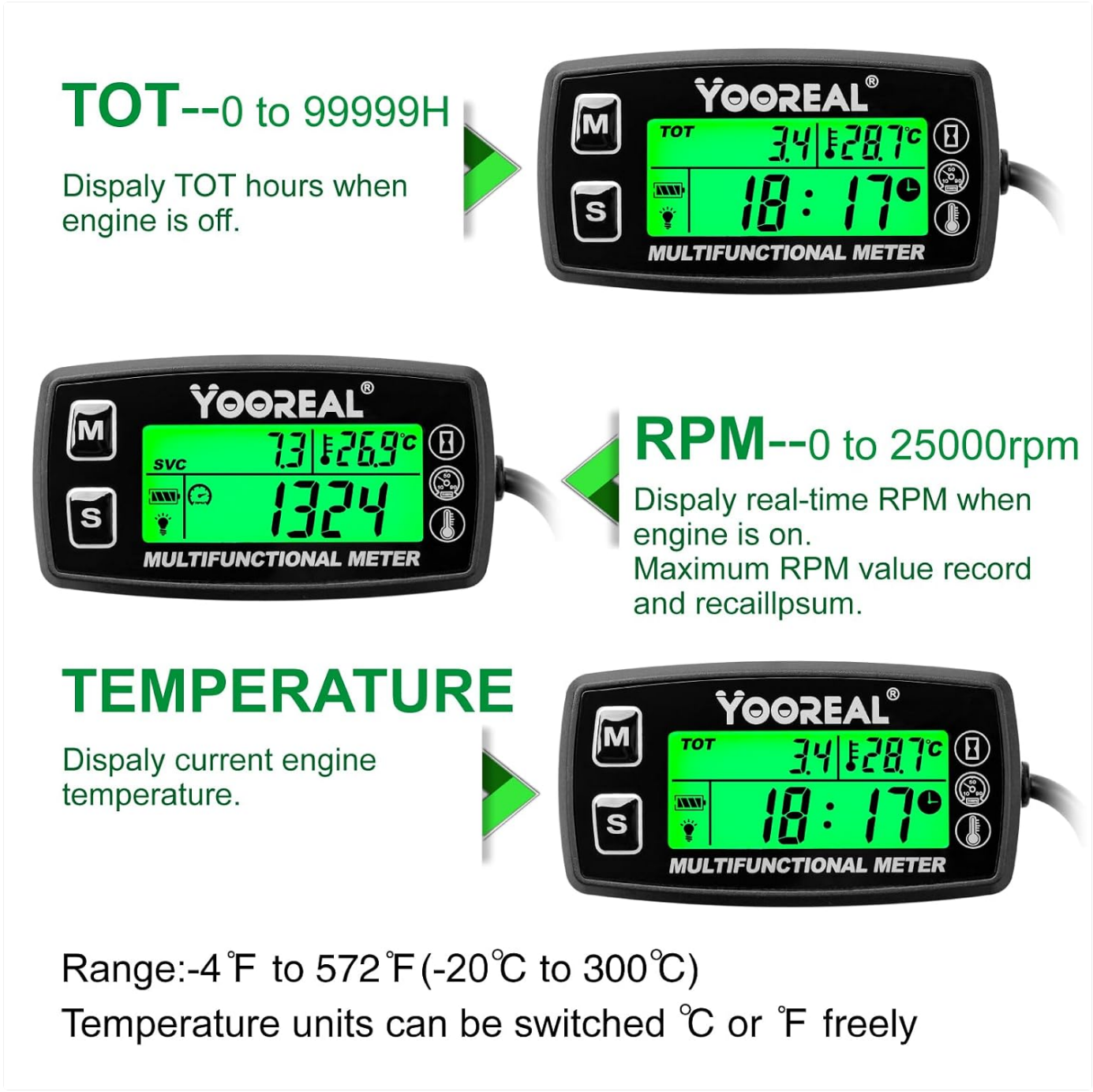


Figure 1: The Yooreal multifunctional meter displaying Total Hours (TOT), Engine RPM, and current Temperature. The display shows the time, battery indicator, and various function icons.



Figure 2: The meter displaying the JOB timer, which tracks specific work durations like oil changes, and the SVC (Service) reminder, used for maintenance countdowns such as air filter changes.

3. Package Contents

Verify that all items listed below are included in your package:

- Yooreal color box x1
- Nut x4
- Flat washer x2
- Bolt x2
- 3M adhesive velcro x1
- User manual x1
- Cut-out label x1
- Cable tie x2

- TS002-1 temperature probe x1
- CR2032 battery x1



Figure 3: An illustration detailing the dimensions of the Yooreal meter and a visual representation of all included accessories in the package.

4. Setup and Installation

4.1 Battery Installation

The device uses a replaceable CR2032 battery. To install or replace the battery:

1. Locate the battery compartment on the back of the meter.
2. Use a coin or small tool to twist the battery cover counter-clockwise to open.
3. Insert the CR2032 battery with the positive (+) side facing up.
4. Replace the cover and twist clockwise to secure.



Figure 4: Instructions for opening the battery compartment and replacing the CR2032 battery.

4.2 Mounting the Meter

The meter can be mounted using either Velcro or screws:

- **Velcro Installation:** Attach the adhesive Velcro strip to the back of the meter and to a clean, flat surface on your equipment. Press firmly to secure.
- **Screw Installation:** Use the provided screws and nuts to securely fasten the meter to a suitable location on your equipment. Ensure the mounting surface is appropriate for drilling.

4.3 Connecting the Inductive Wire (Tachometer/Hour Meter)

To enable RPM and hour tracking:

1. Locate the spark plug wire on your engine.
2. Wrap the inductive wire from the meter around the spark plug wire 4-5 turns.
3. Secure the inductive wire with cable ties to prevent it from coming loose or interfering with moving parts.

4.4 Connecting the Temperature Probe

The removable temperature probe (TS002-1) is designed for robust temperature measurement:

1. Identify the location on your engine where temperature measurement is desired (e.g., cylinder head, radiator hose).
2. Mount the temperature probe using its integrated screws. The probe's angle can be adjusted for optimal placement.
3. Connect the probe's wire to the designated temperature input port on the meter.



Figure 5: Visual guide for securing the meter using either the adhesive Velcro or screw mounting methods.

5. Operating Instructions

The meter features two main buttons: 'M' (Mode) and 'S' (Set).

5.1 Navigating Modes (M Button)

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

- **TOT (Total Hours):** Displays the cumulative operating hours of the engine. This value is not resettable.
- **JOB (Job Hours):** Displays the hours for a specific task. This value can be reset.
- **SVC (Service Reminder):** Displays the countdown for scheduled maintenance.
- **RPM (Revolutions Per Minute):** Displays the real-time engine speed when the engine is running.
- **Temperature:** Displays the current engine temperature.
- **Clock:** Displays the current time.

5.2 Setting Parameters (S Button)

Press and hold the 'S' button to enter setting mode for the currently displayed function. Short presses will adjust values or cycle through options.

5.2.1 Setting Initial TOT Value

In TOT mode, press and hold 'S' to set an initial total hour value, useful when replacing an old meter.

5.2.2 Resetting JOB Hours

In JOB mode, press and hold 'S' to reset the job timer to zero.

5.2.3 Setting SVC Reminder

In SVC mode, press and hold 'S' to set the service interval (5-1000 hours) or turn it OFF. The meter will display a reminder when the set hours are reached.

5.2.4 Setting RPM Firing Pattern and Range

In RPM mode, press and hold 'S' to select from 9 programmable firing patterns and 4 selectable measure ranges to match your engine type for accurate RPM readings.

5.2.5 Switching Temperature Units

In Temperature mode, press and hold 'S' to switch between Celsius (°C) and Fahrenheit (°F).

5.2.6 Setting Backlight Mode

The backlight can be set to Auto, ON, or OFF. Refer to the on-screen prompts when in backlight setting mode (usually accessed by holding 'M' or 'S' in a specific display mode, or a combination). The backlight will illuminate for warnings.



Figure 6: The meter's backlight display, showing examples of RPM overspeed warning, overtemperature warning, and SVC maintenance reminder, all indicated by a red backlight.

6. Maintenance

6.1 Battery Replacement

When the battery indicator shows low power or the display becomes dim, replace the CR2032 battery as described in Section 4.1.

6.2 Cleaning

Wipe the meter with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners, as this may damage the display or casing. The device has an IP67 waterproof rating, meaning it is protected from dust and can withstand immersion in water up to 1 meter for 30 minutes.

6.3 Service Reminders (SVC)

Utilize the SVC function to set reminders for routine engine maintenance, such as oil changes or air filter replacements.

This helps ensure the longevity and optimal performance of your engine.

7. Troubleshooting

If you encounter issues with your Yooreal meter, consider the following:

- **No Display/Dim Display:** Check the CR2032 battery. Replace if necessary.
- **Inaccurate RPM Reading:** Ensure the inductive wire is securely wrapped 4-5 turns around the spark plug wire. Verify that the correct firing pattern and measure range are selected in the settings.
- **Inaccurate Temperature Reading:** Ensure the temperature probe is correctly installed and connected. Check for any physical damage to the probe or its wiring.
- **Buttons Unresponsive:** Try replacing the battery. If the issue persists, contact customer service.

For further assistance or persistent problems, please contact YOOREAL store customer service.

8. Specifications

Feature	Specification
Model Number	HM035A TS002-1 (RL-HM035A)
Brand	YOOREAL
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	123 Grams
Package Dimensions	8.9 x 6.6 x 5.2 cm
Temperature Measurement Range	-20°C to +300°C (-4 °F to +572°F)
Temperature Sensor Aperture	′14mm (0.55 inches)
RPM Range	0-25000 RPM
TOT/JOB Hour Range	0-99999H
SVC Hour Range	5-1000H/OFF
Battery Type	CR2032 (Replaceable)
Waterproof Rate	IP67
Inductive Wire Length	1.75m (68.8 inches)
Temperature Line Length	0.6m (23.6 inches)
UPC	760752686852

9. Durability and Testing

The Yooreal meter undergoes rigorous testing to ensure its durability and reliability in various operating conditions.



Figure 7: Visuals of the product undergoing various tests, including high and low temperature tests, high-pressure water gun impact tests, button durability tests, and salt spray tests, confirming its robust design.

10. Warranty and Support

YOOREAL provides a 2-year product and technical service warranty. For any quality problems encountered during the service period, we offer free replacement service.

For product problems, technical assistance, or warranty claims, please contact YOOREAL store customer service directly. Refer to your purchase documentation for specific contact details.

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/B0D4QBX6D3

More documents and user manuals: **https://manuals.plus/**