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Yungeln TF-100

Yungeln TF-100 Electric Thumb Throttle with Display User Manual

Model: TF-100 | Brand: Yungeln | Compatible with KUGOO M4 Electric Scooter

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Yungeln TF-100 Electric Thumb Throttle with Display. This device is designed to enhance the control and information display for compatible electric scooters, specifically the KUGOO M4 series.

Key Features:

- Durable ABS material construction for good toughness and waterproof performance.
- Integrated display panel showing speed, gear, power level, mode, and indicator lights.
- Three levels of backlight adjustment for visibility in various lighting conditions.
- Configurable settings including automatic timer sleep modes and speed limits.
- Ergonomic thumb throttle for precise speed control.
- Designed for compatibility with KUGOO M4 electric scooters.

2. SAFETY INFORMATION

Please read all safety instructions before installation and operation. Failure to follow these instructions may result in damage to the product, scooter, or personal injury.

- Ensure the scooter is powered off before attempting any installation or maintenance.
- Always disconnect the battery before working on electrical components.
- Verify all connections are secure and correct before powering on the scooter.
- Do not attempt to modify the internal wiring or components of the throttle or display.
- If you are unsure about any installation step, consult a qualified technician.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all items are present and undamaged:

- Yungeln TF-100 Electric Thumb Throttle with Display
- Mounting bracket and screws
- Instruction Manual (this document)

4. PRODUCT OVERVIEW

The TF-100 unit combines a thumb throttle for speed control and an integrated display panel. It features a robust design suitable for electric scooter environments.



Figure 4.1: Front view of the Yungeln TF-100 Electric Thumb Throttle with Display. The display screen is circular, flanked by a power button and a mode button, with the thumb throttle lever on the right.

Detail design



Figure 4.2: Close-up details of the TF-100 unit, showing the display, power button, mode button, and the thumb throttle mechanism. The robust construction is visible.

Components:

- **Display Screen:** Shows operational data.
- **Power Button:** Used to turn the unit on/off.
- **Mode Button:** Cycles through display modes and settings.
- **Thumb Throttle:** Controls the scooter's speed.
- **Mounting Clamp:** Secures the unit to the scooter handlebar.
- **6-Pin Connector Cable:** For electrical connection to the scooter controller.

5. SETUP & INSTALLATION

Follow these steps to properly install the TF-100 Electric Thumb Throttle with Display on your KUGOO M4 electric scooter.

1. **Prepare the Scooter:** Ensure your electric scooter is powered off and the battery is disconnected for safety.
2. **Remove Old Unit (if applicable):** If replacing an existing throttle/display, carefully disconnect its wiring and remove it from the handlebar.
3. **Mount the TF-100:** Position the TF-100 unit on your scooter's handlebar in a comfortable and accessible

location. Use the provided mounting bracket and screws to secure it firmly. Do not overtighten.

4. **Connect Wiring:** Locate the corresponding 6-pin connector on your KUGOO M4 electric scooter's controller wiring harness. Carefully align and connect the 6-pin connector from the TF-100 unit to the scooter's harness. Ensure a snug and secure connection.
5. **Secure Cables:** Route and secure the cable neatly along the handlebar and frame using cable ties or clips to prevent interference with steering or moving parts.
6. **Reconnect Battery:** Once all connections are secure, reconnect the scooter's battery.

Electric scooter display meter

Due to the good heat dissipation function, the internal circuit can be protected to avoid thermal overload



Figure 5.1: Illustration showing the 6-pin connector for the TF-100 unit and an example of the display installed on an electric scooter handlebar.



Material Plastic Simple design
Easy to install and operate
Practical and convenient

Figure 5.2: The TF-100 display unit positioned in front of an electric scooter, demonstrating its intended use and compatibility.

6. OPERATING INSTRUCTIONS

This section details how to use the TF-100 display and thumb throttle.

6.1 Power On/Off

- To power on the display, press and hold the **Power Button** (usually marked with a power symbol) for a few seconds until the screen illuminates.
- To power off, press and hold the **Power Button** again until the display turns off.

6.2 Display Functions

The display provides real-time information about your scooter's status:

- **Speed:** Current riding speed.
- **Gear/Mode:** Indicates the current power assist level or riding mode.
- **Battery Level:** Shows the remaining battery charge.
- **Indicator Lights:** May include headlight, turn signal, or other status indicators.

6.3 Mode Button and Settings

The **Mode Button** allows you to cycle through different display information and access settings.

- **Short Press:** Cycles through various display parameters (e.g., Odometer, Trip Distance, Voltage).
- **Long Press:** Enters the settings menu. Once in the settings menu, short presses typically navigate through options, and another long press confirms a selection or exits the menu.

Common Settings (P-Settings):

The TF-100 display supports various programmable settings (often referred to as P-settings) to customize your riding experience. These may include:

- **Backlight Level:** Adjust display brightness (3 levels available).
- **Automatic Timer Sleep Mode:** Sets the idle time before the display automatically turns off.
- **Speed Limits:** Configures the maximum speed of the scooter.
- **Wheel Diameter:** Essential for accurate speed and distance readings. Adjust this to match your scooter's wheel size.
- **Magnet Pole Count:** Used for speed sensor calibration. Adjust this according to your motor's specifications for accurate speed readings.

Note: Specific P-setting codes and their functions may vary. Refer to your scooter's main controller manual or online resources for detailed instructions on adjusting these parameters for your specific KUGOO M4 model. Incorrect settings can affect performance and safety.

6.4 Thumb Throttle Operation

The thumb throttle controls the acceleration of your electric scooter. Gently press down on the lever with your thumb to increase speed. Release the lever to decelerate. Always operate the throttle smoothly and with caution.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your TF-100 display and throttle.

- **Cleaning:** Wipe the display and throttle unit with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the plastic or screen.
- **Water Exposure:** While the unit offers waterproof performance, avoid submerging it in water or exposing it to heavy, direct water jets. Ensure the connector is dry before connecting or disconnecting.
- **Connection Check:** Periodically check that the 6-pin connector remains securely attached and free from corrosion or damage.
- **Physical Inspection:** Inspect the unit for any signs of physical damage, cracks, or loose components.

8. TROUBLESHOOTING

If you encounter issues with your TF-100 unit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display does not power on.	Loose or disconnected 6-pin connector. Scooter battery is low or disconnected. Internal wiring issue.	Check and secure the 6-pin connector. Ensure the scooter battery is charged and properly connected. If the issue persists, consult a technician.
Incorrect speed or distance readings.	Incorrect wheel diameter setting. Incorrect magnet pole count setting.	Access P-settings and adjust the wheel diameter to match your scooter's specifications. Access P-settings and adjust the magnet pole count according to your motor's specifications.
Throttle not responding or erratic.	Loose connection. Damaged throttle mechanism.	Check the 6-pin connector for secure fit. Inspect the throttle for physical damage. Replacement may be necessary.

If you experience any issues not listed here or if the suggested solutions do not resolve the problem, please contact customer support.

9. SPECIFICATIONS

Feature	Detail
Brand	Yungeln
Model Name	TF-100
Material	ABS (Display), Aluminum (Frame)
Product Dimensions (L x W x H)	4.92" x 4.4" x 4.41" (12.5 x 11.2 x 11.2 cm)
Weight	Approx. 120 Grams (0.12 Kilograms)
Special Feature	Lights (Backlight)
Compatibility	KUGOO M4 Electric Scooter
Connector Type	6-pin



Figure 9.1: Diagram illustrating the key dimensions of the TF-100 display unit.

10. WARRANTY AND SUPPORT

The Yungeln TF-100 Electric Thumb Throttle with Display comes with a limited warranty. Please refer to the product packaging or contact your retailer for specific warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact Yungeln customer service through the retailer where the product was purchased or visit the official Yungeln store page on Amazon.

Yungeln Store: <https://www.amazon.com/stores/Yungeln/page/9DF5FC2C-63A5-441E-B25A-BC0187CBF425>