

Manuals.plus /

› Wokyo /

› TF-100 6 PIN Electric Scooter Thumb Throttle Speedometer with LCD Display User Manual

Wokyo 6 PIN

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Model: 6 PIN | Brand: Wokyo

1. PRODUCT OVERVIEW

The Wokyo TF-100 6 PIN Electric Scooter Thumb Throttle with LCD Display is a versatile 2-in-1 unit designed to enhance your electric scooter's control and monitoring capabilities. It integrates both a thumb throttle for speed control and a clear LCD display for real-time data, providing a streamlined user experience.

This device is engineered for durability with a waterproof plug, ensuring reliable performance across various weather conditions. It is compatible with electric scooters that utilize Protocol 2, including models such as Kugoo M4, Kugoo Pro, Vsett, Kaabo, and Dualtron.



Image: The TF-100 Electric Thumb Throttle with LCD Display mounted on an electric scooter handlebar, illustrating its integrated design and clear display.

2. COMPATIBILITY AND IMPORTANT NOTES

This TF-100 6-pin electric thumb throttle operates using Protocol 2. It is specifically designed for use with electric scooters that also adopt Protocol 2. Confirmed compatible models include Kugoo M4, Kugoo Pro, Vsett, Kaabo, and Dualtron electric scooters.

Important: Before purchasing and installing, please verify that your electric scooter's controller uses Protocol 2 and that its cable connector is a 6-pin type. Incompatibility may lead to the product not functioning as intended.



Image: A warning sign emphasizing the product's compatibility with TF-100 system scooters and the need to check system compatibility before purchase.

3. INSTALLATION GUIDE

3.1. Pre-Installation Check

- Ensure your scooter's power is off before beginning installation.
- Confirm the scooter's controller uses Protocol 2 and has a 6-pin connector.
- Gather necessary tools (e.g., Allen wrenches for mounting screws).

3.2. Mounting the Throttle

1. Identify a suitable position on your scooter's handlebar. The throttle is designed for handlebars with a diameter of approximately 2.2 cm (0.87 inches).
2. Loosen the mounting screws on the throttle's clamp.
3. Position the throttle on the handlebar, ensuring the LCD display is easily visible and the thumb lever is comfortably accessible.
4. Tighten the mounting screws securely, but do not overtighten to avoid damaging the handlebar or the throttle unit.



Image: The mounting clamp of the TF-100 throttle, showing its internal diameter of 2.2 cm (0.87 inches) for handlebar compatibility.



Image: Detailed view of the four screws on the mounting bracket, used to secure the throttle to the handlebar.

3.3. Electrical Connection

1. Locate the 6-pin connector cable extending from the TF-100 throttle.
2. Connect this cable to the corresponding 6-pin port on your electric scooter's controller. Ensure the pins align correctly before pushing the connector firmly into place. The waterproof design of the plug helps protect the connection from moisture.

6 pin Meter Front View



Image: Pinout diagram for the 6-pin connector, detailing the function of each wire (HALL Blue, Black(-), Red(+), RT Green, XT Yellow, DS White) for proper electrical connection.



Image: A detailed view of the 6-pin waterproof connector, highlighting its robust design for secure and protected electrical connections.

4. OPERATING INSTRUCTIONS

4.1. Powering On/Off

- To power on the display, press and hold the **Power button** (red button with power symbol) located on the throttle unit.
- To power off, press and hold the **Power button** again until the display turns off.

4.2. Understanding the LCD Display

The integrated LCD display provides essential real-time information for your ride:

- **Speed:** Displays current riding speed (km/h or mph).
- **Battery Level:** Indicates the remaining battery charge.
- **Distance Traveled:** Shows trip distance or total odometer reading.
- **Gear/Mode:** May indicate current gear or riding mode (e.g., Eco, Normal, Sport).

- **Indicator Lights:** Other icons may illuminate for specific functions or warnings.



Image: A close-up view of the TF-100 LCD display, clearly showing the digital speed reading, battery indicator, and trip odometer.

4.3. Accelerating and Adjusting Speed

- To accelerate, gently press the **thumb lever** forward. The further you press, the faster the scooter will go.
- To decelerate, release the thumb lever.
- The throttle provides a convenient and ergonomic way to control your electric scooter's speed with precision.



Image: A detailed view of the thumb lever, which is used to control the scooter's acceleration and speed.

4.4. Mode Button Functionality

The **MODE button** allows you to cycle through different display modes or settings. Short press to switch between display parameters (e.g., Trip distance, Odometer). Long press may enter settings menu (refer to your scooter's main controller manual for specific display settings if applicable).

5. MAINTENANCE

- **Cleaning:** Wipe the display and throttle unit with a soft, damp cloth. Avoid using abrasive cleaners or solvents.
- **Water Resistance:** The unit features a waterproof plug, making it resistant to splashes and light rain. However, avoid submerging the unit in water.
- **Connection Check:** Periodically check the 6-pin connector to ensure it remains securely plugged in and free from debris.
- **Storage:** When not in use for extended periods, store the scooter and throttle in a dry, cool place away from direct sunlight.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display does not turn on.	<ul style="list-style-type: none">Loose or disconnected 6-pin cable.Scooter's main power is off.Faulty unit.	<ul style="list-style-type: none">Check the 6-pin connection to ensure it is secure.Ensure the scooter's main power switch is on.If issues persist, contact customer support.
Throttle not responding.	<ul style="list-style-type: none">Incorrect protocol compatibility.Loose electrical connection.Throttle unit malfunction.	<ul style="list-style-type: none">Verify your scooter's controller uses Protocol 2.Check the 6-pin connection.Contact customer support if the problem continues.
Inaccurate speed/distance readings.	<ul style="list-style-type: none">Incorrect settings in scooter's controller.Sensor issue (less common for integrated unit).	<ul style="list-style-type: none">Consult your scooter's main manual for display calibration or settings adjustments.Ensure the connection is stable.

7. SPECIFICATIONS

Feature	Detail
Model Number	6 PIN (TF-100)
Compatibility	Electric scooters with Protocol 2 (e.g., Kugoo M4/Pro, Vsett, Kaabo, Dualtron)
Voltage Compatibility	24V/36V/48V (as per product title)
Connector Type	6-pin waterproof plug
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Dimensions (L x W x H)	11 x 9.4 inches (approximate, based on product data)
Item Weight	0.2 Pounds
Display Type	LCD (Speed, Battery Level, Distance, Gear/Mode)

36V-48V



6 pin



Image: The TF-100 throttle unit, highlighting its 6-pin connector and indicating compatibility with 36V-48V systems.

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact Wokyo customer service directly through their official channels. Ensure you have your product model number (6 PIN) and purchase details ready when seeking support.

Wokyo is committed to customer satisfaction and aims to provide a positive experience with their products.