

Topyond Topyondods2w34yzc

Topyond Ebike LCD Display User Manual

Model: Topyondods2w34yzc

1. INTRODUCTION

The Topyond Ebike LCD Display is designed to provide essential real-time information for your electric bike or scooter. This display meter allows you to monitor speed, distance traveled, battery level, and other critical performance metrics, enabling informed decisions during your ride. Crafted from high-quality ABS material, it ensures durability and resistance to wear and tear. Its compact design with a 22.5mm diameter ensures broad compatibility and ease of installation across various electric scooter and bike models.

2. SAFETY INFORMATION

- Always ensure the display is securely mounted before riding.
- Do not attempt to disassemble or modify the display, as this may void the warranty and cause damage.
- Keep the display clean and free from excessive moisture. While waterproof, prolonged submersion is not recommended.
- Avoid extreme temperatures, both hot and cold, to ensure optimal performance and longevity.
- If any unusual behavior or error codes appear, refer to the troubleshooting section or contact support.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1 x Topyond Electric Bike LCD Display Meter
- 1 x User Manual

4. PRODUCT OVERVIEW

The Topyond Ebike LCD Display features a clear screen and intuitive button layout for easy operation. Below are images illustrating the display from various angles, highlighting its design and key features.



Front view of the Topyond Ebike LCD Display, showcasing its digital screen and control buttons.



Angled view of the display, providing a perspective of its compact form factor.



Made of premium ABS, waterproof

Simple design, easy to install and operate, convenient to use



Rear view of the display, highlighting the mounting bracket and the cable connection point. The text on the image indicates it is made of premium ABS material, is waterproof, and features a simple design for easy installation and operation.



Close-up of the USB port, which may be used for charging or data transfer depending on the model's functionality.

5. SETUP AND INSTALLATION

The Topyond Ebike LCD Display is designed for easy installation on handlebars with a 22.5mm diameter. Follow these steps to properly install your display:

1. **Choose Location:** Select a suitable position on your ebike's handlebar, typically near the grip, ensuring it does not obstruct braking or shifting.
2. **Mount the Display:** Loosen the screw on the display's mounting bracket. Place the display on the handlebar and tighten the screw until it is secure. Ensure the display is oriented correctly for optimal viewing.
3. **Connect Cables:** Connect the display's cable to the corresponding connector on your ebike's controller or wiring harness. Ensure the 5-pin connector is firmly seated. The line sequence of the label connector is typically: Red (VCC), Black (GND), Blue (TX), Green (RX), Yellow (DS).
4. **Test Functionality:** After installation, turn on your ebike to verify the display powers on and shows information correctly.



The Topyond LCD Display installed on an ebike, demonstrating its placement and integration.

6. OPERATING INSTRUCTIONS

The Topyond Ebike LCD Display provides various functions and settings to enhance your riding experience. Familiarize yourself with the buttons and display information.

6.1. Button Functions

- **Power Button (Middle):** Press and hold to turn the display ON/OFF. Short press to switch between ODO (Odometer), TRIP (Trip Distance), VOL (Voltage), and TIME.
- **'+' Button (Top):** Short press to increase parameter values or navigate menus.
- **'-' Button (Bottom):** Short press to decrease parameter values or navigate menus.
- **Entering Settings:** To enter the settings menu, press and hold the '+' and '-' buttons simultaneously.

6.2. Display Functions (LCD-930 Hand Control Panel)

The display provides comprehensive information at a glance:

- **Speed Display:** Shows current speed (AVG: average speed, MAX: maximum speed).
- **Power Indicator:** Battery level display.
- **Fault Indication:** Displays error codes if issues occur.
- **Total Mileage (ODO):** Cumulative distance traveled.
- **Single Mileage (TRIP):** Distance for the current ride.
- **Single Boot Time (TIME):** Duration of the current ride.
- **Battery Voltage (VOL):** Current battery voltage.
- **DST:** Distance.
- **Endurance:** Estimated remaining range.

6.3. Settings and Parameters (P09-P15 Menu)

To access and modify advanced settings, enter the P09-P15 menu by holding the '+' and '-' buttons. Use '+' and '-' to navigate and change values, and the Power button to confirm or exit.

LCD-930 Hand Control Panel Operation Instruction
2020 Latest Edition-V1.0

ONE. The appearance size and material
The shell of the product is ABS, and the liquid crystal transparent window is imported acrylic with high hardness, whose hardness is equivalent to the tempered glass.

TWO. Working voltage and connection mode
(1) working voltage: DC24V, 36V, 48V, 60V compatibility (instrument selection setting). Other voltages can be customized.
(2) connection mode:
Line sequence of the label connector
Note:The lead wire of some products uses the waterproof connector, and the user cannot see the lead color in the wire harness

Three. Function description:
1. display function
Speed display, power indicator, fault indication, total mileage, single mileage
2. Control, setting up functions
Power switch control, wheel diameter setting, idle automatic hibernation time setting, backlight brightness setting.
Start mode setting, drive mode setting, voltage level setting, controller limit value setting.

3. Communication protocol: UART

All contents of the display screen (full display in boot 15)

Show content introduction

3.1 Battery power and BMS residual power display

3.2 Multifunctional displays area
Total mileage ODO, single mileage TRIP (unit: mile, km), single boot time TIME, battery voltage VOL, DST: endurance

3.3 Speed display area
AVG: average speed, MAX: max speed, SPEED: current speed 单位 Mph, km/h
The speed signal is taken from the Hall signal in the motor and sent to the instrument by the controller. (The time of a single Hall period, unit: 1MS) The instrument will calculate the true speed based on the diameter of the wheel and the signal data (the number of magnetic steel needed by the motor Hall)

3.4 Vehicle power gear adjustment
THL PAS, 0-9 digital display and file bar display;

3.5 Vehicle status icon meaning

4. Setting
P01: Backlight brightness, level 1 darkest, level 3 brightest;
P02: mileage unit, 0: KM; 1: MILE;
P03: Voltage level: 24V, 36V, 48V, 60V, 64V default 36V;
P04: Dormancy time: 0, not dormancy; Other numbers are dormancy times, range: 1-60; Unit minutes;
P05: Help file bit: 0, 3 file mode:
1.5 gear mode:
P06: Wheel diameter: unit, inch; Precision: 0.1;
This parameter is related to the meter display speed and needs to be entered correctly;
P07: Speed gauge magnetic steel number: range: 1-100;
This parameter is related to the meter display speed and needs to be entered correctly;
If it is an ordinary hub motor, direct input of magnetic steel;
If it is a high-speed motor, it is also necessary to calculate the deceleration ratio, and the input data = the number of magnetic steel × deceleration ratio;
For example: number of motor magnets 20, deceleration ratio 4.3: input data is: 86 = 20 × 4.3
P08: Speed limit: range 0-100km / H, 100 means no speed limit,
The input data here represents the maximum operating speed of the vehicle: for example, input 25, indicating that the maximum operating speed of the vehicle will not exceed 25km/h; Drive speed maintained at set value.
Error: ± 1km/h; (Speed limit for power and steering)
Note: The value here is based on kilometers. When the unit setting is converted from kilometers to miles, the speed value of the display interface automatically converts to the correct mile value, but the speed limit value set at this menu under the mile interface is not converted. Is inconsistent with the actual speed limit of the mile speed;

Detailed instructions for the LCD-930 display, including display layout, function descriptions, and parameter settings.

- **P01: Backlight Brightness:** Adjusts display backlight (Level 1-3).
- **P02: Mileage Unit:** 0 for KM, 1 for MILE.
- **P03: Voltage Level:** Sets the battery voltage (24V, 36V, 48V, 60V). Default is 36V.
- **P04: Dormancy Time:** Sets the time until the display enters sleep mode (0: no dormancy, 1-60 minutes).
- **P05: Help File:** 0, 3 file mode.
- **P06: Wheel Diameter:** Sets the wheel diameter in inches for accurate speed and distance readings.

- **P07: Speed Gauge Magnetic Steel Number:** Sets the number of magnetic steel poles for the speed sensor.
- **P08: Speed Limit:** Sets the maximum speed (0-100km/h).
- **P09: Zero Start/Non-Zero Start:** 0 for zero start, 1 for non-zero start.
- **P10: Drive Mode:** 0 for power drive, 1 for electric drive (throttle), 2 for power drive and electric drive coexistence.
- **P11: Help Sensitivity Setting Range:** 1-24.
- **P12: Help Start Intensity Setting Range:** 0-5.
- **P13: Power Magnetic Steel Disk Type Setting:** 5, 8, 12 Magnetic Steel Types.
- **P14: Controller Limit Value Set Default:** 12A range: 1-20A.
- **P15: Controller Under Voltage.**

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Topyond Ebike LCD Display.

- **Cleaning:** Use a soft, damp cloth to wipe the display screen and body. Avoid abrasive cleaners or solvents that could damage the ABS material or screen.
- **Water Exposure:** While the display is waterproof, avoid high-pressure water jets directly on the unit. Dry any moisture promptly after exposure to rain.
- **Storage:** When not in use for extended periods, store the ebike and display in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically check the connection cables for any signs of wear, fraying, or damage. Ensure connections remain secure.

8. TROUBLESHOOTING

If you encounter issues with your Topyond Ebike LCD Display, refer to the common problems and their solutions below. The display may show specific error codes to help diagnose the problem.

8.1. Vehicle Status Code Meanings

Status Code	State Meaning	Remarks
E00	Normal	No error detected.
E06	Battery under voltage	Check battery charge level.
E07	Motor failure	Inspect motor connections and functionality.
E08	Turn mal-functioning	Check throttle or pedal assist sensor.

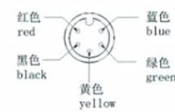
Status Code	State Meaning	Remarks
E09	Controller failure	Inspect controller connections and unit.
E10	Meter data receiver failure	Check display cable connection.
E11	Meter data sender failure	Check display cable connection.

Note: P09-P15 menu is only valid in communication state
P09: zero start, non-zero start setting, 0: zero start; 1: Non-zero start;
P10: The drive mode is set to 0: Power Drive(how much power is output is determined by the power file bit, and the switch is invalid).
1: Electric drive(by turning the handle drive, when the power file bit is invalid).
2: Power Drive and Electric Drive Coexistence
P11: Help sensitivity setting range: 1-24;
P12: Help start intensity setting range: 0-5;
P13: Power Magnetic Steel Disk Type Setting 5, 8, 12 Magnetic Steel Types
P14: Controller limit value set default 12A range: 1-20A
P15: Controller under voltage
P16: ODO zero setting length press key 5 seconds ODO zero
P17: 0: No enabling cruising, 1: enabling cruising; Automatic cruise optional(valid for protocol 2 only)
P18: Display speed ratio adjustment range: 50% ~ 150%,
P19: 0 power bit, 0: 0, 1: does not include 0
P20: 0:2 Protocol 1.5 S Protocol 2: Standby 3: Standby
P21: 0: There are several gears in the throttle, 1:The throttle doesn't have a couple of gears, it's full speed all the time
P22: 0: No E-ABS braking, 1: E-ABS regenerative braking when power off brake
Four \ Key Introduction:
1 \ Under shutdown, long press **key** is boot; after boot, **key** Boot key, interface switching between ODO, TRIP, VOL, TIME.
2 \ Boot state, long press **key** is turn off, short press **key**, Help file
+ 1, short press **key**, help file - 1;
3 \ long press **key** - **key** key enter Mode Settings
Parameter value modification: under a parameter state, short press **key**
Switch Parameters, short press **key** increase in value, short press **key** reduces the value, and when it's modified, short press **key** Switch to the next parameter and save the previous parameter value; Parameters modified long Press again. **key** + **key** key Exit the settings interface. If not, wait 8 seconds to automatically exit and save the parameters.
Note: Due to the upgrade of the company's products, it is possible that the contents of the product section you get will be different from the specifications, but it will not affect your normal use.
Note: due to the upgrade of the company's products, the content of the product will be different from the specifications, but it will not affect your normal use.

Vehicle Status Code Meaning:

Status Code	State Meaning	Remarks
E00	Normal	
E06	Battery under voltage	
E07	Motor failure	
E08	tum malfunctioning	
E09	Controller failure	
E10	Meter data receiver failure	
E11	Meter data sender failure	

Line sequence of the label connector



Instrument Outlet

Table: Line sequence of the label connector table

Order of line	Color of line	Function
1	Black (GND)	Meter earth wire
2	Green (RX)	Meter data receiver
3	Blue (TX)	Meter data sender
4	Yellow (DS)	Instrument power cord
5	Red (VCC)	Controller power line

Reference image for vehicle status codes and connector wiring diagram.

8.2. General Troubleshooting Tips

- **Display Not Turning On:** Ensure the battery is charged and properly connected. Check all cable connections between the display and the ebike's system.
- **Incorrect Readings:** Verify that the wheel diameter (P06) and magnetic steel number (P07) settings are correctly configured in the display's parameters.
- **Buttons Unresponsive:** Check for any physical obstructions or debris around the buttons. If the issue persists, a factory reset (if available) or professional inspection may be needed.

9. SPECIFICATIONS

Detailed technical specifications for the Topyond Ebike LCD Display:

Feature	Specification
---------	---------------

Feature	Specification
Item Type	Electric Bike LCD Display Meter
Material	ABS
Weight	Approx. 0.1 Kilograms (95g/3.35oz)
Color	Black
Diameter (for installation)	Approx. 22.5mm / 0.89in
Voltage Compatibility	Default 36V, Universal for 24V, 36V, 48V, 60V
Item Package Dimensions (L x W x H)	4.29 x 3.39 x 2.8 inches
Manufacturer	Topyond
Part Number	Topyondods2w34yzc
Date First Available	January 22, 2024

Product Size:

Diameter: Approx. 22.5mm/0.89in

(Manual Measurement, Slight Error May Exist)



Image illustrating the product's diameter specification.

10. WARRANTY AND SUPPORT

Topyond is committed to providing high-quality products. For any questions, technical assistance, or warranty claims, please refer to the contact information provided with your purchase or visit the official Topyond store on Amazon. Please retain your proof of purchase for warranty purposes.