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Funfob P3C

Funfob P3C LCD Display User Manual

For Electric Bikes and Scooters

1. Introduction

Thank you for choosing the Funfob P3C LCD Display. This manual provides essential information for the proper installation, operation, and maintenance of your display unit. Please read this manual thoroughly before use to ensure optimal performance and safety.
The Funfob P3C is a versatile LCD dashboard designed for electric bikes and scooters, offering clear real-time data such as speed, battery level, and various riding parameters. It supports multiple voltage systems (24V, 36V, 48V, 60V) and connects via a 5-pin UART #2 protocol.

2. Safety Information

- Always ensure the power is off before installing or disconnecting the display.
- Do not attempt to open or modify the display unit. This may void the warranty and cause damage.
- Keep the display away from extreme temperatures, direct sunlight for prolonged periods, and corrosive substances.
- Avoid exposing the display to heavy rain or immersion in water. While designed for outdoor use, excessive moisture can cause damage.
- Ensure all connections are secure to prevent intermittent operation or damage.
- Consult a qualified technician if you are unsure about any installation or troubleshooting steps.

3. Package Contents

Your Funfob P3C LCD Display package should contain the following item:

- 1 x Funfob P3C LCD Instrument Display

4. Product Features

The Funfob P3C LCD Display offers a range of features to enhance your riding experience:

- **Display Type:** High-contrast LCD screen.
- **Connectivity:** UART #2 Protocol, 5-PIN connector.

- **Voltage Compatibility:** Supports 24V, 36V, 48V, and 60V systems.
- **Displayed Functions:** Speed, PAS (Pedal Assist System) Level, Trip Distance (TRIP), Odometer (ODO), Walk Mode, Cruise Control, Miles/Kilometers unit selection, Error Alarm, Parameter Setting, Battery Level indicator.
- **Installation:** Designed for handlebar mounting with a Ø22.2mm diameter.
- **User Interface:** Intuitive button controls for easy navigation and setting adjustments.

5. Setup and Installation

Follow these steps to properly install your Funfob P3C LCD Display:

5.1 Mounting the Display

1. Identify a suitable location on your electric bike or scooter handlebar. The display is designed for handlebars with a Ø22.2mm diameter.
2. Loosen the mounting bracket screws on the back of the display.
3. Position the display on the handlebar and tighten the screws securely. Ensure the display is stable and does not rotate freely.



Figure 1: Funfob P3C LCD Display mounted on a handlebar, showing its compact design and secure attachment.

5.2 Electrical Connection

1. Locate the 5-PIN connector cable extending from your Funfob P3C display.
2. Ensure your electric bike or scooter's controller has a compatible 5-PIN UART #2 protocol connector.

3. Carefully align the pins and connect the display cable to the controller's port. Ensure the connection is firm and fully seated.
4. Verify that your vehicle's power supply voltage (24V, 36V, 48V, or 60V) is compatible with the display. The display automatically adapts to the detected voltage.



Figure 2: Side view of the Funfob P3C LCD Display, highlighting the 5-PIN connector for electrical connection and an integrated USB port.

6. Operating Instructions

The Funfob P3C LCD Display features intuitive button controls for easy operation.



Figure 3: Front view of the Funfob P3C LCD Display, illustrating the main screen with speed, battery level, PAS level, and odometer readings.

6.1 Power On/Off

- Press and hold the power button (usually the middle button) to turn the display on or off.

6.2 Displayed Information

The display provides real-time information including:

- **Speed:** Current riding speed.
- **PAS Level:** Current Pedal Assist System level (if applicable).
- **TRIP:** Distance traveled for the current trip.
- **ODO:** Total accumulated distance.
- **Battery Level:** Graphical and/or numerical indication of remaining battery charge.
- **Error Alarm:** Displays error codes if a system fault is detected.

6.3 Function Buttons

The display typically features three buttons:

- **Up Button (+):** Used to increase values, change PAS levels, or navigate menus.
- **Down Button (-):** Used to decrease values, change PAS levels, or navigate menus.
- **Power/Mode Button:** Used to power on/off, switch display modes (e.g., TRIP/ODO), or enter/exit settings.

6.4 Advanced Settings (Parameter Setting)

To access advanced settings (e.g., unit selection for Miles/Km, wheel diameter, speed limit, etc.), typically press and hold a combination of buttons (e.g., Up and Down buttons simultaneously) for a few seconds while the display is on. Refer to your electric bike/scooter controller's manual for specific parameter definitions and recommended values.

7. Care and Maintenance

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Do not use abrasive cleaners, solvents, or excessive water.
- **Storage:** When not in use for extended periods, store the display in a dry, cool place, away from direct sunlight.
- **Connections:** Periodically check all electrical connections to ensure they are clean and secure.
- **Avoid Impact:** Protect the display from physical shocks or drops, which can damage the screen or internal components.

8. Troubleshooting

If you encounter issues with your Funfob P3C LCD Display, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display does not power on	No power from battery; Loose connection; Faulty display/controller.	Check battery charge. Ensure all cables are securely connected. If problem persists, consult a technician.
No speed reading	Speed sensor issue; Loose sensor connection.	Check the speed sensor and its wiring. Ensure the sensor is correctly positioned.
Error code displayed	System fault detected by the controller.	Refer to your electric bike/scooter controller's manual for specific error code meanings and troubleshooting steps.
Inaccurate readings	Incorrect parameter settings (e.g., wheel diameter).	Access parameter settings and verify that all values, especially wheel diameter, are correctly configured.

If you are unable to resolve an issue using the above steps, please contact your dealer or a qualified service technician.

9. Specifications

Detailed technical specifications for the Funfob P3C LCD Display:

Feature	Specification

Feature	Specification
Brand	Funfob
Model Number	P3C
Display Type	LCD
Color	Black
Item Weight	80 Grams
Power Supply Voltage	24V / 36V / 48V / 60V (Auto-sensing)
Connectivity Technology	UART #2 (5-PIN)
Sensor Type	Speed Sensor
Mounting Type	Handlebar Mount
Installation Diameter	Ø22.2mm
User Interface Input	Keys (Buttons)
Included Components	1 x P3C instrument display



Figure 4: Back view of the Funfob P3C LCD Display, indicating the model number (LCD-FC-P3C) and voltage rating (36V shown as an example).

10. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your electric bike or scooter, or contact the retailer from whom you purchased this product. Keep your proof of purchase for warranty claims.

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