

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- > [mGYDY](#) /
- > [mGYDY P3C Electric Bike LCD Display Meter User Manual](#)

## mGYDY P3C

# mGYDY P3C Electric Bike LCD Display Meter User Manual

Model: P3C | Brand: mGYDY

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your mGYDY P3C Electric Bike LCD Display Meter. Please read this manual thoroughly before use to ensure proper function and safety.



Figure 1: mGYDY P3C LCD Display Meter

The mGYDY P3C LCD Display Meter provides essential riding data including speed, mileage, and battery status, designed for electric bikes and scooters.

## 2. SPECIFICATIONS

<b>Model</b>	P3C
<b>Functions</b>	Speed, PAS Level, Trip/ODO, Headlight, Walk Mode, Cruise Control, Mile/Km Unit, Error Alarm, Parameter Settings, Battery Level
<b>Protocol</b>	UART #2
<b>Installation Diameter</b>	ø22.2 mm
<b>Supply Voltage</b>	24V / 36V / 48V / 60V
<b>Dimensions</b>	87.8mm x 51.3mm x 13.4mm
<b>Connector Style</b>	6PIN (Waterproof wire round mouth)
<b>Color</b>	Black
<b>Material</b>	ABS Plastic
<b>USB Charging Output</b>	5V / 500mA
<b>Waterproof Rating</b>	IP65

# IP65 Grade Waterproof



Figure 2: IP65 Waterproof Rating

The display is designed with an IP65 waterproof rating, ensuring durability in various weather conditions.

## 3. SETUP AND INSTALLATION

### 3.1 Package Contents

- 1 x mGYDY P3C Instrument Display

### 3.2 Mounting the Display

1. Ensure your handlebar diameter is  $\varnothing 22.2$  mm for proper fitment.
2. Carefully position the display on your handlebar in a location that provides clear visibility and easy access to buttons.
3. Secure the display using the provided mounting hardware (if applicable, not explicitly mentioned but implied for installation).

### 3.3 Wiring Connections

The P3C display uses a 6PIN waterproof connector for connection to your e-bike's controller system. Ensure the power to your e-bike is OFF before making any connections.



Figure 3: 6PIN Connector Wiring Diagram

This diagram illustrates the pinout for the 6PIN waterproof connector. Match the wire colors to their corresponding functions for correct installation.

- **Red (D+):** Power positive
- **Blue (K):** Control line
- **White (Light):** Headlight control
- **Black (GND):** Ground
- **Green (RX):** Receive data (UART)
- **Yellow (TX):** Transmit data (UART)

Connect the 6PIN male connector from the display to the corresponding female connector on your e-bike's wiring harness. Ensure a secure and waterproof connection.

## 4. OPERATION

### 4.1 Display Overview

## Give All Metrics You Need

Show every data you need in one page



Figure 4: Display Area Functions

The display provides a clear overview of key riding metrics. The main areas include battery level, current speed, mileage (ODO/TRIP), PAS level, and headlight indicator.

### 4.2 Basic Functions

- **Power On/Off:** Press and hold the power button (center button) to turn the display on or off.
- **PAS Level Adjustment:** Use the '+' and '-' buttons to increase or decrease the Pedal Assist System (PAS) level.
- **Headlight Control:** A dedicated button or a long press of a specific button (refer to your e-bike's controller manual if not on display) activates/deactivates the headlight. The display will show a headlight icon when active.
- **Data Display:** The display shows real-time data including:
  - Driving Speed
  - Single Mileage (TRIP)
  - Accumulated Mileage (ODO)
  - Riding Time
  - Steering Gear Boost
  - Engine Power and Temperature
  - Battery Voltage and Charging Status

- Braking Status
- Ambient Temperature

### **4.3 Parameter Settings**

The display allows for various user parameter settings. Accessing and adjusting these settings typically involves a combination of button presses (e.g., long-pressing two buttons simultaneously). Refer to your e-bike's main controller manual for specific instructions on entering and navigating the settings menu.

Adjustable parameters may include:

- Motor parameters
- Speed measurement parameters
- Speed limit parameters
- Power parameters
- Auxiliary control parameters
- Minimum adjustment voltage
- Maximum current parameters

The system automatically saves multi-channel sub-gear settings, restoring the last stable state upon power-on.

### **4.4 Data Viewing and Management**

Users can view and delete historical driving data. This includes single or cumulative driving time, mileage, single maximum speed, and average speed. Consult your e-bike's controller manual for specific button sequences to access and manage this data.

### **4.5 USB Charging Function**

The P3C display features a USB charging port (5V / 500mA) for convenient charging of mobile phones or other small electronic devices during your ride.



Figure 5: USB Charging Interface

The integrated USB port allows for emergency charging of mobile devices, enhancing convenience during your rides.

## 5. MAINTENANCE

- **Cleaning:** Wipe the display screen with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the screen or casing.
- **Water Exposure:** While the display is IP65 waterproof, avoid submerging it in water. Ensure the USB port cover (if present) is securely closed when not in use, especially in wet conditions.
- **Connection Check:** Periodically check that the 6PIN connector is securely attached and free from dirt or corrosion.
- **Storage:** When not in use for extended periods, store the e-bike and display in a dry, cool place away from direct sunlight.

## 6. TROUBLESHOOTING

### 6.1 E10 Error Code

If the display shows "E10" after connecting, this indicates a communication issue. There are two primary possibilities:

1. **Incompatible Communication Protocol:** The communication protocol between the P3C display and your e-bike's controller may be incompatible. Ensure your controller supports the UART #2 protocol.
2. **Vehicle System Malfunction:** The overall condition of the vehicle may be poor, potentially affecting components such as the boost controller, throttle knob, or motor. These issues can lead to communication failure with the display.

#### **Recommended Actions:**

- Verify the communication protocol compatibility with your e-bike's controller manufacturer.
- Inspect all connections for looseness or damage.
- If the issue persists, consult a qualified e-bike technician to diagnose potential problems with the controller, motor, or other related components.

### **6.2 General Troubleshooting Tips**

- **Display Not Powering On:** Check all power connections, including the 6PIN connector, to ensure they are secure. Verify that your e-bike's battery is charged and providing power.
- **Incorrect Speed/Mileage Readings:** Ensure the wheel circumference setting in the display's parameters is correctly configured for your e-bike.
- **Buttons Unresponsive:** Check for any physical obstructions or damage to the buttons. If the issue persists, a factory reset (if available and documented in your controller manual) might be necessary, or contact support.

## **7. WARRANTY INFORMATION**

The mGYDY P3C Electric Bike LCD Display Meter comes with a **1 Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover:

- Damage caused by improper installation or use.
- Damage caused by accidents, abuse, neglect, or unauthorized modifications.
- Normal wear and tear.

For warranty claims, please retain your proof of purchase and contact the seller or manufacturer directly.

## **8. SUPPORT**

For further assistance, technical support, or inquiries regarding your mGYDY P3C Electric Bike LCD Display Meter, please contact your retailer or the mGYDY customer service department.

Please have your product model (P3C) and purchase information ready when contacting support.