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Powallon EKD01

Powallon EKD01 E-Bike Display User Manual

Model: EKD01

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Powallon EKD01 E-Bike Display. The EKD01 is designed for Bafang mid-drive motor eBike conversion kits, supporting 36V, 48V, and 52V systems. It features a 2.4-inch IPS HD screen, Bluetooth connectivity, and a Type-C charging port.

2. SAFETY INFORMATION

- Always ensure the display is securely mounted before riding.
- Do not attempt to open or modify the display unit, as this may void the warranty and cause damage.
- Keep the display clean and dry. While it has an IPX5 waterproof rating, avoid prolonged exposure to heavy rain or submersion.
- Operate the display buttons only when it is safe to do so, without distracting from riding.
- Use the provided or compatible cables for connection and charging.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- EKD01 Display Unit

4. SETUP AND INSTALLATION

4.1 Mounting the Display

The EKD01 display is designed to fit handlebars with diameters between 22.2mm and 25.4mm. Choose a position on your handlebar that allows for clear visibility and easy access to the control buttons without obstructing your view or other controls.

1. Loosen the mounting screw on the display bracket.
2. Position the display on your handlebar.

3. Tighten the mounting screw until the display is secure and does not rotate freely. Do not overtighten.



Image: The Powallon EKD01 E-Bike Display mounted on a bicycle handlebar, showcasing its compact design and accessible buttons.

4.2 Electrical Connection

Connect the 5PIN Female M5 connector from the EKD01 display to the corresponding male connector on your Bafang mid-drive motor system. Ensure the connection is firm and secure to prevent accidental disconnection during operation.



Image: Various angles of the EKD01 display, highlighting its physical features including the mounting bracket and the USB-C port on the side.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press and hold the power button (usually the middle button) for a few seconds to turn the display on or off.

5.2 Display Information

The 2.4-inch IPS HD screen provides comprehensive riding data:

- **Real-time Speed:** Current riding speed.
- **PAS Level:** Current Pedal Assist System level (0-9).
- **Battery Level:** Remaining battery charge.
- **Trip Distance:** Distance covered in the current ride.
- **Total Mileage (Odometer):** Total distance covered by the e-bike.
- **Average Speed:** Average speed of the current ride.
- **Headlight Indicator:** Shows if the e-bike's headlight is on.
- **Error Codes:** Displays specific codes if the motor encounters issues.

Smart Riding Display Expert - EKD01



Image: The EKD01 display screen showing various metrics such as speed, battery level, PAS level, trip distance, and odometer, with labels indicating each data point.

5.3 Changing PAS Levels

Use the '+' and '-' buttons on the display to adjust the pedal assist level from 0 to 9. Level 0 provides no motor assistance, while Level 9 provides maximum assistance.

5.4 Bluetooth Connectivity

The EKD01 display supports Bluetooth for smartphone pairing. Download the companion app (e.g., BIKEEGO App) to access additional features such as navigation, motor lock/unlock, and advanced settings adjustments. Refer to the app's instructions for detailed usage.

5.5 Type-C Charging Port

A Type-C charging port is integrated into the display unit, allowing you to charge your smartphone or other compatible devices while riding. Use a standard Type-C cable for this function.

Compact Design, Strong Build

Every Detail Matters



Image: A side profile of the EKD01 display, highlighting the Type-C charging port for external device charging.

6. ADVANCED SETTINGS

Accessing advanced settings typically requires a factory-set password. This password is provided by the manufacturer or can be found in the comprehensive manual that came with your Bafang motor kit. These settings allow for customization of various parameters.

6.1 Display Settings

Navigate to 'Display Setting' to adjust units (Metric/Imperial), auto-off time, trip reset options, and backlight brightness (4

levels available).

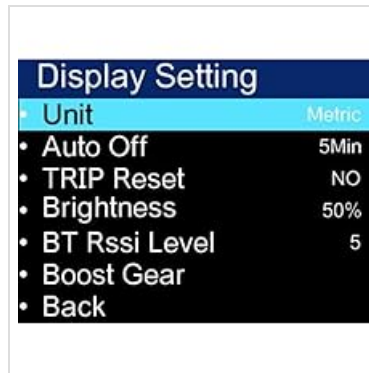


Image: The 'Display Setting' menu on the EKD01 screen, showing options for unit selection, auto-off timer, trip reset, and brightness adjustment.

6.2 Information Settings

Under 'Information', you can view or adjust parameters such as wheel size, speed limit, display info, battery style, battery level origin, and error codes.

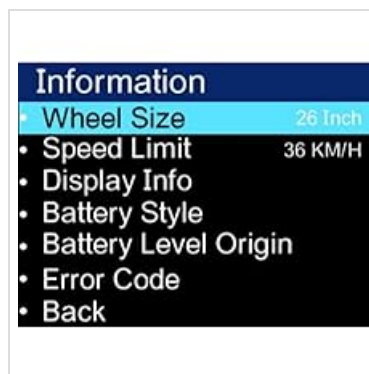


Image: The 'Information' menu on the EKD01 screen, displaying settings for wheel size, speed limit, and battery information.

6.3 Password Protection

The display includes a user-settable startup password to prevent unauthorized use of your e-bike. You can set or change this password within the settings menu. If the password is forgotten, a hidden reset function allows you to restore factory settings.

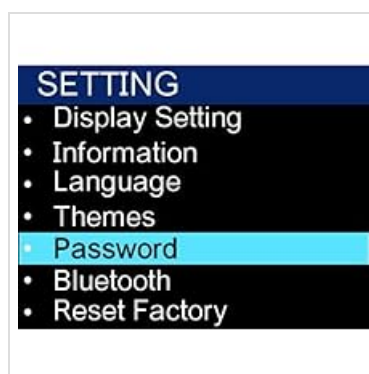


Image: The 'SETTING' menu on the EKD01 screen, with the 'Password' option highlighted for security configuration.

6.4 Language Settings

The display supports multiple languages. Navigate to the 'Language' option within the settings menu to select your preferred language.

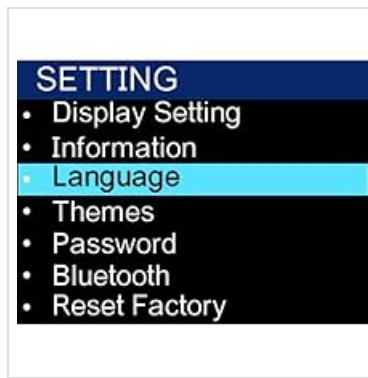


Image: The 'SETTING' menu on the EKD01 screen, with the 'Language' option highlighted for selection.

7. MAINTENANCE

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the screen or casing.
- **Water Resistance:** The EKD01 has an IPX5 waterproof rating, meaning it is protected against low-pressure water jets from any direction. It is resistant to splashes and light rain but should not be submerged in water. Ensure the Type-C port cover is properly sealed when not in use.
- **Storage:** When not in use for extended periods, store the e-bike and display in a dry, temperate environment.

8. TROUBLESHOOTING

If you encounter issues with your EKD01 display, refer to the following common problems and solutions:

- **Display Not Turning On:**
 - Check if the battery is charged.
 - Ensure all electrical connections, especially the 5PIN M5 connector, are secure.
- **No Speed Reading:**
 - Verify the speed sensor is correctly installed and functioning.
 - Check the wheel size setting in the display's 'Information' menu.
- **Motor Not Assisting:**
 - Ensure the PAS level is set above 0.
 - Check for any error codes displayed on the screen and consult your Bafang motor manual for their meaning.
 - Verify all motor connections are secure.
- **Bluetooth Connectivity Issues:**
 - Ensure Bluetooth is enabled on your smartphone and the display.
 - Try restarting both the display and your smartphone.
 - Ensure you are using the correct companion app.

For persistent issues or error codes not listed, please contact customer support.

9. SPECIFICATIONS

Brand	Powallon
Model Name	EKD01
Screen Size	2.4 Inches
Display Type	LCD
Product Dimensions	3.39"L x 1.99"W x 0.5"H
Item Weight	0.12 Kilograms
Connectivity Technology	Bluetooth, USB
International Protection Rating	IPX5
Mounting Type	Handlebar Mount
Human Interface Input	Buttons
Material	ABS

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The Powallon EKD01 E-Bike Display comes with a 30-day return policy, 90-day replacement warranty, and lifetime technical guidance. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your EKD01 display, please contact Powallon customer support through the retailer where you purchased the product or visit the official Powallon website for contact details.