7 USER MANUAL FOR DP E171.CAN

CONTENT

7.1 IMPORTANT NOTICE

- If the error information from the display cannot be corrected according to the instructions, please contact your retailer.

- The product is designed to be waterproof. It is highly recommended to avoid submerging the display under water.

- Do not clean the display with a steam jet, high-pressure cleaner or water hose.

- Please use this product with care.

- Do not use thinners or other solvents to clean the display. Such substances can damage the surfaces.

- Warranty is not included due to wear and normal use and aging.

7.2 INTRODUCTION OF DISPLAY

- Model: DP E171.CAN

- The label marking is as follow:

Note: Please keep the QR code label attached to the display cable. The information from the Label is used for a later possible software update.

7.3 PRODUCT DESCRIPTION

7.3.1 Specifications

- Operating temperature: -20℃~45℃
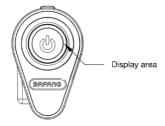- Storage temperature: -20℃~60℃
- Waterproof: IPX5
- Bearing humidity: 30%-70% RH

7.3.2 Functional Overview

- Battery capacity indicator
- Switch on and off
- Indication and selection of support levels
- Control of lighting system
- Indication for error messages

7.4 DISPLAY INFORMATION

The display area is indicated by RGB lights, including the support level, battery capacity and error indication.

Display area

- **Display of Support Level**

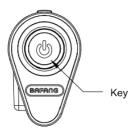 It shows the current support level of 1-3.

- **Display of Battery Capacity**

  The RGB light indicates the current battery capacity. Under the state of support level, if there is no operation within 5s, the screen will switch to display the battery capacity.

- **Display of Error Code**

  The RGB light flashes at a frequency of 1Hz.

7.5 KEY DEFINITION

DP E171.CAN has a single button, which achieves to power on and off the machine, select the support levels, and switch on and off the headlight.
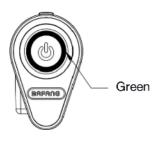

Key

7.6 NORMAL OPERATION

7.6.1 Switching the System ON/OFF

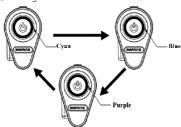Press and hold ⏻ (>2S) on the display to turn on the system.

Press and hold ⏻ (>2S) again to turn off the system.

In the off state, the leakage current is less than 1uA.

Green

7.6.2 Selection of Support Levels

When the display is turned on, press ⏻ (<0.5S) to switch the support levels and change the output power of the motor. The default level is level 1-3. The lowest level is 1, the highest level is 3.

Cyan   Blue   Purple

level 1- Cyan;   level 2- Blue;   level 3- Purple

7.6.3 Headlights / backlighting

ON: Double click ⏻ when the light is off, and the controller will turn on the lights.

OFF: Double click ⏻ when the light is on, and the controller will turn off the light.

(After turning on the headlight, the brightness of DP will decrease, and vice versa.)

7.6.4 Battery Capacity Indication

Capacity Range	Color
40% < C ≤ 100%	Green
20% ≤ C ≤ 40%	Yellow
5% ≤ C < 20%	Red
<5%	Flashing Red

The current battery capacity is displayed by default upon powering on. Press ⏻ (<0.5S) to display the current level, and short press again to switch the level.

Under the state of support level, if there is no operation within 5s, the screen will switch to display the battery capacity.

7.6.5 Bluetooth Function

DP E171.CAN can work with App (BAFANG GO) via Bluetooth, and all information can be displayed on the smart phone, such as bicycles, battery, sensor, controller and display.

The default name of Bluetooth is DP E171. CAN.

7.7 ERROR CODE DEFINITION

ℹ️ The display can show the errors of a pedelec. When the fault is detected, the RGB lights will flash at a frequency of 1 Hz. The flashing blue light indicates the tens digit of the error code, while the flashing cyan light indicates the unit digit. For example:

Error code 25 :

The blue light flickers for 2 times, and the cyan light flickers for 5 times.

Note: Please read carefully the description of the error code. When the error code appears, please first restart the system. If the problem is not eliminated, please contact your dealer or technical personnel.

Error	Declaration	Troubleshooting
04	The throttle has fault.	1. Check whether the connector of the throttle are correctly connected. 2. Disconnect the throttle, if the problem still occurs, please contact your retailer.
05	The throttle is not back in its correct position.	Check the throttle can adjust back into its correct position, if the situation does not improve, please change to a new throttle.
07	Overvoltage protection	1. Remove the battery. 2. Re-Insert the battery. 3. If the problem persists, please contact your retailer.
08	Error with the hall sensor signal inside the motor	Please contact your retailer.
09	Error with the Engine phases	Please contact your retailer.
10	The temperature inside the engine has reached its maximum protection value	1. Turn off the system and allow the Pedelec to cool down. 2. If the problem persists, please contact your retailer.
11	The temperature sensor inside the motor has an error	Please contact your retailer.
12	Error with the current sensor in the controller	Please contact your retailer.
13	Error with the temperature sensor inside of the battery	Please contact your retailer.

Error	Declaration	Troubleshooting
14	The protection temperature inside the controller has reached its maximum protection value	1. Allow the pedelec to cool down and restart the system. 2. If the problem still occurs, please change the controller or contact your supplier.
15	Error with the temperature sensor inside the controller	Please contact your retailer.
21	Speed sensor Error	1. Restart the system 2. Check that the magnet attached to the spoke is aligned with the speed sensor and that the distance is between 10 mm and 20 mm. 3. Check that the speed sensor connector is connected correctly. 4. If the error still exists, please contact your retailer.
25	Torque signal Error	1. Check that all connections are connected correctly. 2. If the error still exists, please contact your retailer.
26	Speed signal of the torque sensor has an error	1.Check the connector from the speed sensor to make sure it is connected correctly. 2.Check the speed sensor for signs of damage. 3.If the problem still exists, please contact your retailer.
27	Overcurrent from controller	Please contact your retailer.
30	Communication problem	1. Check all connections are correctly connected. 2. If the error persists, please contact your retailer.
33	Brake signal has an error (If brake sensors are fitted)	1. Check all connectors. 2. If the error still exists, please contact your retailer.
35	Detection circuit for 15V has an error	Please contact your retailer.
36	Detection circuit on the keyboard has an error	Please contact your retailer.

Error	Declaration	Troubleshooting
37	Controller WDT circuit is faulty	Please contact your retailer.
38	Sensor WDT circuit is faulty	Please contact your retailer.
41	Total voltage from the battery is too high	Please contact your retailer.
42	Total voltage from the battery is too low	Please contact your retailer.
43	Total power from the battery cells is too high	Please contact your retailer.
44	Voltage of the single cell is too high	Please contact your retailer.
45	Temperature from the battery is too high	Please contact your retailer.
46	The temperature of the battery is too low	Please contact your retailer.
47	SOC of the battery is too high	Please contact your retailer.
48	SOC of the battery is too low	Please contact your retailer.
61	Gear shift defects.	Please contact your retailer.
62	Gear shift cannot release.	Please contact your retailer.
71	Electronic lock is jammed	Please contact your retailer.
81	Bluetooth module has an error	Please contact your retailer.