

# **BAFANG DP E171.CAN Display User Manual**

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7 USER MANUAL FOR DP E171.CAN

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**DISPLAY** 

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#### **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.
- If the error information from the display cannot be corrected according to the instructions, please contact your retailer.
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#### INTRODUCTION OF DISPLAY

• Model: DP E171.CAN



• The label marking is as follow:



DPC10K10201.1 PD2526051305 DP C10.U 2.0 00AF8Q5120001

**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.

# PRODUCT DESCRIPTION

# 7.3.1 Specifications

• Operating temperature: -20°C~45 °C

• Storage temperature: -20°C~60 °C

• Waterproof: IPX5

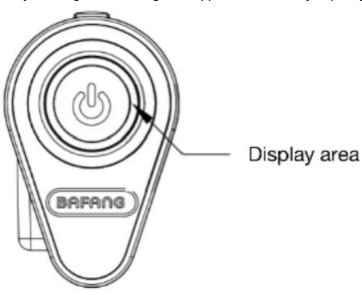
• Bearing humidity: 30%-70% RH

#### 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

#### **DISPLAY INFORMATION**

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



#### Display of Support Level

It shows the current support level of 1-3.

#### · Display of Battery Capacity

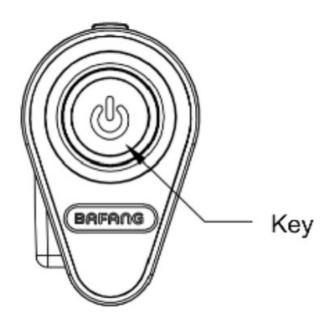
The RGB light indicates the current battery capacity. Under the state of support level, if there is no operation within 5s, the screen will switch to display the battery capacity.

#### • Display of Error Code

The RGB light flashes at a frequency of 1Hz.

#### **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.



#### **NORMAL OPERATION**

# 7.6.1 Switching the System ON/OFF

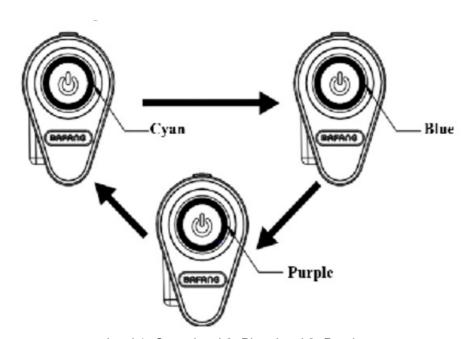
Press and hold (>2S) on the display to turn on the system.

Press and hold (>2S) again to turn off the system. In the off state, the leakage current is less than 1uA.



# 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.



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

# 7.6.3 Headlights / backlighting

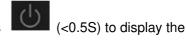
**ON:** Double click when the light is off, and the controller will turn on the lights.

**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 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.

#### **ERROR CODE DEFINITION**

The display can show the errors of a pedaled. 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
4	The throttle has fault.	<ol> <li>Check whether the connector of the throttle are correctly connected.</li> <li>Disconnect the throttle, if the problem still occurs, please contact your retailer.</li> </ol>
5	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 chang e to a new throttle.
7	Overvoltage protection	<ol> <li>Remove the battery.</li> <li>Re-Insert the battery.</li> <li>If the problem persists, please contact your retailer.</li> </ol>
8	Error with the hall sensor signal inside the m otor	Please contact your retailer.
9	Error with the Engine phases	Please contact your retailer.
10	The temperature inside the engine has reac hed its maximum protection value	<ol> <li>Turn off the system and allow the Pedaled to cool dow n.</li> <li>If the problem persists, please contact your retailer.</li> </ol>

14 lier has reached its maximum protection value  2. If the problem still occurs, please change the controller ror contact your retailer.  2. If the problem still occurs, please change the controller ror contact your retailer.  2. If the problem still occurs, please change the controller ror contact your retailer.  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.  2. Check that the speed sensor connected correctly.  3. Check that the speed sensor connected correctly.  4. If the error still exists, please contact your retailer.  2. If the error still exists, please contact your retailer.  2. Check the speed sensor for signs of damage.  3. If the problem still exists, please contact your retailer.  3. Check that the speed sensor connected correctly.  2. If the error still exists, please contact your retailer.  3. Check that the speed sensor connected correctly.  2. If the error still exists, please contact your retailer.  3. Check the speed sensor for signs of damage.  3. If the problem still exists, please contact your retailer.  3. Check that speed sensor for signs of damage.  3. If the problem still exists, please contact your retailer.  3. 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.  3. Check that the speed sensor connected correctly.  3. Check that the speed sensor connected correctly.  4. If the error still exists, please contact your retailer.  4. Check the connector from the speed sensor to make sure it is connected correctly.  4. If the error persists, please contact your retailer.  4. Check the connector from the speed sensor to make sure it is connected correctly.  4. If the error still exists, please contact your retailer.  4. Check the connector from the battery is too low please contact your retailer.  4. Voltage of the stript please contact your retailer.  4. Voltage of th			
Error with the temperature sensor inside of the battery   Please contact your retailer.	11		Please contact your retailer.
The protection temperature inside the control lier has reached its maximum protection value  15 Error with the temperature sensor inside the controller controller  16 Error with the temperature sensor inside the controller  17 Error with the temperature sensor inside the controller  18 Error with the temperature sensor inside the controller  19 Please contact your retailer.  10 Please contact your retailer.  11 Restart the system 12 Check that the magnet attached to the spoke is aligned with the speed sensor and that the distance is between 1 to mm and 20 mm. 13 Check that the speed sensor connector is connected correctly. 14 If the error still exists, please contact your retailer.  15 Expeed signal Error  16 Speed signal of the torque sensor has an error or  17 Check that all connections are connected correctly. 18 Check the speed sensor for signs of damage. 19 Check the speed sensor for signs of damage. 29 Corrective the speed sensor for signs of damage. 20 Communication problem 20 Communication problem 21 Check the speed sensor for signs of damage. 22 If the error exit exists, please contact your retailer. 23 Brake signal has an error (If brake sensors a re fitted) 24 If the error exists, please contact your retailer. 25 Detection circuit for 15V has an error 26 Please contact your retailer. 27 Please contact your retailer. 28 Please contact your retailer. 29 Detection circuit on the keyboard has an error 20 Please contact your retailer. 30 Please contact your retailer. 31 Please contact your retailer. 32 Please contact your retailer. 33 Please contact your retailer. 34 Please contact your retailer. 45 Please contact your retailer. 46 Please contact your retailer. 47 Please contact your retailer. 48 Please contact your retailer. 49 Please contact your retailer. 40 Voltage of the single cell is too high Please contact your retailer. 40 Please contact your retailer. 41 Please contact your retailer. 42 Please contact your retailer. 43 Please contact your retailer. 44 Please contact your retailer. 45 Please cont	12	Error with the current sensor in the controller	Please contact your retailer.
life projection temperature inside the controller controller 2. If the problem still occurs, please change the controller 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 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 or 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 1. Check the connections are connected correctly. 2. Check the speed sensor for signs of damage. 3. If the problem still exists, please contact your retailer.  30 Communication problem 1. Check all connections are correctly connected. 2. If the error persists, please contact your retailer.  31 Detection circuit for 15V has an error 1. Check all connections are correctly connected. 32 If the error still exists, please contact your retailer.  33 Please contact your retailer.  34 Detection circuit on the keyboard has an error 1. Check all connectors. 2. If the error still exists, please contact your retailer.  35 Detection circuit on the keyboard has an error 1. Check all connectors. 2. If the error still exists, please contact your retailer.  36 Detection circuit is faulty 1. Please contact your retailer.  37 Controller WDT circuit is faulty 1. Please contact your retailer.  38 Sensor WDT circuit is faulty 1. Please contact your retailer.  39 Total voltage from the battery is too high 1. Please contact your retailer.  40 Total power from the battery is too high 1. Please contact your retailer.  41 Total voltage of the single cell i	13	·	Please contact your retailer.
21 Speed sensor Error  22 Speed sensor Error  23 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.  24 Speed sensor Error  25 Torque signal Error  26 Speed signal of the torque sensor has an error or  27 Overcurrent from controller  28 Please contact your retailer.  29 Overcurrent from controller  20 Communication problem  21 Check the connector from the speed sensor to make sure it is connected correctly.  22 Check the speed sensor for signs of damage.  23 If the problem still exists, please contact your retailer.  29 Overcurrent from controller  20 Please contact your retailer.  21 Check all connections are correctly connected.  22 If the error persists, please contact your retailer.  23 Brake signal has an error (If brake sensors a re fitted)  25 Detection circuit for 15V has an error  26 Please contact your retailer.  27 Please contact your retailer.  28 Detection circuit on the keyboard has an error  29 Please contact your retailer.  20 Please contact your retailer.  21 Please contact your retailer.  22 Please contact your retailer.  23 Please contact your retailer.  24 Please contact your retailer.  26 Please contact your retailer.  27 Please contact your retailer.  28 Sensor WDT circuit is faulty  29 Please contact your retailer.  29 Please contact your retailer.  20 Please contact your retailer.  21 Total voltage from the battery is too high  21 Please contact your retailer.  28 Please contact your retailer.  29 Please contact your retailer.  20 Please contact your retailer.  21 Please contact your retailer.  21 Please contact your retailer.  22 Please contact your retailer.  23 Please contact your retailer.  24 Please contact your retailer.  25 Please contact your retailer.  26 Please contact your retailer.  27 Please contact your retailer.  28 Please contact your retailer.  29 Please contact your retailer.  20 Please contact your retailer.  20 Please contact your retailer.	14	ller has reached	<ol> <li>Allow the pedaled to cool down and restart the system</li> <li>If the problem still occurs, please change the controlle r or contact your supplier.</li> </ol>
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46 The temperature of the battery is too low Please contact your retailer.	44	Voltage of the single cell is too high	Please contact your retailer.
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Flease contact your fetaller.	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.



# **Documents / Resources**



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