

7 USER MANUAL FOR DP C244.CAN/ DP C245.CAN



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7.1 IMPORTANT NOTICE

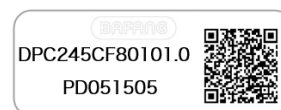
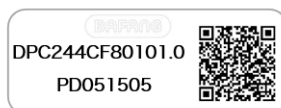
- If the error information from the display cannot be corrected according to the instructions, please contact your retailer.
- The product is designed to be waterproof. It is highly recommended to avoid submerging the display under water.
- Do not clean the display with a steam jet, high-pressure cleaner 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.
- In the event of inconsistency or discrepancy between the English version and any other language version, the English language version shall prevail.

7.2 INTRODUCTION OF DISPLAY

- Model: DP C244.CAN/ DP C245.CAN
- The housing material is ABS; the TFT display windows is made of tempered glass:



- The label marking is as follows:



- 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

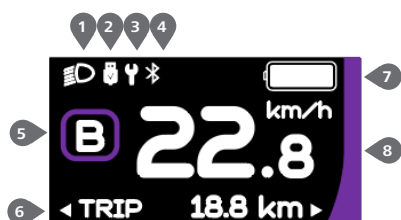
7.3.1 Specifications

- Operating temperature: -20℃~45℃
- Storage temperature: -20℃~60℃
- Waterproof: IP65
- Storage Humidity: 30%-70% RH

7.3.2 Functional Overview

- CAN communication protocol
- Speed indication (including the real-time speed, max. speed and average speed)
- Unit switching between km and mile
- Battery capacity indication
- Automatic sensors explanation of the lighting system
- Brightness setting for backlight
- 6 power assist modes
- Mileage indication (including single-trip distance TRIP and total distance ODO, the highest mileage is 99999)
- Intelligent indication (including remaining distance RANGE and energy consumption CALORIE)
- Error code indication
- Walk assistance
- USB charge (5V and 500mA)
- Service indication
- Bluetooth Function (only in DP C245.CAN)

7.4 DISPLAY



- 1 Headlight indication
- 2 USB charge indication
- 3 Service indication
- 4 Bluetooth indication
(only light up in DP C245.CAN)
- 5 Power assist mode indication
- 6 Multifunction indication
- 7 Battery capacity indication
- 8 Speed in real-time

7.5 KEY DEFINITION



7.6 NORMAL OPERATION

7.6.1 Power ON/OFF

Press  and hold (>2S) to power on the HMI, and the HMI begin to show the boot up LOGO.

Press  and hold (>2S) again to power off the HMI.

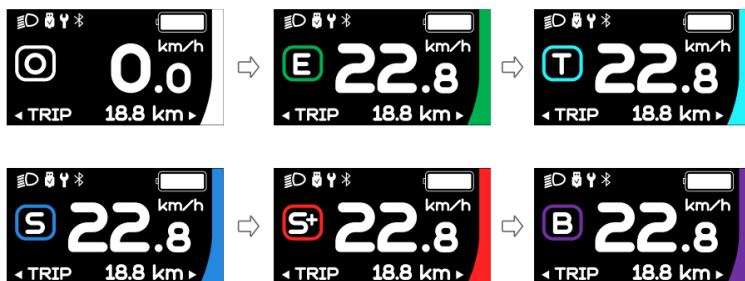
If the automatic shutdown time is set to 5 minutes (set in function "Auto Off"), the HMI will be automatically turned off within this set time, when it is not operated.



7.6.2 Power Assist Mode Selection

When HMI powers on, briefly press  or  to select the power assist mode and change the output power. The lowest mode is E, the highest mode is B (which can be set). On the default is mode E, number "0" means no power assistance.

Mode	Color	Definition
Eco	green	the most economic mode
Tour	blue	the most economic mode
Sport	indigo	the sport mode
Sport+	red	the sport plus mode
Boost	purple	the strongest sport mode



7.6.3 Multifunction Selection

Briefly press  button to switch the different function and information.

Circularly show single trip distance (TRIP,km) → total distance (ODO,km) → maximum speed (MAX,km/h) → average speed (AVG,km/h) → real-time output power (Watt,W) → remaining distance (Range,km) → riding cadence (Cadence,rpm) → energy consumption (Cal,KCal) → riding time (TIME,min) → cycle.



7.6.4 Headlights / Backlighting

Press and hold  (>2S) to turn on the headlight and reduce the backlight brightness.

Press and hold  (>2S) again to turn off the headlight and increase the backlight brightness.

The brightness of backlight can be set in function "Brightness" within 5 levels.



7.6.5 Walk Assistance

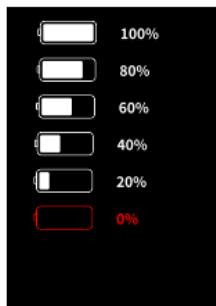
Note: The walk assistance can only be activated with a standing pedelec.

Briefly press  button until this symbol  appears. Next keep pressing the  button until the walk assistance is activated and the  symbol is flashing. (If no speed signal is detected, the real-time speed is shown as 2.5km/h.) Once releasing the  button, it will exit the walk assistance and the  symbol stops flashing. If no operation within 5s, the display will automatically return to 0 mode.



7.6.6 Battery Capacity Indication

The percentage of current battery capacity and total capacity is displayed from 100% to 0% according to the actual capacity.



7.6.7 USB Charge Function

When the HMI is off, insert the USB device to the USB charging port on the HMI, and then turn on HMI to charge. When the HMI is on, it can direct charge for USB device. the maximum charging voltage is 5V and the maximum charging current is 500mA.



7.6.8 Bluetooth Function

Note: Only DP C245.CAN is the Bluetooth version.

DP C245 equipped with Bluetooth 5.0 can be connected to the Bafang Go APP. The customer also can develop their own APP based on the SDK provided by BAFANG.

This display can be connected to the SIGMA heartbeat band and shows it on display, and can also send data to the mobile phone.

The data that can be sent to the mobile phone are as follow:



No.	Function
1	Speed
2	Battery capacity
3	Support level
4	Battery info.
5	Sensor signal
6	Remaining distance
7	Energy consumption
8	System part info.
9	Current
10	Heartbeat
11	Single distance
12	Total distance
13	Headlight status
14	Error code



Google Play

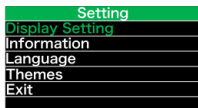


App Store

(Bafang Go for Android™ and iOS™)

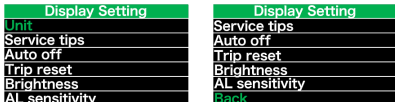
7.7 SETTINGS

After the HMI powered on, press and hold  and  button (at the same time) to enter into the setting interface. Briefly press (<0.5S)  or  button to select "Setting", "Information" or "Exit", then briefly press (<0.5S)  button to confirm.



7.7.1 "Setting" interface

After the HMI powered on, press and hold  and  button to enter into the setting interface. Briefly press (<0.5S)  or  to select "Setting" and then briefly press  (<0.5S) to confirm.



7.7.1.1 "Unit" Selections in km/Miles

Briefly press  or  to select "Unit", and briefly press  to enter into the item. Then choose between "Metric" (kilometer) or "Imperial" (mile) with the  or  button. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit back to the "Setting" interface.



Note: If you choose "Metric", all the data displayed on the HMI are metric.

7.7.1.2 "Auto Off" Set automatic Off time

Briefly press  or  to select "Auto Off", and briefly press  to enter into the item.

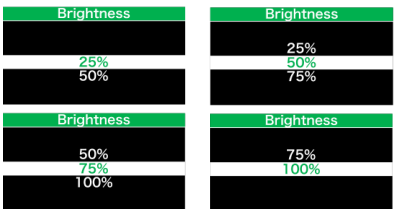
Then select the automatic Off time as "OFF"/ "1"/"2"/"3"/"4"/"5"/"6"/"7"/"8"/"9"/"10" with the  or  button. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit back to the "Setting" interface.



Note: "OFF" means the "Auto Off" function is off.

7.7.1.3 "Brightness" Display brightness

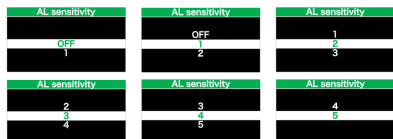
Briefly press  or  to select "Bright-ness", and briefly press  to enter into the item. Then select the percentage as "100%" / "75%" / "50%" / "25%" with the  or  button. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit back to the "Setting" interface.



7.7.1.4 "AL Sensitivity" Set light sensitivity

Briefly press  or  to select "AL Sensitivity", and briefly press  to enter into the item. Then select the level of the light sensitivity as "OFF"/"1"/ "2"/"3"/"4"/"5" with the  or  button. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit back to the "Setting" interface.

Note: "OFF" means light sensor is off. Level 1 is the weakest sensitivity and level 5 is the strongest sensitivity.



7.7.1.5 "TRIP Reset" Set reset function for single-trip

Briefly press or to select "TRIP Reset", and briefly press to enter into the item. Then select "NO"/"YES" ("YES"- to clear, "NO"-no operation) with the or button. Once you have chosen your desired selection, press the (<0.5S) to save and exit back to the "Setting" interface.



Note: The riding time(TIME), average speed (AVG) and maximum speed (MAXS) will be reset simultaneously when you reset TRIP.

7.7.1.6 "Service" Turn on/off the Service indication

Briefly press or to select "Service", and briefly press to enter into the item. Then select "OFF"/"ON" ("ON" means Service indication is on; "OFF" means Service indication is off) with the or button. Once you have chosen your desired selection, press the (<0.5S) to save and exit back to the "Setting" interface.

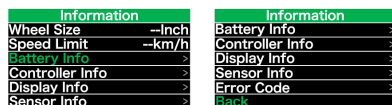


Note: The default setting is OFF. If the ODO is more than 5000 km, the "Service" indication and mileage indication will flash for 4S.



7.7.2 "Information"

After the HMI powered on, press and hold and to enter into the setting function. Briefly press (<0.5S) or to select "Information" and then briefly press (<0.5S) to confirm.



Note: All information here cannot be changed, it is to be viewed only.

7.7.2.1 "Wheel Size"

After entering the "Information" page, you can see "Wheel Size --Inch" directly.



7.7.2.2 "Speed Limit"

After entering the "Information" page, you can see "Speed Limit --km/h" directly.



7.7.2.3 "Battery Info"

Briefly press or to select "Battery Info", and briefly press to enter, then briefly press or to view the battery data (b01 → b04 → b06 → b07 → b08 → b09).

→ b10 → b11 → b12 → b13 → d00 → d01 → d02 → ... → dn).

Press the  button (<0.5S) to exit back to the "Information" interface.

Note: If the battery doesn't have communication function, you won't see any data from battery.

View the battery information

Battery Info	
Back	Next Page...
Temp	28C
Total Volt	4509mV
Current	-40mA
Res Cap	6AH
Page:1/7	Page:2/7

View the hardware and software version of battery

Battery Info	
Back	Next Page...
Cycle Times	39
M.N.T	1248h
L.N.T	1968h
Cell	12
Page:3/7	Page:4/7

Code	Code Definition	Unit
b01	Current temperature	°C
b04	Battery voltage	mV
b06	Current	mA
b07	Remaining battery capacity	mAh
b08	Battery capacity of Full charged	mAh
b09	Relative SOC	%
b10	Absolute SOC	%
b11	Cycle Times	times
b12	Max Uncharge Time	Hour
b13	Last Uncharge Time	Hour

Code	Code Definition	Unit
d00	The number of cell	
d01	Voltage Cell 1	mV
d02	Voltage Cell 2	mV
dn	Voltage Cell n	mV

NOTE: If no data is detected, "--" will be displayed.

7.7.2.4 "Display Info"

Briefly press  or  to select "Display Info", and briefly press  to enter, briefly press  or  to view "Hardware Ver" or "Software Ver".

Press the  button (<0.5S) to exit back to the "Information" interface.

Display Info	
Back	SW: DPC244CF80101.0
	HW: DP C244.C1.0

7.7.2.5 "Ctrl Info"

Briefly press  or  to select "Ctrl Info", and briefly press  to enter, briefly press  or  to view "Hardware Ver" or "Software Ver".

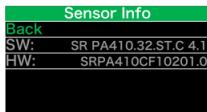
Press the  button (<0.5S) to exit back to the "Information" interface.

Controller Info	
Back	SW: CR X10V.350Fc 3.0
	HW: CRX10VC4313h102028.1

7.7.2.6 "Sensor Info"

Briefly press  or  to select "Sensor Info", and briefly press  to enter, briefly press  or  to view "Hardware Ver" or "Software Ver".

Press the  button (<0.5S) to exit back to the "Information" interface.



NOTE: If your Pedelec doesn't have torque sensor, "--" will be displayed.

7.7.2.7 "Error Code"

Briefly press  or  to select "Error Code", and then briefly press  to enter, briefly press  or  to view message of error for last ten times by "E-Code00" to "E-Code09". Press the  button (<0.5S) to exit back to the "Information" interface.



7.8 ERROR CODE DEFINITION



The HMI can show the faults of Pedelec. When a fault is detected, one of the following error codes will be indicated too.

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.

See Appendix B for the detailed error code list.