

7 USER MANUAL FOR DP C01.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.

7.2 INTRODUCTION OF DISPLAY

- Model: DP C01.CAN BUS
- The housing material is PC and PVC:
- 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

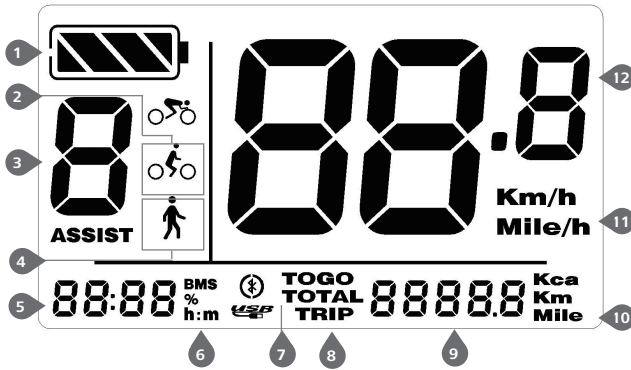
7.3.1 Specifications

- Operating temperature: -20 °C~45 °C
- Storage temperature: -20 °C~50 °C
- Waterproof: IP65
- Bearing humidity: 30%-70% RH

7.3.2 Functional Overview

- Speed display (switching between km and miles).
- Battery capacity indication.
- The lighting system.
- Indication of performance support.
- Kilometer stand (including single-trip distance, total distance).
- Time display for single journeys.
- Walk assistance model.
- Indication of error messages.

7.4 DISPLAY





- 1 Display of battery capacity in real time
- 2 Riding mode
- 3 Support level
- 4 Walking assistance
- 5 Time
- 6 Battery information
- 7 Total kilometers (ODO)
- 8 Daily kilometers (TRIP)
- 9 Trip data
- 10 Unit of trip
- 11 Unit of speed
- 12 Speed display in real-time

7.5 KEY DEFINITION





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.


If the "automatic shutdown time" is set to 5 minutes (it can be reset with the "Auto Off" function, See **"Set Auto Off"**), the display will automatically be turned off within the desired time when it is not in operation.

7.6.2 Selection of Support Levels

When the display is turned on, press the  or  (<0.5S) button to switch to the support level, the lowest level is 0, the highest level is 5 (the amount of support level can be set). When the system is switched on, the support level starts in level 1. There is no support at level 0.







7.6.3 Headlights / backlighting

Hold the  (>2S) button to activate the frontlight and taillights.



Hold the  (>2S) button again to turn off the frontlight. The brightness of the backlight can be set in the display settings **"Brightness"**.

7.6.4 Walk Assistance


The Walk assistance can only be activated with a standing pedelec.

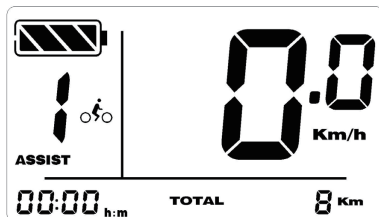
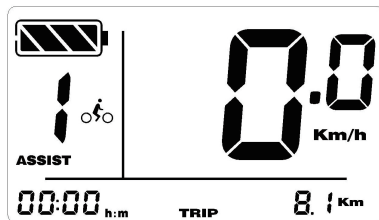
Activation: Press the  button until this symbol  appears. Next hold down the  button whilst the  symbol is displayed, now the Walk assistance will activate. The symbol  will blink and the pedelec moves approx. 5 km/h. After releasing the  button, the motor stops automatically and switches back to level 0.

7.6.5 Reset mileage

When HMI power on, at the single trip interface press and hold  and  synchronously for 3 seconds to reset TRIP and exit.

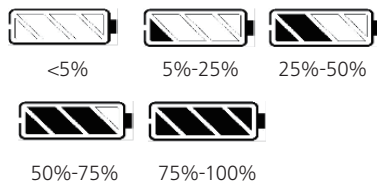
7.6.6 Selection mode

Briefly press  (0.5s) to view TRIP or ODO. As following:



7.6.7 Battery capacity indication

The battery capacity is displayed in real time as 100% to 0% (as shown in the figure below).



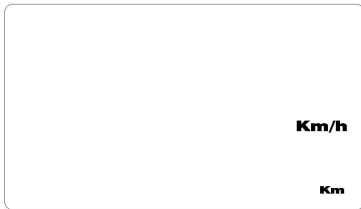
7.7 SETTINGS

7.7.1 Setting

7.7.1.1 Selection of unit in km/Miles

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, and then briefly press (<0.5S) **+** or **-** to select "Km/h" or "Mile/h".

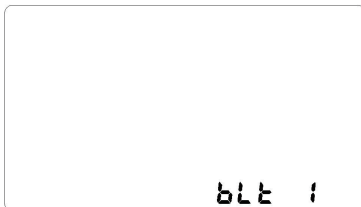
Press and hold **+** and **-** button together to save and exit to the main interface. Or press (<0.5S) **⏻** to save and enter next item "Set display brightness".



7.7.1.2 Set display brightness

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, repetitively press (<0.5S) **⏻** until the brightness (bLt) interface (as below), and then press **+** to increase or **-** to reduce (brightness for 1-8).

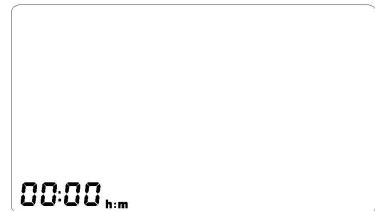
Press and hold **+** and **-** button together to save and exit to the main interface. Or press (<0.5S) **⏻** to save and enter next item "Set Clock".



7.7.1.3 Set Clock

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, repetitively press (<0.5S) **⏻** until the clock interface (as below), and then press **+** to increase or **-** to reduce ((hour and minute).

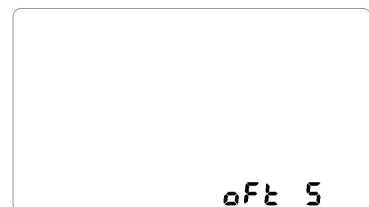
Press and hold **+** and **-** button together to save and exit to the main interface. Or press (<0.5S) **⏻** to save and enter next item "Set Auto Off".



7.7.1.4 Set Auto Off

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, repetitively press (<0.5S) **⏻** until the auto off interface (as below), and then press **+** to increase or **-** to reduce time (0-60 minute), 0 minute means disable automatic off function.

Press and hold **+** and **-** button together to save and exit to the main interface. Or press (<0.5S) **⏻** to save and enter next item "Set speed level".



7.7.1.5 Set support level

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, repetitively press (<0.5S) **⏻** until the support level interface (as below), and then press **+** or **-** to select level (3/5/9).

Press and hold **+** and **-** button together to save and exit to the main interface.



7.7.2 View Information

All data in this item cannot be changed, only to be viewed.

7.7.2.1 Wheel Size

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, repetitively press (<0.5S) **⏻** until the wheel size interface (as below).

Press and hold **+** and **-** button together to exit to the main interface. Or press (<0.5S) **⏻** to enter next item "Speed Limit".



7.7.2.2 Speed Limit

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, repetitively press (<0.5S) **⏻** until the

speed limit interface (as below).

Press and hold **+** and **-** button together to exit to the main interface. Or press (<0.5S) **⏻** to enter next item "Display Information".



7.7.2.3 Display Information

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, repetitively press (<0.5S) **⏻** until display hardware version (dHc) or software version (dSc) interface (as below).

Press and hold **+** and **-** button together to exit to the main interface. Or press (<0.5S) **⏻** to enter next item "Controller Information".



Hardware version of display



Software version of display

7.7.2.4 Controller Information

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, repetitively press (<0.5S) **⏻** until controller hardware version (CHc) or software version (CSc) interface (as below).

Press and hold **+** and **-** button together to exit to the main interface. Or press (<0.5S) **⏻** to enter next item "Torque Information".



Hardware version of controller

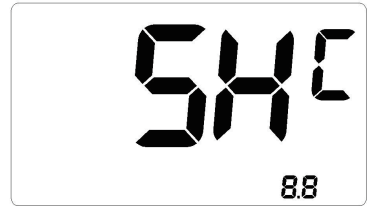


Software version of controller

7.7.2.5 Torque Information

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, repetitively press (<0.5S) **⏻** until torque hardware version (SHc) or software version (SSc) interface (as below).

Press and hold **+** and **-** button together to exit to the main interface. Or press (<0.5S) **⏻** to enter next item "Message of Error Code".



Hardware version of torque



Software version of torque

7.7.2.6 Message of Error Code

When the system is on, press and hold **+** and **-** for 2 seconds to the setting interface, repetitively press (<0.5S) **⏻** until error code interface (as below), and then press **+** or **-** to view message of error code. It shows error information for the last ten times by "E0" to "E9". Error code "--" means that there is no error.

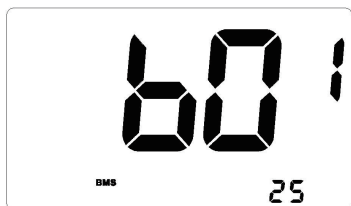
Press and hold **+** and **-** button together to exit to the main interface.



7.7.2.7 Battery Information

1) When the system is on, press and hold **+** and **⏻** for 2 seconds to view battery information, repetitively press (<0.5S) **+** or **-** to view all info of battery.

Press and hold **+** and **-** button together to exit to the main interface.



Content	Explanation
b01	Current temperature (°C)
b04	Voltage (V)
b06	Discharge (A)
b07	Remaining Capacity (A/h)
b08	Total Capacity (A/h)
b09	Default Loader Status (%)
b10	Instant charge (%)
b11	Charging cycles (number)
b12	Maximum time in which no charge was made (Hr)
b13	Time since last charge (Hr)
d00	Number (individual)
d01	Cell Voltage 1 (mV)
d02	Cell Voltage 2 (mV)
dn	Cell Voltage n (mV)

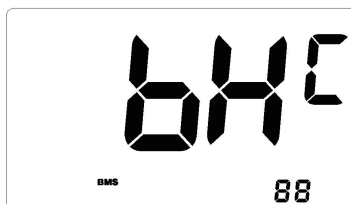
NOTE: If no data is detected, "--" is displayed.

2) View hardware and software version of battery

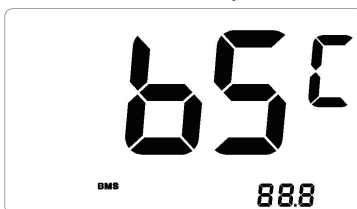
Briefly press **+** (0.5s) to display hardware and software version of battery.

“bHc” means BMS Hardware check;

“bSc” means BMS Software check.



Hardware version of battery



Software version of battery

7.8 ERROR CODE DEFINITION

i The display can show the errors of a pedelec. If an error is detected, one of the following error codes will be displayed.

Note: Please read the description of the error code carefully. If you see the error code, restart the system first. If the problem is not resolved, please contact your dealer.

Error	Declaration	Troubleshooting
04	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.(only with this function)
05	The throttle has fault.	1. Check the connector of throttle whether they are correctly connected. 2. Disconnect the throttle, If the problem still occurs, please contact your retailer. (only with this function)
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 phase's	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	<ol style="list-style-type: none"> 1. Turn off the system and let the pedelec cool down. 2. If the problem persists, please contact your retailer.
15	Error with the temperature sensor inside the controller	Please contact your retailer.
21	Speed sensor Error	<ol style="list-style-type: none"> 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 persists, please contact your retailer.
25	Torque signal Error	<ol style="list-style-type: none"> 1. Check that all connections are connected correctly. 2. If the error persists, please contact your retailer.
26	Speed signal of the torque sensor has an error	<ol style="list-style-type: none"> 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 persists, please contact your retailer.
27	Overcurrent from controller	Please contact your retailer.
30	Communication problem	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> 1. Check all connectors. 2. If the error continues to occur, please contact your retailer.

Error	Declaration	Troubleshooting
35	Detection circuit for 15V has an error	Please contact your retailer.
36	Detection circuit on the keypad has an error	Please contact your retailer.
37	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	Switching detection defect	Please contact your retailer. (only with this function)
62	Electronic derailleur cannot release.	Please contact your retailer. (only with this function)
71	Electronic lock is jammed	Please contact your retailer. (only with this function)
81	Bluetooth module has an error	Please contact your retailer. (only with this function)