

Display Graphic D400+

QUICK START



CONTENT

DISPLAY.....	3
THROTTLE	4
ASSIST FUNCTIONS.....	4
DISPLAY INFO	5
BIKE INFO	5
BATTERY AND SERVICE INFO.....	6
WHEEL SIZE SETTINGS.....	6
DISPLAY SETTINGS	7
BACK LIGHT SETTINGS	7
TIME AND DATE SETTINGS.....	8
TIME FORMAT	8
ASSIST TYPE	9
TROUBLESHOOTING.....	11

DISPLAY

The display is accessed with 5 buttons and the throttle from the left side of the handlebar. The display is mounted on the stem. Read this guide for more information about display functionality and bike information.

When "Walk assist" is activated, then this symbol is displayed

When the light button is activated, then the light symbol is displayed

Power consumption

Bike info

- * Total distance
- * Trip distance
- * Trip time
- * Remaining distance
- * Bike power
- * Clock



Battery status

Speed indicator

Speed units

Displays the selected assist level, distance and bike mode

THROTTLE

When the throttle is turned then the assist functionality is bypassed and the „Booster effect“ is activated. Release the throttle and the system returns to assist mode.

Using the throttle is suitable in heavy traffic where short bursts of extra power is required e.g. in situations with overtaking of slow cyclists.



ASSIST FUNCTIONS

The system has two assist functions options. The assist function will show in the display, when selected:

- Assist level 1-5. Select by using the "Up" and "Down" buttons
- "Walk-Assist" function is activated by holding the down button in or by using the throttle without pedalling. When "Walk assist" is activated then the bike travels with 6 km/h.

"Walk-Assist" is usable if you need to pull the bike up a hill.

Note! "Walk-Assist" is not available on bikes equipped with centre motor and footbrake.

DISPLAY INFO

Toggle between the following in the display "Bike info" with the "Menu" button:

- Total distance
- Trip distance
- Trip time
- Remaining distance
- Bike power
- Clock

BIKE INFO

Information about the bike and trip(s) is found in the "info" menu.

1. Press "Menu" down until the main menu is displayed
2. Go to "Info" with "Up" or "Down" - Select with "Menu"
3. Go to "Bike" with "Up" or "Down" - Select with "Menu"
4. When the sub menu "Bike" is select, it is possible to see the following information:
 - Total distance
 - Trip distance
 - Trip time
 - Average speed
 - Max speed

All values except "Total Distance" can be reset.

- In the "Bike" submenu, go to the information you want to reset with "Up" or "Down" - Select with "Menu". Reset the value by selecting "Reset" in the display with "Menu"
- Return to the main display by pressing the "Menu" button down in 2 seconds or by selecting the "back" arrow in the display with "Menu"

BATTERY AND SERVICE INFO

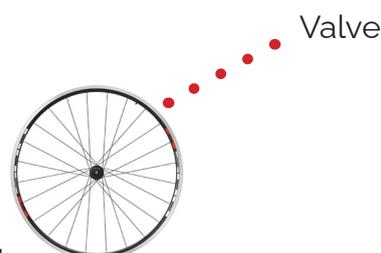
Further information is found under "info" about:

- **Battery:** Remaining power and state of health, displayed in percentages
- **Service:** The latest system error code and the firmware version on both the controller and the display

WHEEL SIZE SETTINGS

Setting wheel size

1. Press "Menu" down until the main menu is displayed
2. Go to "Bike Settings" with "Up" or "Down" - Select with "Menu"
3. Go to "Wheel Size" with "Up" or "Down" - Select with "Menu"
4. Adjust the value with "Up" or "Down" to match the circumference of the wheel, press "Menu" to save. Now the speed is calculated correct
5. Return to the main display by pressing the "Menu" button down in 2 seconds or by selecting the "back" arrow in the display with "Menu"



The speed display can be adjusted by changing the wheel size. The wheel size is found by measuring the inner circumference of the tyre or by reading the numbers on the side of the tyre. (Check the table below for reference)

TO (European Tyre and Rim Technical Organization):

ETRTO	DÆK	LÆNGDE	ETRTO	DÆK	LÆNGDE
40-406	20x1.50	1490	54-559	26x2.10	2068
47-406	20x7.75	1515	35-622	700x35C	2168
50-406	20x1.95	1565	38-622	700x38c	2180
47-507	24x1.75	1890	40-622	700x40c	2200
50-507	24x2.00	1925	42-622	700x42c	2224
54-507	24x2.125	1965	44-622	700x44c	2235
40-559	26x1.50	2010	45-622	700x45c	2242
47-559	26x1.75	2023	47-622	700x47c	2268
50-559	26x1.95	2050			

DISPLAY SETTINGS

You can toggle between km/h or mph in the display:

1. Press "Menu" down until the main menu is displayed
2. Go to "Display" with "Up" or "Down" - Select with "Menu"
3. Go to "Units" with "Up" or "Down" - Select with "Menu"
4. Select "Imperial" for miles, inch, etc. Save by pressing "Menu" down
5. Select "Metric" for km/t, cm, etc. Save by pressing "Menu" down
6. Return to the main display by pressing the "Menu" button down in 2 seconds or by selecting the "back" arrow in the display with "Menu"

BACK LIGHT SETTINGS

It is possible to toggle two back light settings in the display. Day setting is used if the "Light" is off. Night setting is used if the "Light" is on. Both light settings can be adjusted from 1–10 with 10 as the highest value.

1. Press "Menu" down until the main menu is displayed
2. Go to "Display" with "Up" or "Down" - Select with "Menu"
3. Go to "Back Light" with "Up" or "Down" - Select with "Menu"
4. Go to "Day" or "Night" with "Up" or "Down" - Select with "Menu"
5. Adjust the intensity value with "Up" or "Down" and press "Menu" to save
6. Return to the main display by pressing the "Menu" button down in 2 seconds or by selecting the "back" arrow in the display with "Menu"

TIME AND DATE SETTINGS

1. Press "Menu" down until the main menu is displayed
2. Go to "Clock" with "Up" or "Down" - Select with "Menu"
3. Go to "Adjust Date and Time" with "Up" or "Down" - Select with "Menu"
4. Go to "Adjust Date" with "Up" or "Down" - Select with "Menu" to adjust the "Adjust Date" settings
5. Adjust the value with "Up" or "Down" - select with "Menu" and continue to next value
6. Go to "Time" with "Up" or "Down" - Select with "Menu" to adjust the "Time" setting
7. Adjust the value with "Up" or "Down" - select with "Menu" and continue to next value
8. Return to the main display by pressing the "Menu" button down in 2 seconds or by selecting the "back" arrow in the display with "Menu"

TIME FORMAT

1. Press "Menu" down until the main menu is displayed
2. Go to "Clock" with "Up" or "Down" - Select with "Menu"
3. Go to "Time Format" with "Up" or "Down" - Select with "Menu" to adjust the "Time Format" settings
4. Go to the desired time format with "Up" or "Down" - Select with "Menu"
5. Return to the main display by pressing the "Menu" button down in 2 seconds or by selecting the "back" arrow in the display with "Menu"

ASSIST TYPE

Dependant on the electrical system installed on your bike, there are 2 different system options. Each system includes 3 different assist types:

Pedal speed sensor system

- Speed mode.
- ECO mode.
- Set distance.

Pedal torque sensor system

- Normal mode.
- Torque mode.
- Set distance.

Changing assist type:

1. Press "Menu" down until the main menu is displayed
2. Go to "Driving mode" with "Up" or "Down" - Select with "Menu"
3. Toggle the assist type with "Up" or "Down" - Select and save with "Menu"
4. Return to the main display by pressing the "Menu" button down in 2 seconds or by selecting the "back" arrow in the display with "Menu"

Conditions that may affect system capacity and performance:

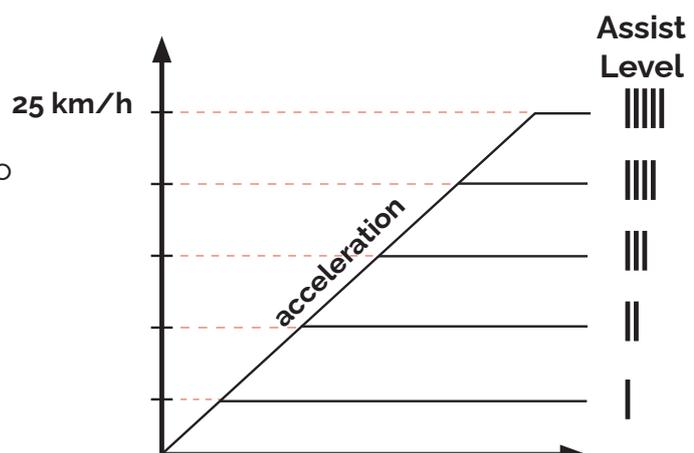
- Tire pressure
- Temperature
- Wind and weather
- Load including user weight
- Charging the battery

SPEED MODE

At a given "Assist level" the system will supply full driving force up and to the selected speed level

Usability

- Smooth ride

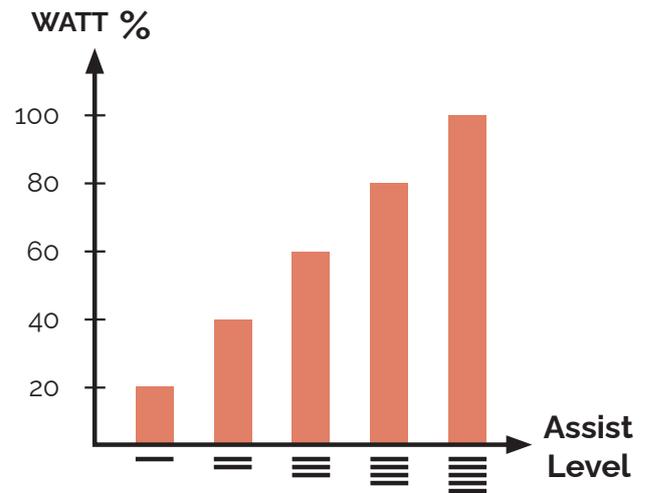


NORMAL + ECO MODE

At a given "Assist level" the system will supply a specified amount of driving force between 0–25 km/h.

Usability:

- Variable speed
- Relaxed ride



TORQUE MODE

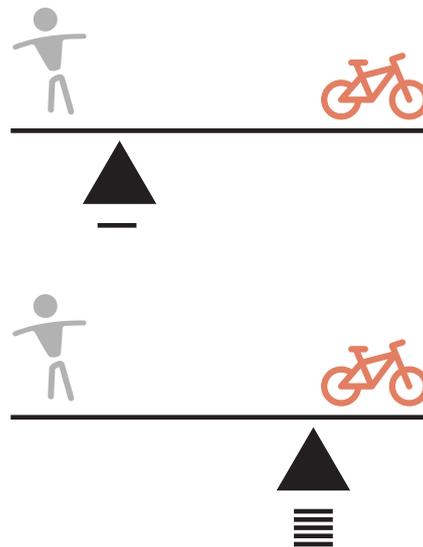
The system provides driving force to the bike according to the amount of force the added to the pedals. At assist level 1 the user will need to provide more propulsion than at level 5 to reach the same speed.

Note: Available on centermotors with torque sensor only.

Selecting higher gears enables the user to provide propulsion to the bike easier.

Usability:

- Variabel speed
- More usability

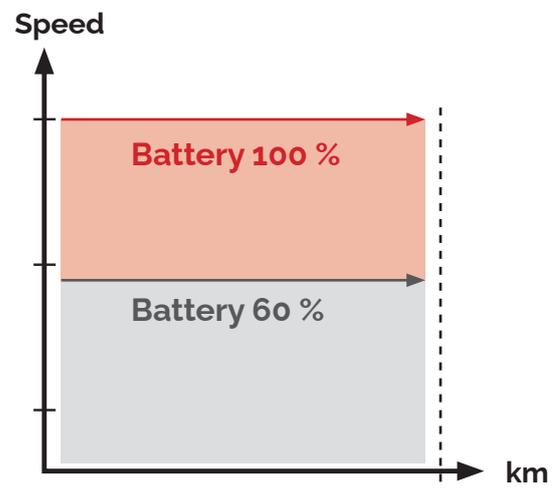


TAKE ME HOME (SET DISTANCE)

By setting a distance the system will manage power consumption and motor assistance for the entire ride ensuring the entered distance will be reached.

Usability

When trip length exceeds battery capacity.



TROUBLESHOOTING

Errors are displayed, with a code and a description in the display info area. If an error is displayed then it is a signal about an error in the electrical system. A restart of the system is required when an error has been remedied.

ERROR CODE	MEANING	SOLUTION
1	Motor error.	Check motor connection** Contact retailer.
2	Controller error.	Contact retailer.
3	Throttle error.	Reset the throttle to start Check the display connector** Contact your retailer
4	Low voltage error.	Recharge the battery
5	Brake sensor error.	Reset the handbrake to start position. Check the light connection for moisture.** Contact retailer.
5	Brake/Shift Sensor error. Only with centermotor.	Reset the handbrake to start position. Check the light and shift sensor connection.** Contact retailer.
6	Speed sensor error.	Check the distance from the magnet to the sensor. Check the speed sensor connection.** Contact your retailer.
7	Battery malfunction.	Contact your retailer.
8	System overload.	Check connections.** Restart the system Contact your retailer.
9	Communication error.	Check connections** Contact your dealer.
10	High voltage error.	Contact your retailer.
11	Display error.	Check the display connection. ** Contact your dealer.
12	Temperature error.	Reduce the load. Check connections.** Restart the system or contact your dealer.
L\$	Only centermotors with torque sensor.	Contact retailer.

*Check the wire connections are connected, free from water and the pins are not bend or damaged.

ABOUT PROMOVEC

Promovec is a Danish e-bike manufacturer and developer

Promovec manufactures e-bikes for major international brands and advanced battery solutions for e-bikes

In the production of all Promovec's products we seek sustainable and high-quality solutions to best serve both the planet and our customers.

For more information about Promovec visit www.promovec.com or drop by one of our social media platforms.

