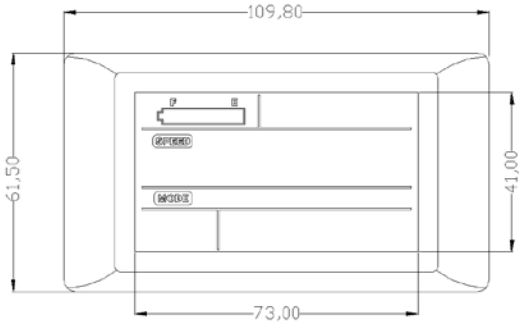
Enoeco LCD Console CS-S900

User Manual V.2014

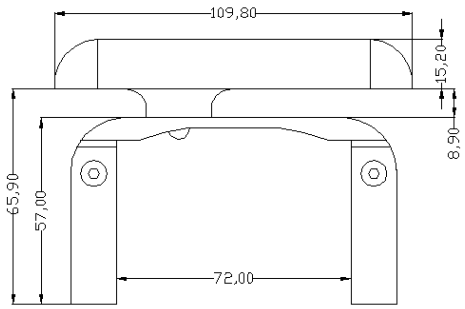
1. Exterior Parameters

Casing Material: ABS

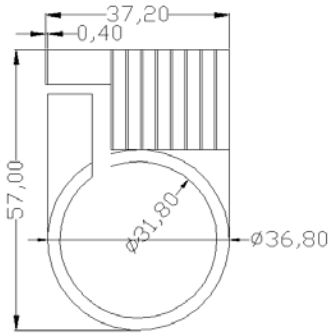
Display Material: High Hardness Acrylic (the same hardness value as tempered glass).



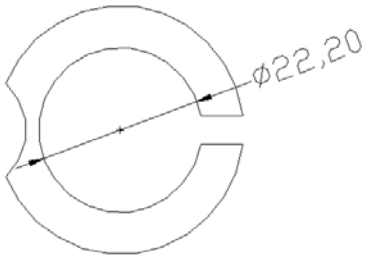
Front View



Side View



Side View of the Support Stand



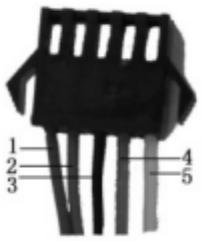
Optional: Converter Ring
ϕ 22.2mm /25.4mm

2. Operating Voltage and Connections

a. Operating Voltage: DC24V / 36V Compatible, 36/48V Compatible (set by the control panel). Other operating voltage can be customized.

b. Connections:

Standard connector sequence



Controller Connector

Panel Outlet Terminal

Wire Connector

Standard Connector Sequence Table

Sequence No.	Wire Colour	Functions
1	Red（VCC）	Display Power Cord
2	Blue（K）	Control Power Cord
3	Black（GND）	Display Ground Wire
4	Green（RX）	(Hall) Signal Sending Wire
5	Yellow（TX）	Not Defined

Extended Connectors

Light: Brown (DD): The positive electrode of the light

White (GND): The negative electrode of the light.

The wire colours of the PWM Voltage Motor Power Controller and the independent speed sensor will be defined otherwise.

Note: Some products are equipped with waterproof connectors, whose internal wire colors cannot be determined from outside.

3. Functions

a. Display

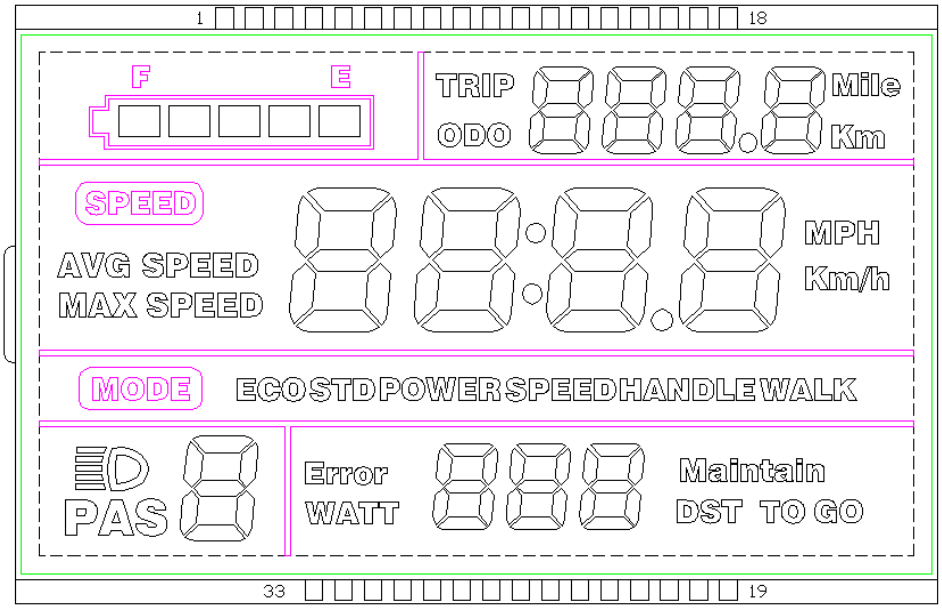
Speed Display, Motor Power Ratio Display, Battery Level Display, Error Indication, Total Mileage, Single Mileage, Light Signal, Single Running Time

b. Control and Settings

Power Switch, Front Light Control, 6km/h Inching Control, Real-time Cruise Control, Wheel Diameter Setting, Top Speed Setting, Idleness Time Setting for Auto-Hibernation, Backlight Brightness Setting, Voltage Level Setting

c. Communications Protocol: UART

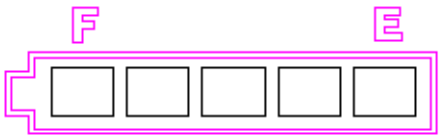
Display Readings (display at start for 1 second)



Display Details

3. 1 Light

3.2 Battery Level:



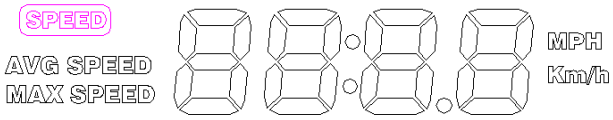
3.3 Multi-Functions Display

Total Mileage: ODO
Single Mileage: TRIP
Error Code: Error
Power: WATT
Maintenance: Maintain
DST TO GO: Unspecified

3.4 Vehicle Mode

ECO: Economical Mode
STD: Standard Mode
POWER: Intensified Mode
SPEEDHANDLE: Handle-controlled Speed Mode
WALK: Walk and Push Mode

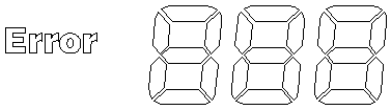
3. 5 Speed Display



Current Speed: CUR
Maximum Speed: MAX
Average Speed: AVG
Measuring Unit: MPH or KM/H

The panel will calculate the actual travelling speed based on the wheel diameter and signal data (number of magnet steel is needed for Hall motors).

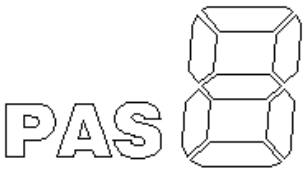
3.6 Vehicle Status

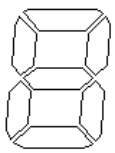


Status Code

Code (Decimal)	Indication	Note
0	Normal	
1	Reserved	
2	Brake	
3	Power Sensor Error (riding mark)	Not realizable
4	Cruise at 6km/h	
5	Real-time Cruise	
6	Low Battery Voltage	
7	Motor Error	
8	Handlebar Error	
9	Controller Error	
10	Communications Receiving Error	
11	Communications Sending Error	
12	BMS Communications Error	
13	Light Error	

3.7 Power Status



Power Status  (Gear 0-9)

Cruise Mark WALK

3. 8 Settings

P01: Wheel Diameter Unit: inch Precision: 0.5
P02: Magnet Steel Number
P03: Backlight Brightness (1: darkest; 3: brightest)
P04: Mileage Unit (0: KM; 1: MILE)
P05: Voltage Class: 24V (default) /36V
P06: Hibernation Time (0: never, other figures refer to the hibernation time) Unit: minute
P07: Maximum Speed Limit Unit: KM/H
P08: Hall Speed Mode 0: Show the hall speed sent by the controller
1: Show the hall speed sent by the motor (motor hall signal is preferred as it has shorter cycle that realizes self-identification of the panel reception and controller communications. In case that motor hall signal is not available, the panel will display hall signals sent by the controller instead.)

The following parameters are mainly applied for customized panel control (optional)
P9 Low Voltage Threshold Setting
Preset as 80% in the voltage-following mode, e.g. 36V * 80% = 32.4V
P10 Motor Mode Setting
e.g. 60 refers to a 60°motor, 120 refers to a 120°motor.
P11 Maximum Current (Current Limit)
Unit: A.
P12 Brake Strength: 1-100%
P13 Electric Lock / Light Short-Circuit Protection Mode
==25: Protection Disabled
Other Value: Protection Enabled
It is only necessary to disable protection when the specifications of the controller and the light are not matched.

4. Keys

Arrangement of keys on the panel:

Introduction of Keys

Key operations involve short press, long press and long press of combination

keys.

Short press is used for short/frequent operations as:

1. Short press the two keys   to change assist power/speed during riding.

2. Short press this key  to switch the readings in the multi-function display section.

Long press on a single key is used to switch mode/on/off status.

Long press on combination keys to set parameters, which can avoid misoperations (short press on combination keys is disabled, for it's easy to induce misoperation and hard to manipulate).

Detailed Instructions

1. Change Assist Power/ Electric Gear

In assist power mode

a. Short press  , assist power +1.

b. Short press  , assist power -1.

2. Switch Speed Display

Long press  +  to switch speed display type.

3. Enable / Disable 6km/h cruise, set real-time cruise and turn on/off the lights

When the vehicle is parked, long press  to enter 6km/h cruise mode.

When the vehicle is travelling, long press  to enter real-time cruise mode.

Long press  to exit the cruise mode when the vehicle is in cruise mode.

Long press  to turn on/off the lights.

4. Turn on/off the LCD Panel

When the display panel is operating, long press  and it will be turned off, otherwise it will be turned on.

5. Switch Displayed Readings in Multi-Functions Section

Short press  to switch readings shown in the multi-functions section.

6. Set Parameters

Long press  +  to enter the setting interface. Customizable parameters include:
Wheel Diameter (unit: inch);
Magnet Steel Number;
Backlight Brightness;
Low Voltage Threshold (refer to setting: P01-P14)

In the setting interface, short press  or  to add/minus value to the parameter, which will blink after modified. After selecting the parameter that needs to be set,

I. a. Long press  to save the current value, and the parameter will stop blinking;

b. Short press  to switch to the next parameter and the previously set value will be saved at the same time.

II. Press  +  to exit the setting and save the parameters. Without this operation, the system will automatically exit and save the modified parameters after 10 seconds.

Note: Due to product upgrade, the product you purchased may be slightly different from the descriptions in this user manual, and this won't affect normal usage.

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