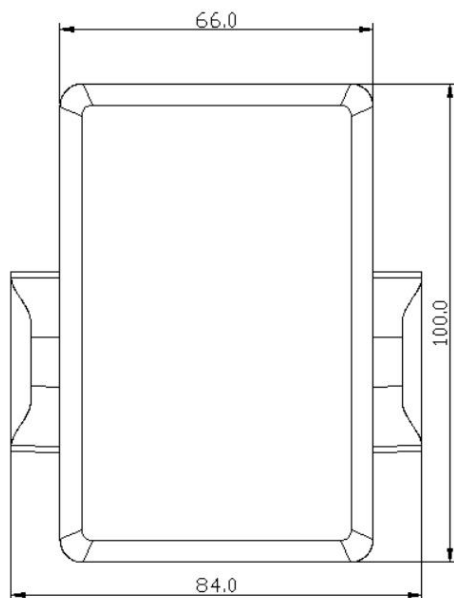


LCD-M7C-2Dashboard Instructions

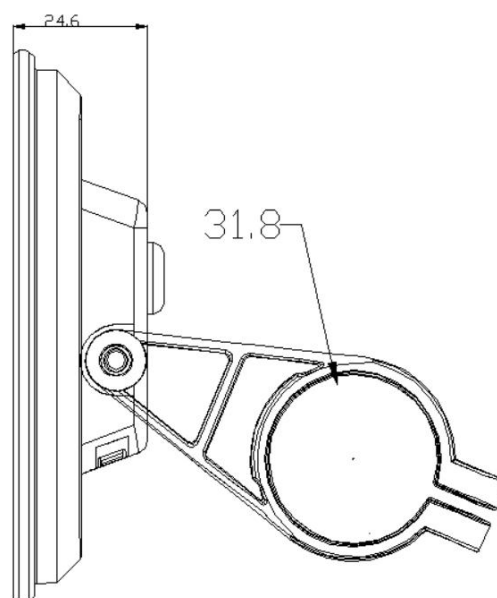


1. Appearance size and material (unit: mm)

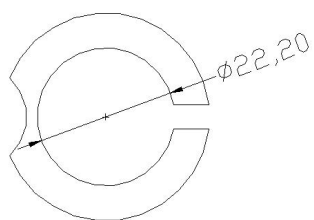
The product shell is ABS parts and metal parts, and the LCD transparent window is tempered glass.



Front view

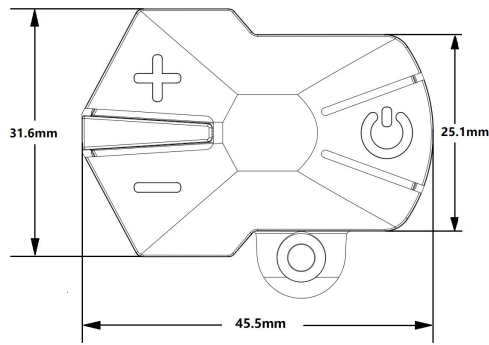


Side view

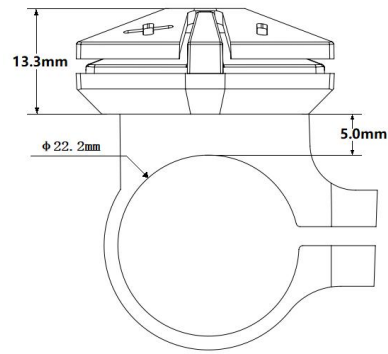


Optional adapter ring

31.8mm Holder have 22.2mm 、 25.4mm 、 28.6mm



Front view of switch



Side view of switch

2. Working voltage and wiring method

a. Working voltage: DC24V, 36V, 48V, 60V (instrument selection setting), other voltages can be customized

b. Wiring method:

Standard connector wire sequence

Table: Standard connector wire sequence table

Standard line sequence	Standard line color	Function
1	Red (VCC)	Dashboard Panel Power Cable
2	Blue (RX)	Dashboard Panel Data Reception Line
3	Black (GND)	Dashboard Panel Ground Wire
4	Green (K)	Controller Power Control Line
5	Yellow (TX)	Instrument Panel Data Transmission Line

3、 Function Description:

1. Display function

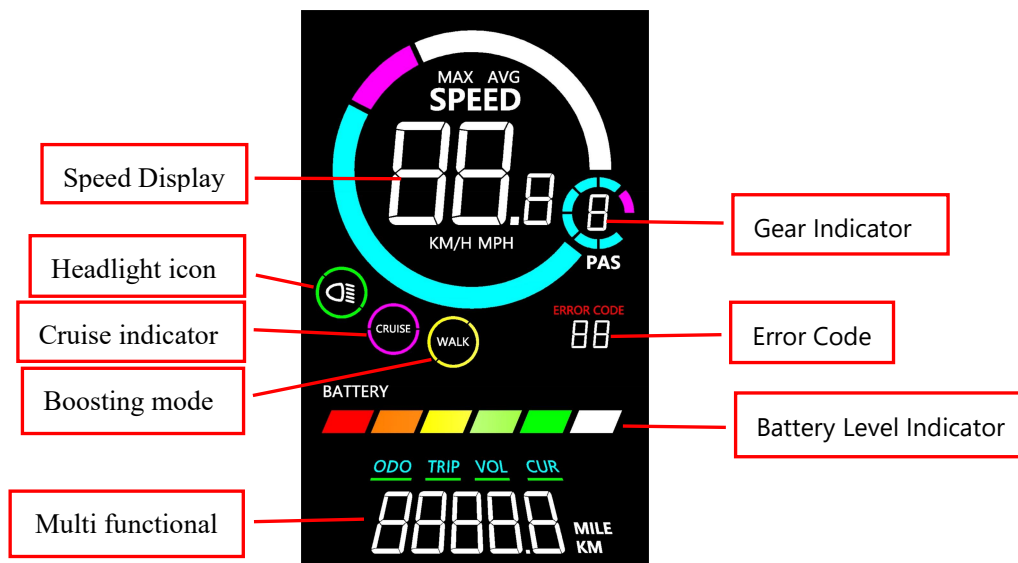
Speed display, power assist gear display, battery indicator, fault prompt, total mileage, single mileage, headlight display, single driving time display

2. Control and setting functions


Power switch control, headlight switch control, 6Km/h jog control, wheel diameter setting, maximum speed setting, idle automatic sleep time setting, voltage level setting

3. Communication protocol: UART


All contents of the display screen (fully displayed within 1 second of startup)



Display Content Introduction


3.1 Headlights  It can be turned on manually by the dashboard.

3.2 Battery level display BATTERY 

3.3 Gear Indicator PAS 

3.4 Multi-function display area 

Total Mileage ODO; Single Mileage TRIP; Current Battery Voltage VOL; Current Operating Current CUR;


3.5 Speed display area 

Maximum speed MAX, average speed AVG


Unit mph, km/h

The instrument will calculate the actual speed based on the wheel diameter and signal data

3.6 Meaning of ebike status icon

 Cruise has been activated

 Boosting Tips

3.7 Error code display area 

Meaning of M7C-2 dashboard ebike status code:

Status Code	Meaning of Status	
E06	Battery undervoltage	
E07	Motor malfunction	
E08	Turnaround malfunction	
E09	Controller malfunction	
E10	Communication reception failure	
E11	Communication transmission failure	

3. 7. Set up

P01: Backlight brightness, with level 1 being the darkest and level 3 being the brightest; (Non adjustable)

P02: Mileage unit, 0: KM; 1: MILE;

P03: Voltage level: 24V, 36V, 48V, 60V;

P04: Sleep time:

0, not sleeping;

The other numbers are sleep time, ranging from 1 to 60; Unit minute;

P05: Power assisted gear:

0, 3rd mode:

1st and 5th gear modes:

P06: Wheel diameter: unit, inch;

Protocol No. 2 Wheel Diameter Value: 5.0~50 Accuracy: 0.1 inch

This parameter is related to the displayed speed on the instrument and needs to be entered correctly;

P07: Number of speed measuring magnets: Range: 1-100;

This parameter is related to the displayed speed on the instrument and needs to be entered correctly;

If it is a regular wheel hub motor, directly input the magnetic steel number;

If it is a high-speed motor, the reduction ratio also needs to be calculated. The input data is equal to the number of magnets multiplied by the reduction ratio;

For example, the number of magnetic steel in the motor is 20, and the reduction ratio is 4.3. The input data is $86 = 20 \times 4.3$

P08: Speed limit: Protocol 2 range 0-100km/h,

100 indicates no speed limit;

The input data here represents the maximum operating speed of the vehicle: for example, inputting 25 means that the maximum operating speed of the vehicle will not exceed 25km/h; Maintain the driving speed at the set value,

Error: ± 1 km/h; (Both assistance and steering are limited in speed)

Note: The values here are based on kilometers. When the unit setting is converted from kilometers to miles, the speed value displayed on the interface will automatically convert to the correct mile value. However, the speed limit data set in this menu on the mile interface will not be converted, which is inconsistent with the actual displayed mile speed limit value;

P09: Zero start and non-zero start settings,

0: Zero startup;

1: Non zero startup;

P10: Drive mode setting:

0: Power assisted drive (determines how much power is output through the power assisted gear, and the lever is invalid at this time).

1: Electric drive (driven by a lever, at this time the assist gear is invalid).

2: Simultaneous coexistence of power assisted drive and electric drive

P11: Power sensitivity setting range: 1-24;

P12: Power assisted startup intensity setting range: 1-5;

P13: Three types of magnetic steel plates are available for assistance: 5, 8, and 12 pieces of magnetic steel

P14: Controller current limit setting default 12A range: 1-20A

P15: Controller undervoltage value

Press and hold the up key for 5 seconds to reset the ODO

P17:0: Do not enable cruise, 1: Enable cruise; Automatic cruise control is optional

P18: Display speed ratio adjustment range: 50%~150%,

P19: 0 gear enable position, 0: there is 0 gear, 1: there is no 0 gear



P20:0: Protocol No.2 (non adjustable)


4、 Button Introduction:

Introduction to button usage

Key operations include short press and long press, as well as combination key long press

Short press is used for quick/frequent operations, such as

01. When riding, it is necessary to modify the assist/speed gear. Short press  or  ;

02. To switch the multifunction area to display data while riding, please short press  ;

Single key long press or short press is mainly used for switching modes/switch states


Composite keys (long press) are used for parameter settings, as they are complex to operate and can reduce accidental operations

(Short press does not make compound keys, as it is easy to trigger by mistake and is too difficult to operate)

Specific operation explanation:

A. Modify the power ratio/electric gear

Assuming the current mode is assistance mode


1) Short press  , Assist gear + 1


2) Short press  , Assist gear - 1


B. Switching speed display,

Long press,  +  Switch speed display mode


C. Set/disable 6Km/h cruise control, turn on/off headlights, clear ODO

Ebike stationary state , long press  , Will enter 6KM/h cruise mode, release to exit cruise mode;


Long press  Turn on/off the headlights;

When displaying the P16 menu interface, Long press  5 seconds, ODO zeroing.



D. Switching LCD display screen

If the current display screen is working, long press  , It will turn off the display screen,
On the contrary, open the display screen





E. Switch the content of the multifunctional display area


Short press  Can switch the values of the multifunctional display area



F. Set parameters

Long press  +  It will enter the parameter setting interface, and the parameters that can be set include,

Wheel diameter (in inches), number of magnets, LCD brightness, undervoltage point, etc. (see settings: P01-P20);

In the settings interface, can short press , or  add or subtract a minimum precision unit value to the set value, also can long press , or  continuously and quickly modify parameters:

1. Short press  to switch to the next parameter;

2. Long press again  + , Exit the settings and save the parameters. If not operated, it will automatically exit and save the modified parameters after 8 seconds.

Note: Due to the upgrade of the company's products, some of the displayed content of the products you receive may differ from the instructions, but it will not affect your normal use.