



Changzhou Hui Kong New Energy Automotive Technology Co., Ltd.

LCD-HKP1 Manual control panel instructions

Dear users, Please read the operation manual in detail before using lcd-hkp1 Instrument. This manual will guide you to use the instrument correctly to achieve a variety of vehicle control and vehicle status display functions.

Appearance, size and material

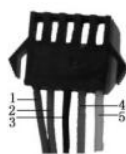
Product shell is ABS, liquid crystal transparent window is imported high hardness acrylic, hardness value is equivalent to toughened glass

Working voltage and connection mode

1、 Working voltage : DC24V 、 36V、 48V （ Instrument selection setting ） , other voltages can be customized.

2, connection mode

Mark the plug-in line order



Disconnect from the controller



Meter outlet



To the termina

Table: Mark the plug-in line order

The wiring sequence	Color of wiring	function
1	Red(VCC)	instrument power cord
2	Blue(K)	The power control line of the controller
3	Black(GND)	Instrument ground wire
4	Green(RX)	Instrument data receiving line
5	Yellow(TX)	Instrument data transmission line

Functional specifications

1、 Display function

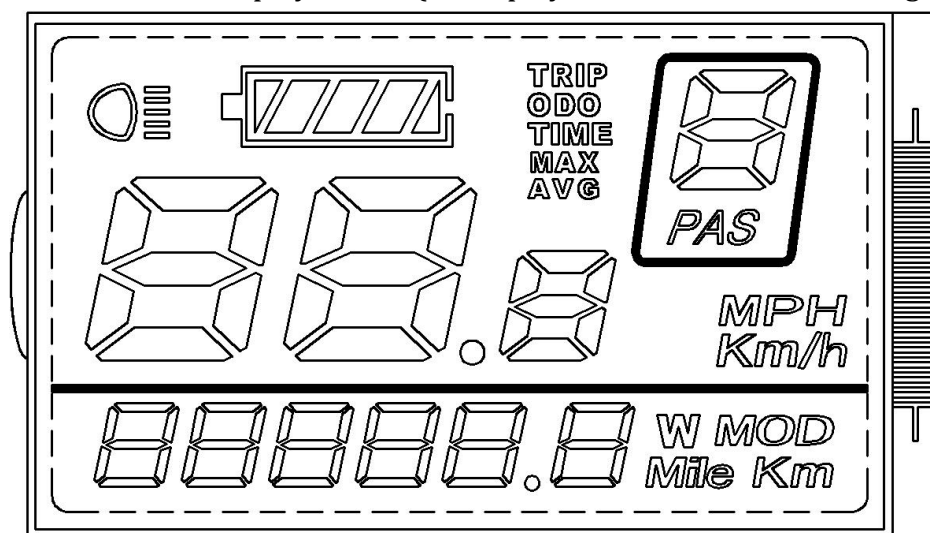
Speed display、 Assist gear display、 Power indicator、 Failure indication、 Odograph、 TRIP DIST、 Headlight display, single trip time display

2. Control and setting functions

Power switch control、 Headlight switch control (output by controller) 、 6Km/h point motion control、 Wheel diameter setting、 Maximum speed setting、 Idle automatic sleep time setting、 Backlight brightness setting、 Voltage rating setting。

3. Communication protocol: UART

All contents of the display screen (all displayed within 1S after starting up)

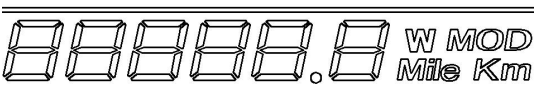


Display content introduction

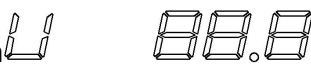
3.1 Headlight 

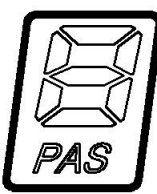
3.2 Battery power display 

TRIP
ODO
TIME

3.3 Multifunction display area  W MOD
Mile Km

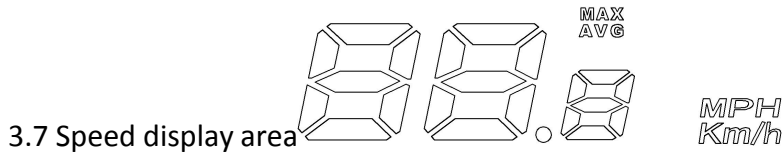
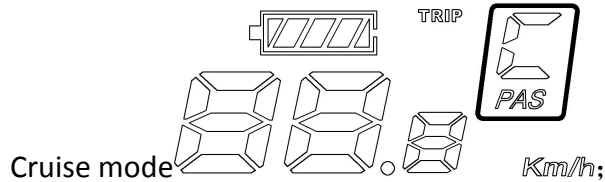
TRIP DIST (TRIP) 、 Odograph (ODO) 、 single trip time (single trip time) ;

3.4 Current voltage display area 

3.5 Vehicle assist gear adjustment 

0-5 adjustable; usually 3 file modes and 5 file modes available.

3.6 The vehicle model



The current speed、Maximum speed(MAX)、The average velocity(AVG),Unit mph, km/h;

The Instrument calculates true speed based on wheel diameter and signal data

3.8 Vehicle status display area

Error code Err

Vehicle status code meaning:

Status code (decimal)	State meaning	note
0	The normal state	
1	keep	
2	The brake	
3	Assist sensor fault (Riding logo)	Not implemented here
4	6 km/H cruise	
5	Real-time cruise	
6	Battery under voltage	
7	Motor fault	
8	Turn the fault	
9	Controller failure	
10	Communication receiving failure	
11	Communication transmission failure	
12	BMS communication failure	
13	Headlight fault	

3.9.Set up

P01: Backlight brightness, level 1 darkest, level 3 brightest;

P02: Unit mileage, 0: KM; 1: MILE;

P03: Voltage grade: 24V, 36V, 48V, default 36V;

P04: Sleep time: 0, no sleep;Other Numbers are sleep time, range: 1-60;Unit: minutes

P05: Assist gear: there are 3, 5 and 9 gears adjustable;

P06:The wheel diameter: Unit, inch; precision: 0.1;

P07: Speed measurement magnetic steel number: range: 1-255;

P08: The speed limit: range: 0-100km/h, 100 is the maximum speed limit,

1. Communication status (controller control) : drive speed remains at set value,

error: ± 1 km/h; (Assist, turn the handle speed limit)

note: The value here is based on kilometers. When the unit is set to convert from kilometers to miles, the speed value of the display interface will be automatically converted to the correct value of miles, however, the speed limit data set at this menu under the mile interface are not converted, which is inconsistent with the actual speed limit value of the mile shown.

P09: Zero start, non-zero start Settings, 0: Zero start; 1: non-zero start;

P10 : Drive mode setting 0 :Power-assisted drive (the power-assisted gear determines how much power is output, and the handlebar is invalid at this time)。

1 : Electric drive (by turning the handle, the assist gear is invalid)。

2 : Both the power-assisted drive and the electric drive coexist simultaneously (the electric drive is invalid under zero start condition).

P11: Assist sensitivity setting range: 1-24;

P12: Assist start intensity setting range: 0-5;

P13: Type setting of booster magnetic steel disc 5,8,12 magnetic steel types

P14: The controller's current limiting value is set by default 12A range: 1-20A

P15: Controller underpressure value

P16: Cruise on and off Settings, 0: start the cruise, 1: close the cruise

P17: ODO zero setting:long press up key for 5 seconds

The key introduction:

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

Short press is used for fast and frequent operations, for example:

1. When riding, press the up or down button to modify the power/speed gear;
2. When cycling, press the power button to switch the multi-function display data.

Long press power button is mainly used for switching mode/switching state.

The compound key (long press) is used to set parameters because of the complexity of the operation, which can reduce misoperation(Short press does not make compound key, because easy to trigger by mistake, operation is too difficult).

In the setting interface, you can press the up key or the down key to add or subtract the setting value. After the parameter is modified, it will flash.

1. Press the power button for a long time to save the current value;
2. Press the power button to switch to the next parameter and save the set value of the previous parameter;

Press the up + down key to exit the Settings and save the parameters. If you do not press it, it will exit automatically after 10 seconds and save the modified parameters.

Specific operation explanation:

1. Modify assist ratio/power gear

Let's say we're in assist mode

- 1) Short press the up key, assist add one;
- 2) Short press the down key, assist minus 1.

2. Switching speed display:

Long press, power key + up key switch speed display mode.

3. Set/remove 6Km/h cruise, turn on and off the headlights, ODO zero

When the vehicle is in a static state, long press the down key, and it will enter 6KM/h cruise mode;

Long press the up key to turn on and off the headlights ;

P17 menu interface, long press the up key for 5 seconds, ODO zero.

4. Switch the liquid crystal display

If the current display is working, pressing the power button for a long time will close the display and turn it on.

5. Switch the multifunction display area content

Press the power button to switch the value of the display area.

6. Set the parameters

Long press the up key + down key will enter the parameter setting interface, the parameters that can be set include:

Wheel diameter(Unit: inch), Number of magnets, Liquid crystal brightness,
(See Settings: p01-p17).

note : Because of the company's product upgrade, it is possible that the part of products you get will be different from the specifications, but it will not affect your normal use.

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