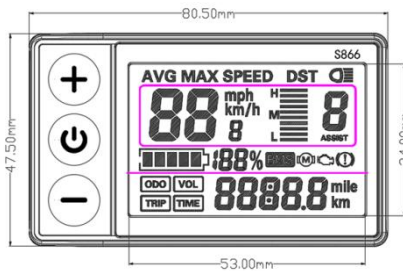# Changzhou JANA Electronic Technology Co.,LTD

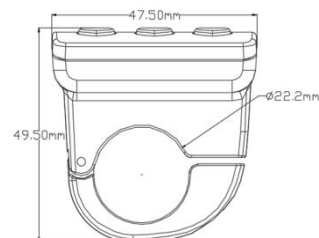## LCD-S866 manual control panel
2018 Latest Version - V1.0

NO.1 Appearance size and material

The product shell is ABS, and the LCD transparent window is imported high-hardness acrylic, the hardness value is equivalent to tempered glass.

Front view of instrument   **Side view of instrument**

NO.2 Working voltage and connection method

1. Working voltage: DC24V, 36V, 48V, 60V compatible,Other voltages can be customized.
2. Wiring mode:

Standard connector wire sequence

Connect to the controller   Instrument outlet   Connector

Standard connector wire sequence table

Standard wire sequence	Standard line color	Features
1	Red（VCC）	Instrument power cord
2	Blue（K）	Controller's power control line
3	Black（GND）	Instrument negative wire
4	Green（RX）	Data receiving line of the instrument
5	Yellow（TX）	Data transmission line of the instrument

Note: The leads of some products use waterproof connectors, and users cannot see the color of the leads in the harness.

NO.3 Function description:

Function:

1. Display function

Speed display, power indicator, fault prompt, total mileage, single mileage

2. Control and setting functions

Power switch control, wheel diameter setting, idle automatic sleep time setting, backlight brightness setting,

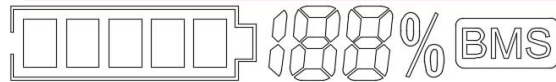Start mode setting, drive mode setting, voltage level setting, controller current limit setting,

3. Communication protocol: UART

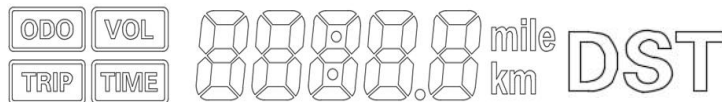All contents of the display screen (full display within 1S after power on)
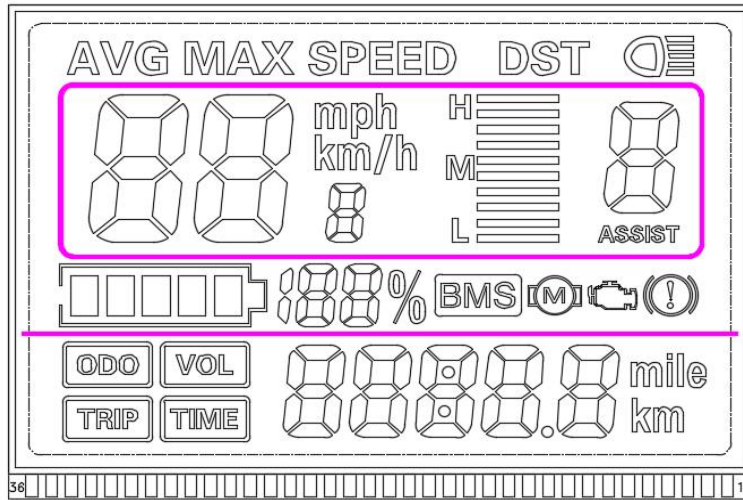
Display content introduction

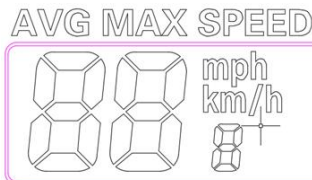3.1 Battery power and BMS remaining power display



3.2 Multi-function display area

Total mileage ODO, single mileage TRIP (unit: mile, km), single boot time TIME, battery voltage VOL, DST: cruising mileage

3.3 Speed display area

AVG: average speed, MAX: maximum speed, SPEED: current speed; unit Mp/h, km/h The speed signal is taken from the hall signal in the motor and sent to the instrument by the controller, (the time of a single hall cycle, unit: 1MS) The instrument will be based on the wheel diameter and signal data (the motor Hall also needs to set the number of magnets),Calculate the real speed.

3.4 Vehicle assist gear adjustment
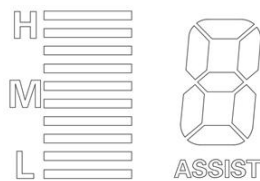
0-5 gear digital display and gear bar display;

3.5 Vehicle status display area

Motor failure	Controller failure	Brake prompt	Headlight prompt
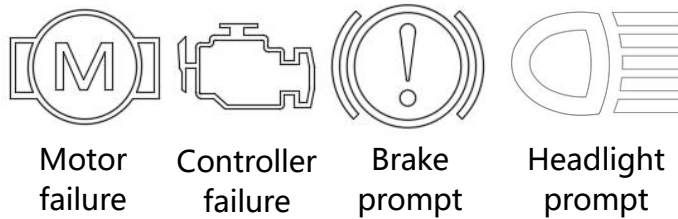
4. Settings

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

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

P03: Voltage level: 24V, 36V, 48V, 60V, 64V, default 48V;

P04: Sleep time: 0, no sleep; other numbers are sleep time, range: 1-60; unit minute;

P05: Assist gear position: 0, 3 gear mode: 1, 5 gear mode:

P06: Wheel diameter: unit, inch; precision: 0.1;

This parameter is related to the display speed of the meter and needs to be entered correctly;

P07: Number of speed magnets: range: 1-100;

This parameter is related to the display speed of the meter and needs to be entered correctly;

If it is an ordinary hub motor, directly enter the number of magnets;

If it is a high-speed motor, also need to calculate the reduction ratio, input data = number of magnets × reduction ratio;

For example: the number of motor magnets is 20, the reduction ratio is 4.3: the input data is: 86=20×4.3

P08: Speed limit: range 0-100km/h, 100 means unlimited speed,

The input data here indicates the maximum operating speed of the vehicle: for example, input 25, which means the maximum

The high operating speed will not exceed 25km/h; the driving speed is maintained at the set value,Error: ±1km/h; (boost and handle speed limit)

Note: P09-P15 menu is only valid in communication state

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

P10: Drive mode setting 0: Power-assisted drive (the power-assisted gear is used to determine how much power is output.handle invalid).

1: Electric drive (drive through the handle, at this time the assist gear is invalid).

2: Power-assisted drive and electric drive coexist at the same time

P11: Assist sensitivity setting range: 1-24;

P12: Boost starting intensity setting range: 0-5;

P13: Power-assisted magnet disc type setting 5, 8, 12 magnets three types

P14: Controller current limit setting default 18A range: 1-20A

P15: controller undervoltage value

P16: ODO reset setting Long press the **+** button for 5 seconds ODO reset

NO.4 Introduction to buttons:

1. In the shutdown state, long press the button to turn on; after turning on, short press the button, the interface will switch between ODO, TRIP, VOL, TIME

2. In the power-on state, long press the button to turn off, short press the button, the booster position +1, short press the button, the booster position-1;

3. Long press button and button to enter mode setting

Parameter value modification: In a certain parameter state, short press button to switch parameters, short key to increase the value, short press-key to decrease the value, after modification, short press button to switch to the next parameter and save the previous parameter Numerical value; after parameter modification, long press the button and button again to exit the setting interface. If you don't press it, wait for 8 seconds to automatically exit and save the parameters.

Note: Due to the company's product upgrades, part of the product display content you get may be different from the manual, but it will not affect your normal use.