



**领辉智能**  
LINGHUIZHINENG

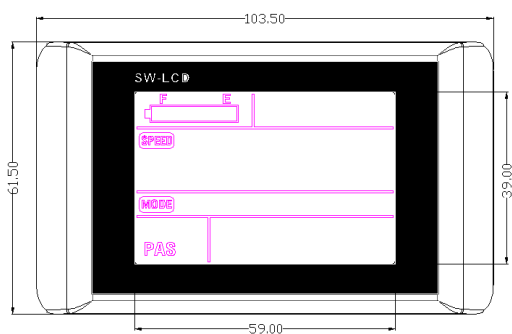
**JIANGSU LINGHUI INTELLIGENT TECHNOLOGY CO.,LTD**

**LCD-SW900 Hand Control Panel Operation  
Instruction  
2017 Latest Edition-V1.1**

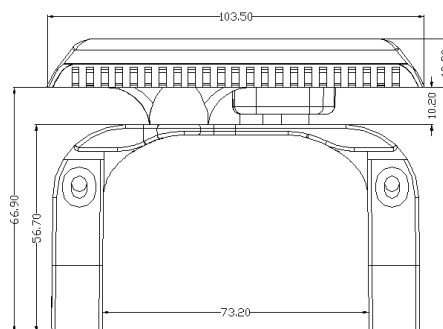


**一、 Out shell Size and Material**

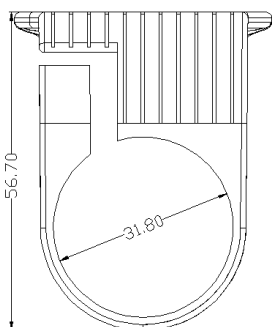
Out shell material is ABS, Liquid crystal transparent window material is high hardness acrylic, which hardness is same as toughened glass.



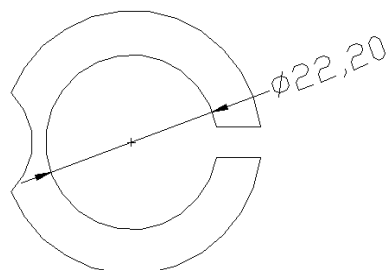
**Front view**



**Side view**



**Bracket Side view**



**Transfer ring 22.2mm、25.4mm 、28.6mm optional**

## 二、 Work Voltage and connection mode

1、 Work voltage: DC24V 、 36V、 48V、 60V(which you can choose on the meter),the others you can customized.

2、 connection mode

### Line sequence of the label connector

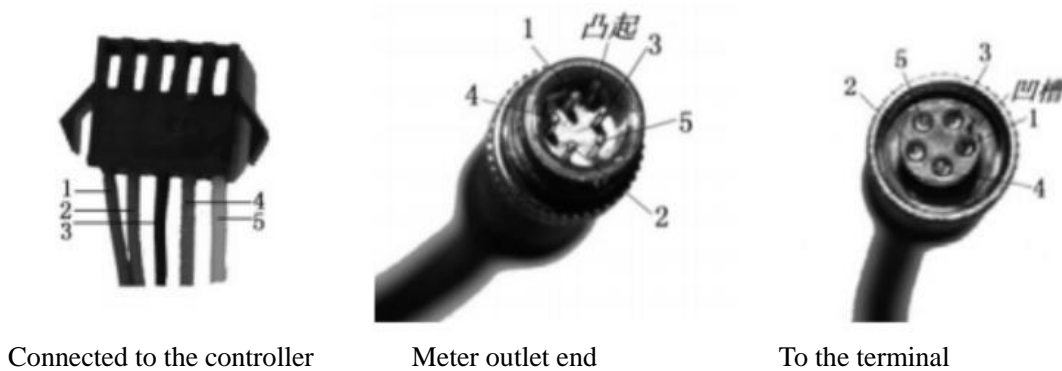


Table: Line sequence of the label connector table

Order of line	Color of line	Function
1	Red(VCC)	Meter wire
2	Blue(k)	wire of Controller
3	Black(GND)	Meter earth wire
4	Green(RX)	Meter data receiving line
5	Yellow(TX)	Meter data transmission line

#### Extended function

Headlamp: Brown(DD):Positive electrode

White(GND):Negative electrode

**PWM voltage type power shift control, An independent speed sensor, The color of wire otherwise defined.**

**Notes: Part of the products lead wire use waterproof connection. User cannot see the color of lead line.**

## 三、 Function description

1、 Display function

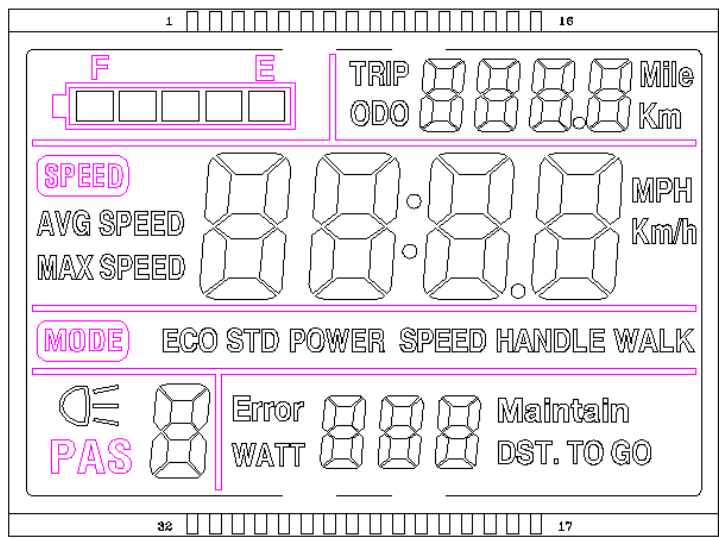
Speed display, Power shift display, Battery indicator, Malfunction indication, Total mileage, single mileage, headlamp display, Single running time display

2. Control, Set function


Power switch control, headlamp switch control,6Km/h point control, wheel diameter set, Maximum speed set, auto sleep time set when unused, Backlight brightness set,Voltage grade set

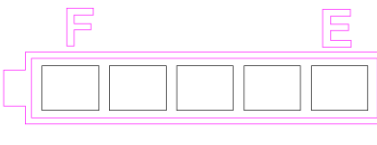
3.UART Communication protocol:

**All contents of the display screen(All show within 1 second after boot-strap)**



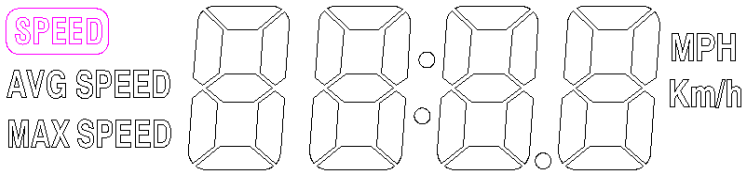
**Display content introduction**

3.1 Headlamp 

3.2 battery indicator BATTERY 

3.3 Multifunctional display area  Total mileage ODO, Single mileage TRIP, Malfunction code, Watt, Maintain, DST TO GO ( Temporary unused)

3.4 The vehicle model  ECO STD POWER SPEED HANDLE WALK  
 ECO; STD; POWER; SPEEDHANDLE; WALK:

3.5 Speed display 

AVG Maximum speed, Average speed, MPH, Km/h

The meter will calculate real speed by wheel diameter and sign data.

3. 6 Vehicle condition display area 



Condition code meaning of number 2 vehicle:

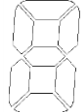

Status code(Decimal system)	Condition meaning	Remark
0	Normal	
1	Stay	
2	Brake	
3	power sensor problem	
4	6KM/H cruise control	Not
5	cruise real time	implemented
6	Battery under voltage	here

7	Electrical machinery problem	
8	handle problem	
9	Controller problem	
10	Communication reception problem	
11	Communication send problem	
12	BMS communication problem	
13	Headlamp problem	

### 5S Agreement vehicle status code meaning

Status code(Decimal system)	Status code(Decimal system) Status meaning	Remarks
33	Current anomaly	
34	Handle anomaly	
35	Motor phase	
36	Motor Hoare anomaly	
37	Brake anomaly	
30	Communication anomaly	

3. 7 Power condition display area  

Power condition  (0-9gears), 6km/h walk mark 

### 3. 8. Setting

P01: Backlight brightness, 1 grade Min, 3 grade Max

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

P03: Voltage classes: 24V, 36V, 48V, 60V; Voltage grade default 36V

P04: Dormancy time: 0 Not dormancy, the other number means dormancy ,  
rang: 1-60 unit minute

P05: Power gear: 0, 3 gear mode : 1 档 2V, 2 档, 3V, 3 档, 4V; 1,5 档模式: 1 档 2V, 2 档, 2.5V, 3 档, 3V, 1,5 gear mode  
4 档, 3.5V, 5 档, 4V;

P06: inch; Wheel diameter: unit

2 agreement wheel diameter 5.0-50 accuracy: 0.1 inch

5S agreement wheel diameter: 0: 16 inch, 1: 18 inch, 2: 20 inch, 3: 22 inch,

4: 24 inch, 5: 26 inch, 6: 700c, 7: 28 inch;

P07: magnetism steel velocity test: range 1-100

P08: Speed limited: 2 agreement rang 0-100km/h 100 means speed unlimited  
5S agreement 0-41km/h

Note: The value here is based on kilometers, when the unit is converted from kilometers to miles, the value of the display interface is automatically converted to the correct value of the mile. But speed limit data set at this menu under the mile interface is not converted. And the speed limit data is

not the same as real mile display.

P09: Zero start, not zero start,0:zero start;1:Not zero start(Only effective with 2 agreement )

P10: Power Setting(only effective with 2 agreement)

0 : Power assisted drive (Output power assisted accord the gear, handle invalid then

1 : Electric drive (With handle driver, power assisted drive invalid then)

2 : Power assisted drive and electric drive coexistence.

P11: Power assisted sensitivity setting range:1-24

P12: Power assisted starting strength setting range:1-5

P13: Power assisted magnetism steel plate typesetting 5,8,12 ,three kinds of magnetism steel

P14: Controller current limited setting Default: 12A

P15: Controller under voltage setting

P16: ODO reset setting: Press up key 5 seconds

P17: Auto cruise with choose(only effective to 2 agreement)

P18: speed proportion regulate display rang:50%-150%

P19: 0 gear,0:not include 0 gear

P20: 0:2 agreement 1:5S agreement 2:reserve 3:reserve

#### 四、The key introduction:



Key specific combination is as follows:




### Key use introduction

The key operation is short press and long press, and the combination of key long press

Short for quick/frequent operations, such as

-   When riding, need to modify power/speed gear, short press

-  Switch multi-functional area display data during cycling, short press

Single key length is mainly used for switching mode/switch state

The compound key (long press) is used to set the parameters, because the operation is complex, thus reducing the error operation

(Short press not to make compound key, because easy to miss trigger, operation is too difficult)

## Specific operation interpretation:

### 一、Modify the power ratio/electric gear position

Let's say it's the booster mode right now


1) Short press , help + 1

2) Short press , help - 1

### 二、Switching speed display,

Long press,  +  Switching speed display mode

### 三、Set/remove 6Km/h cruise, switch headlights and ODO

Vehicle stationary state, long press , It will enter the 6KM/h cruise mode and let go of


the cruise mode; long press  Turn on or off headlights;

P16 Menu interface, long press  5 seconds, ODO reset.



### 四、Switch LCD display



If the current screen is working, long press , The display will be turned off otherwise the display will be turned on



### 五、Switch multi-function display area


Short press  You can switch the value of the multi-function display area



### 六、Set parameters

The long press  +  will enter the parameter setting interface, and the parameters you can set include, Wheel diameter (unit: inch), magnetic steel number, liquid crystal brightness, undervoltage point, etc. (see Settings: P01 - P20);

Under the setting of the interface, you can shorten , or  the operation of the minimum precision unit value by adding or subtracting the set value, You can also have long

press , or  Continuous quick modification of parameters:

1. Short press  Switch to the next parameter;

2. Long press again  + , Exit Settings and save parameters, such as no operation, automatically exit and save the modified parameters after 8 seconds.

**Note: due to the upgrade of the company's products, the content of the product will be different from the specifications, but it will not affect your normal use.**

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