

User Manual for Display



Function:

1. Display function

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

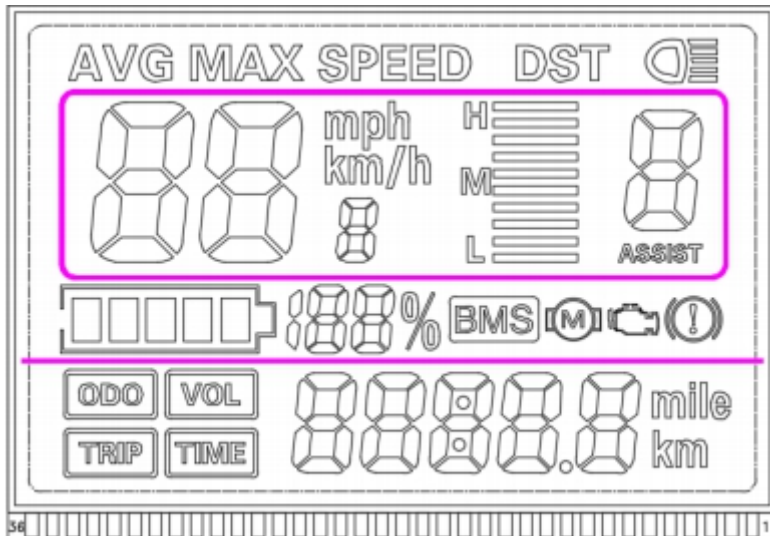
2. Control and setting functions

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 limiting data setting.

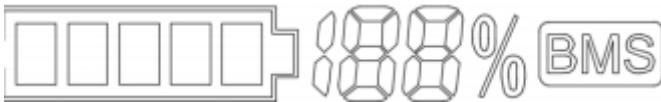
3. Communication protocol: UART

All contents of the display screen (display within 1S after startup)

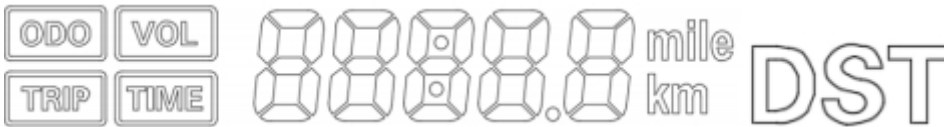
Display Contents



3.1 Display of battery power and BMS remaining quantity



3.2 Multi-function display area

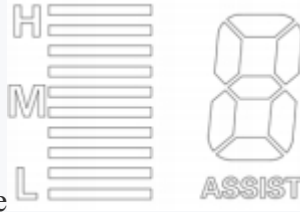


Total mileage ODO, single mileage TRIP (unit: mile, km), single startup TIME TIME, battery Voltage VOL, DST: range



3.3 Speed display area

AVG: average SPEED, MAX: maximum SPEED, SPEED: current SPEED. Unit of Mp/h, km/h. The speed signal is taken from the hall signal in the motor and sent to the instrument by the controller, (single Hall period Time, unit: 1MS) According to the wheel diameter and signal data (the number of magnetic steel needs to be set for the motor Hall), C calculate the true velocity.



3.4 Power gear adjustment of the vehicle

0-9 digital display and stall

bar display;



3.5 Vehicle status display area



Motor fault;



fault;



brake prompt;



Headlight on prompt

4. Setting (It is not recommended to set it randomly for non-professionals)

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

P02: mileage unit, 0: KM; 1: the MILE;

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

P04: Sleep time: 0, no sleep; Other numbers are sleep time, ranging from 1 to 60. Unit minute;

P05: Power gear: 0, 3 mode: 1, 5 mode:

P06: Wheel diameter: Unit, Inch; Accuracy: 0.1;

This parameter is related to the display speed of the instrument and needs to be entered correctly.

P07: Number of speed measuring magnetic steel: range: 1-100;

This parameter is related to the display speed of the instrument and needs to be entered correctly.

If it is a common hub motor, directly input the number of magnetic steel;

If it is a high-speed motor, also need to calculate the reduction ratio, input data = magnetic steel number x reduction ratio;

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

P08: Speed limit: range 0-100km/h, 100 means no speed limit,

The input data here represents the maximum speed of the vehicle: for example, 25 indicates the maximum speed of the vehicle

High operating speed will not exceed 25km/h; Drive speed maintained at the set value,

Error: ± 1 km/h; (Speed limit for power and handle)

Note: The value here is based on kilometers. When the unit is converted from kilometers to miles, the speed value on the display screen is automatically converted to the correct mile value, but under the mile interface the speed limit value set in the menu is not converted, which is inconsistent with the actual displayed speed limit value of miles;

Note: p09-P15 menus are only available in communication state

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

P10: Drive mode setting

0: power-assisted drive (how much power output is determined by power gear, turning handle at this time invalid).

1: electric drive (driven by turning handle, power gear is invalid at this time).

2: power and electric drive coexist at the same time

P11: Power sensitivity setting range: 1-24;

P12: Power start strength setting range: 0-5;

P13: There are three types of power assisted magnetic steel disk: 5,8,12 grains

P14: The default current limiting value of the controller is 12A. The range is 1-20 a

P15: undervoltage of the controller

P16: ODO reset setting Hold down the up key for 5 seconds ODO reset

P17:0: Disable cruise. 1: enable cruise. Automatic cruise optional (for Protocol 2 only)


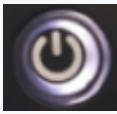
P18: Display speed proportional adjustment range: 50%~150%,

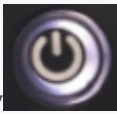

P19: enable position of 0, 0: including 0, 1: without 0

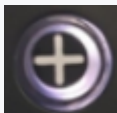
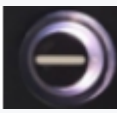
P20:0:2 protocol 1: 5S protocol 2: Standby 3: Standby

Brief introduction to keys:

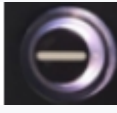



1. In shutdown state, long press the key  to power on; After startup, the power button , the interface in switch between ODO, TRIP, VOL and TIME.

2. In startup state, long press the key  to power off, short press the key, power gear +1, short press Key , power gear -1;

3. Long press  and  key to enter mode setting

Parameter data modification: In a parameter state, press the key  to switch

parameters, short press the key  to increase the data, short press the key 

to reduce the data, after modification, press the key  to switch to the next parameter, and save the previous parameter data; After the parameters are modified, long press



and



again to exit the setting interface. If no press the two buttons, it will exit and save the parameters in 8 seconds automatically