

NFC display using instruction

Newest version-V1.0

I 、 The apparent size and material

The shell of the product is ABS, and the liquid crystal transparent window is imported acrylic with high hardness, whose hardness is equivalent to the tempered glass.



Elevation view



side view

II 、 Specification parameters and connection mode

1、 specification parameter

- (1) ※ working voltage: DC24V, 36V, 48V, 60V compatibility (instrument selection setting).
※ rated operational current 10mA
- (2) ※ max electric current 30mA
- (3) ※ leakage after turn off<1uA
- (4) ※ offer to controller work current 50mA
- (5) ※ Using temperature: -18~65℃
- (6) ※ storage temperature: -30~80℃

2、connection mode:

Line sequence of the label connector	Line color	function
1	red(RX)	Communication receiver
2	blue(DS)	Controller electric door lock
3	black(GND)	Negative power supply
4	green(HALL)	Hall voltage
5	yellow(TX)	communication launch
6	white(BA)	positive power input

Attention: The leads of some products use waterproof connectors, and the user cannot see the color of the leads in the wire harness.

III、function description:

Function:

1、Display function

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

2. Control and set functions

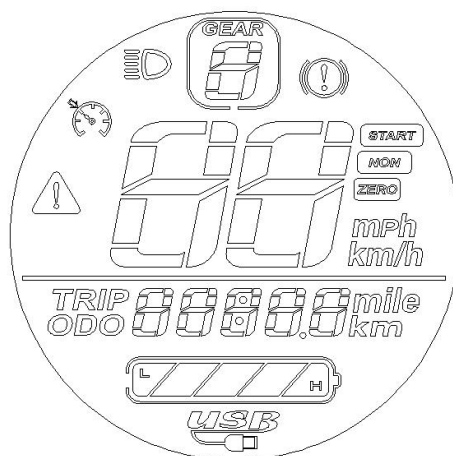
Power switch control, wheel diameter setting, idle automatic sleep time setting,

Backlight brightness setting, start mode setting, drive mode setting, voltage level setting, controller current limit value setting,

NFC swipe card start function, digital tube voltage display function.

3. Communication protocol: UART

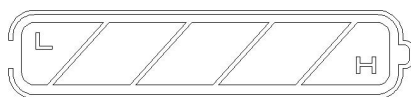
All contents of the display (full display within 1S after startup)



Display Content Introduction

3.1

① Voltage state level POWER



② Digital tube voltage real-time display:

Stick digital tube picture

3.2 Multi-function display area



Total mileage ODO, single mileage TRIP (unit: mile, km), digital voltage display VOL, fault code ERR

Code status (decimal)	Status	Remark
0	Normal condition	
1	keep	
2	brake	
3	PAS error (Riding logo)	Not realize
4	6KM/H cruise	
5	Real-time cruise	
6	Battery low voltage	
7	Motor error	
8	Throttle error	
9	Controller error	
10	Communication reception error	
11	Communication transmission error	
12	BMS communication error	
13	Front light error	



3.3 Speed display area

Unit Mp/h, km/h

Speed signal is taken from the Hall signal in the motor and sent to the meter by the controller. (Time of a single Hall cycle, unit: 1MS) out the real speed.



3.4 PAS level adjust , 0-9 level digital display and gear bar display

3.5 Status shows area



: Zero start or kick start tips;



: Light on ;



: cruise



: Error;



: Brake.

4. Menu set up introduction

P01: Backlight intensity: Level 1 is darkest, level 3 is brightest

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

P03: Voltage level: 24V, 36V, 48V, 52V, 60V;

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

P05: Power gear: 0:3 gear mode;

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

P07: Speed measuring magnetic steel number: range: 0-100;

P08: Speed limit: 0-100;

P09: Zero start, kick start setting, 0: zero start; 1: indicates kick start up

P10: Drive mode set 0: power assisted drive (determine how much power output by power assisted gear, at this time The handle is invalid).

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

2: Both booster drive and electric drive coexist

P11: Power sensitivity setting range: 0-5;

P12: Power start strength setting range: 1-5;

P13: Booster magnetic steel plate type setting is not opened

P14: The default value is 12A. The value ranges from 1 to 20A

P15: Controller undervoltage

P16: ODO Clearing Setting Long press the up key for 5 seconds to clear ODO

P17: 0: Disable cruise. 1: Enable cruise. Auto cruise optional (only for Protocol 2)


P18: NFC card management: save up to 10 cards;



P19: 0:0 is enabled. 0: with 0 and 1: without 0




P20: Protocol 0: 2 Protocol 1: 5S Protocol 2: standby 3: standby



IV、Button operation






1、 Turn off condition, long press  to turn on; after turn on, If there is an NFC card bound, it will be

displayed  , wait for swiping, No NFC card bound then go directly , short press , interface switches between ODO, TRIP, VOL。



2、 Under turn on condition, long press  to turn off, short press , PAS+1, short press , PAS-1;

3、 Long press  +  enter mode settings, press and hold both buttons at the same time

Parameter value modification : In a certain parameter condition , short press  shift


parameter, short press  increase the data, short press  reduce data, after finishing

modification, short press  shift to next parameter, and

save the last parameter data; After parameter modification, long press  +  exit setting interface, if not pressed, wait 8 seconds to automatically exit and save the parameters.

4、 NFC card setting: 3 NFC cards are bound by default in the factory, in the setting mode, short

press  shift to P18 option , long press  increase card , up to 10 cards , long

press  Clear all NFC card bindings, then no need to swipe the card when turn on。

5、 The crank adjusts the speed of the motor, and when it is moved from top to bottom, the speed of the motor increases, and when you let go, it returns to the zero position.

V、 Menu item settings

VI、 Frequently Asked Questions and Answers

1) Q: Why can't I turn on?

A: Check whether the instrument wiring harness is in good contact with the connector of the controller.

2) Q: What should I do if the meter shows a fault code?

A: Timely to the after-sales agency for maintenance.

VII、 Quality commitment and warranty scope

After the instrument leaves the factory, the shell scratches, damage is not repaired; Lead scratches and breaks are not covered; Circuit function loss, warranty period: from the instrument factory within 12 months.

VIII、 Version changes

The upgrade of the company's products may show some differences with the instructions, but it will not affect your normal use.