Product Introduction

The ZP930-A product adopts a 3.1-inch LCD VA black film color screen, with light buttons,matte textured black . The functional area distribution of the instrument interface is clear and intuitive, and the high-brightness LED backlight is selected, and the display content is still clearly visible in the sun. The product adopts nylon buckle, ABS shell, hardened PC mirror waterproof glass, the product can be used normally in the temperature of -25℃-80℃, and can ensure good electrical performance and mechanical performance.
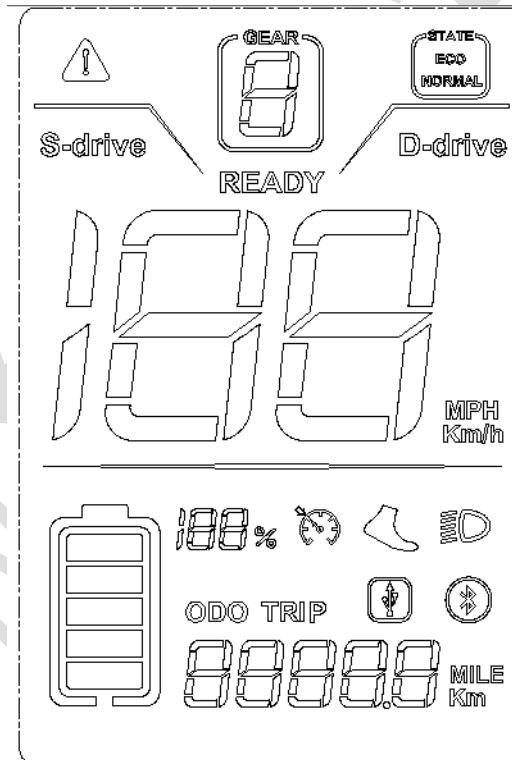
ZDU

● **FUNCTION：**

1. Display function

Battery indicator, Malfunction indicator ,Gear indicator,
Speed indicator, Cruise indicator, Headlight icon,
6KM boost indicator, Unit indicator and Bluetooth icon display.

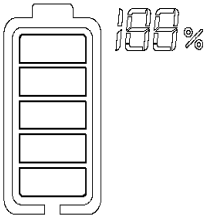**2. Communication protocol：UART**

3. Contents on the display

Display content introduction
1) Speed & Power display,The Maximum display to 199KM/H

2) Voltage status level

From bottom to top, the battery level increases sequentially, the lowermost display grid represents low battery, and the uppermost display grid represents high battery. The left side displays the corresponding remaining battery percentage (percentage example display)

3)Multifunctional display area

Display: total mileage, single mileage, real-time voltage display, running time prompt, fault prompt, switch handle voltage value

4).Fault status display area

The number corresponding to the multi-function area represents the corresponding fault content. The specific status is as follows:

ERRO 1：Motor failure

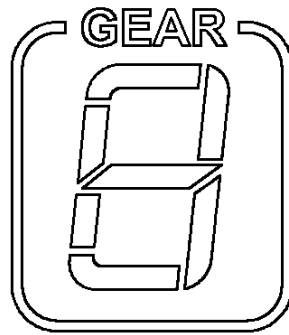ERRO 2：Accelerator throttle failure

ERRO 3：Controller failure

ERRO 4: Brake failure

ERRO 5：Undervoltage protection

ERRO 6：Communication failure, the display cannot receive the output from the controller

ERRO 7：Communication failure, the controller cannot receive the output from the display
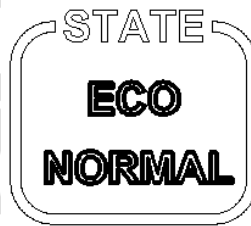
5).Gear display

GEAR

6).Single/dual drive riding mode selection, the default mode is single drive

S-drive   READY   D-drive

S-drive: One motor drive   D-drive: Two motors drive

7).Starting mode of the scooter

STATE
ECO
NORMAL

ECO: Non-zero startup mode   NORMAL: Zero startup mode

8).Accessibility display

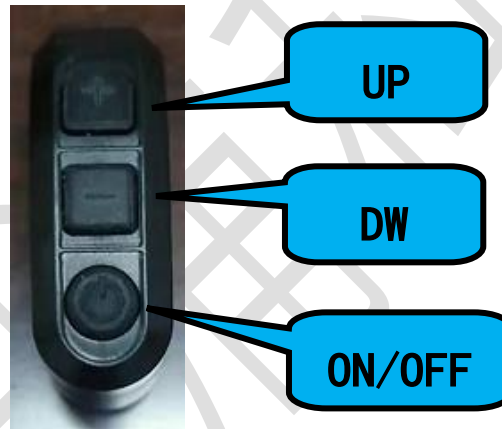**Cruise mode   /   6KM boost mode   /   Headlights on reminder**

USB charging prompt (Not supported) /
Bluetooth connection status prompt USB (Not supported)

● **INTRODUCTION TO KEY FUNCTIONS：**

1)ON/OFF Button : POWER ON/POWER OFF

  1.1 Press and hold the ON, OFF button for 3 seconds to turn on/off.

  1.2 Short press the ON/OFF button to turn on/off the headlight.

2)UP Button： GEAR UP

  2.1：Short press the UP button to increase the gear

  2.2: Press and hold the UP button to enable/disable dual drive mode.

3)DW Button：GEAR DOWN

  3.1 Short press the DW button to downshift

  3.2 Long press the DW button to enter/exit the 6KM boost mode (need to be supported by a controller)

4)Function menu settings

Press the UP button&DW button at the same time to enter the function menu interface. Short press the ON/OFF button to switch function options, short press the UP button or DW button to set the corresponding parameter value. After the setting is completed, press the UP& DW button at the same time to exit.

5)Parameter setting and definition

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

P03：Voltage mode；   default: 60V

P04：Sleep time：   from   0-60mins（0 means always on ,default: 5mins)

P06: Wheel diameter：calculated by inch；precision：0.1；   default: 10

P07:Number of tachometer magnets：Range：1-100；   Default: 30

P09：Zero start/non-zero start settings，0：Zero start；1：Non-zero start ；Default: 1

P10：Smart speed limit settings, 0:Speed released, 1:Speed locked；Default: 1

P12：Activate strength setting.Range:from 0 to 5，   5 most power；Default: 5

P15：Motor drive signal percentage setting，   Range：from 1 to 100; Default: 100

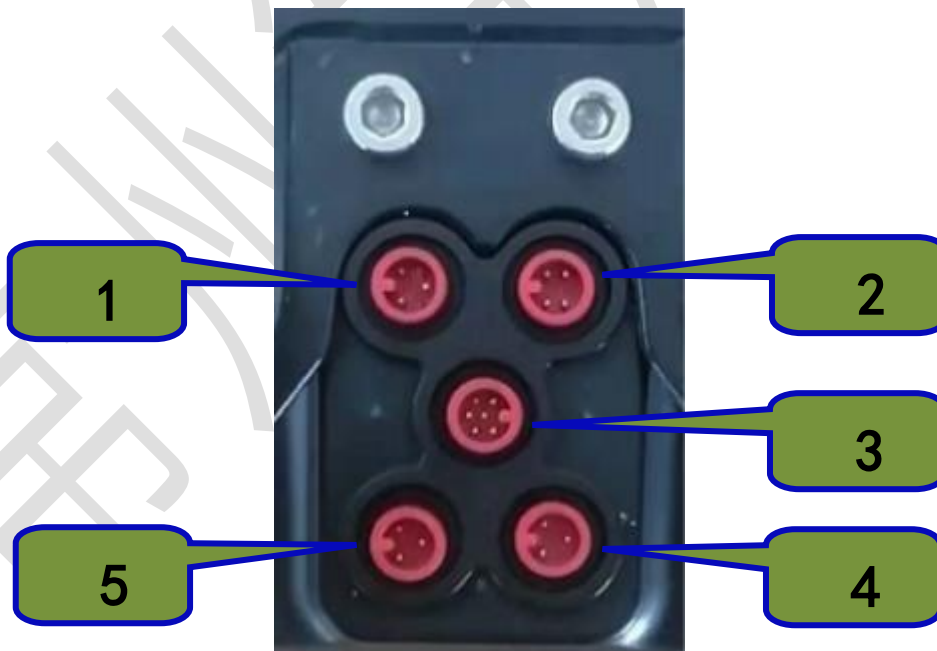**P16**：Auto cruise setting，   1:Auto cruise Activated   0 Auto cruise Locked ；   Default: 0

P99：Restore to initial settings

Enter the menu, short press the plus or minus key, the value 00099 flashes, and the   display returns to the main interface after long-pressing the plus key for 5 seconds, the setting is successfully done.
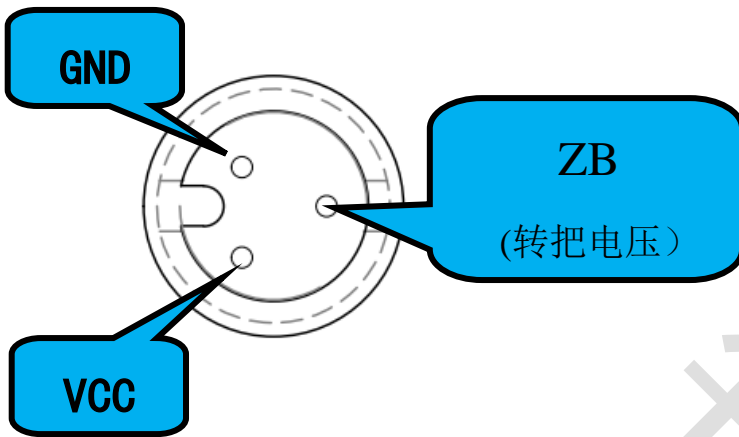
ODO: To clear ODO

In the ODO parameter setting interface, briefly press the + button and then press and hold for 5-6 seconds until the number is zero.
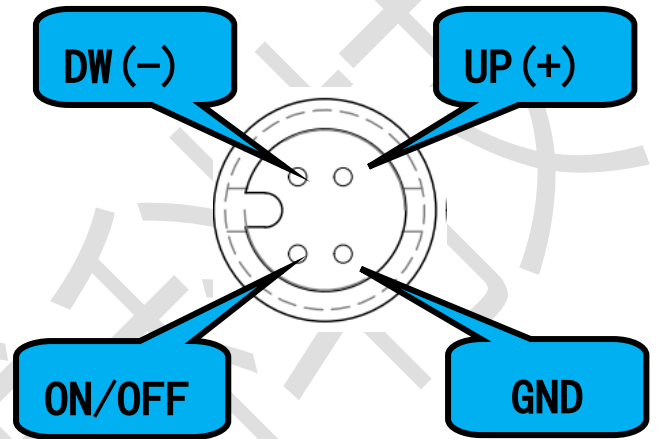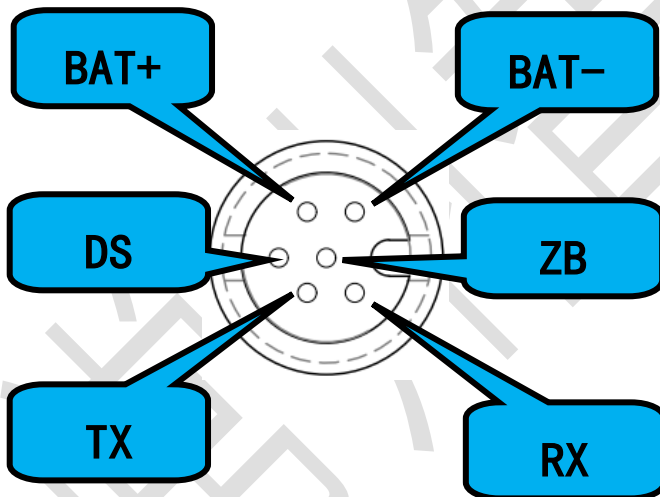
● **INTRODUCTION OF CONNECTORS AND DEFINITIONS**
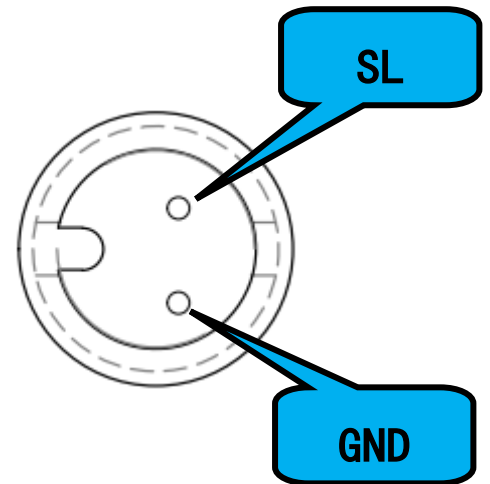
Connector 1:   3P-accelerator interface

GND

ZB

(转把电压）

VCC

Connector 2: 4P-Three-position button interface

DW（−）

UP（+）

ON/OFF

GND

Connector 3: 6p-Instrument connection controller interface

BAT+

BAT−

DS

ZB

TX

RX

Connector 4&5: 2P-brake interface

SL

GND

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