# KT-INS01 E-Bike Display User Manual   V1.0

Dear customer, please read this manual before you use KT-INS01 Display. The manual will guide you use the instrument correctly to achieve a variety of vehicle control and vehicle status displays.

1.Functions and Display

Instrument adopts the structural form of integrated design of the main part of the instrument and the operation button.
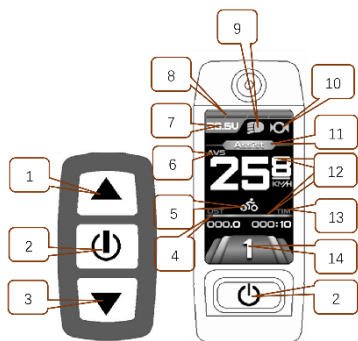
1	▲	UP Button	8	▰▰▰▰	Battery capacity indicator
2	⏻	SW Button	9	⧤	headlights
3	▼	DOWN Button	10	⏥	The brake display
4	DST	Trip distance	11	Assist	ASSIST display
	ODO	Total distance		Throttle	Throttle display
5	🚲	Rear drive mode	12	KM/H	Riding speed(metric)
	🚲	Dual drive mode	13	TIM	Single trip time
6	AVS	Average speed		TTM	Total trip time
	MXS	MAX speed	14	PAS	PAS levels
7	VOL	Battery voltage			

2.Operation

1. ON/OFF

Hold ⏻ button for a long time to turn on the power, press and hold ⏻ for a second time to turn off the power. When the motor stops driving or the e-bike is not used for a consecutive 5 minutes, it will automatically shut down and turn off the motor power supply.
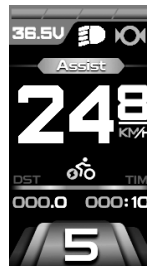
2. Display 1

Hold ⏻ button to start up and enter display.

2.1 Turn on headlights

To turn on the vehicle lights, the controller must be equipped with a headlight drive output function。

2.2 Assist ratio gear (Assist) switch

Press ▲ or ▼ to switch 0-5 file gears (N is gear 0). Gear 1 is for the minimum power, gear 5 is for the highest power. Each time the device is started, it will automatically restore the last gear used before shutdown (users can customize the default gear). Gear 0 is without booster function.

2.3 Dual drive mode

Long press ▼, rear drive mode 🚲 changes to dual drive mode 🚲. Long press ▼ again to return to rear drive mode.

2.4 display and delete of single data

After power on for 5 seconds , hold ▲ and ▼ at the same time, single trip riding time (TIM) and single trip distance (DST) flash, hold ⏻ shortly, the content of both is cleared. If you fail to hold the button within 5 seconds, it will automatically return the display interface, original content is preserved.

3. Display 2

Press ⏻ in Display 1 to enter display 2. In riding mode, after 3 seconds, Display 2 will automatically return to Display 1.

4. Display 3

Press ⏻ button in display 2 to enter display 3. In riding mode, after 3 seconds, the maximum speed (MXS) display will automatically switch back to the real-time riding speed (Km/h).

5. In display 3, hold ⏻ shortly (SW), and the display will enter display 1.
6. Hold ⏻ button to turn off the display and the power supply of controller.
7. Automatically prompt interface

    7.1   Error Code Display：   Motor position sensor fault!

                                   Motor or controller short circuit fault!

                                   Throttle fault！

Once the fault was removed, it automatically exits from the fault code display interface.

3、 General Project Setting
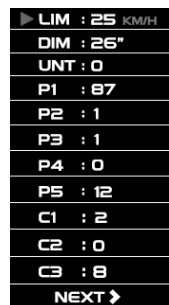
1. Set Max speed

Within 5 seconds after power on, hold ▲ and ▼ at the same time to enter General Setting interface, move to maximum speed setting LIM , press ⏻ button LIM flash, press ▲ or ▼ to set the maximum riding speed. Press ⏻ button Maximum riding speed stop flashing, then press ⏻ to save.
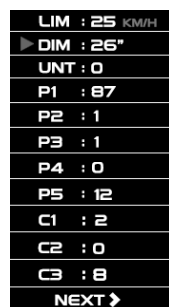
2. Wheel diameter setting

Move to DIM，press ⏻, and it will flash to enter the DIM setting, press ▲and▼ to set wheel，options include 5、6、8、10、12、14、16、18、20、23、24、26、27.5、700C、28 and 29 inches. Press ⏻ to stop flashing and save.
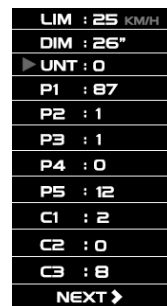
3. Set the metric units

Move to UNT，press ⏻,to enter UNT setting when it flashes , chosen field is within 0、1、2、3. Press ⏻ button to save and press ▼ to go to the next parameter settings.
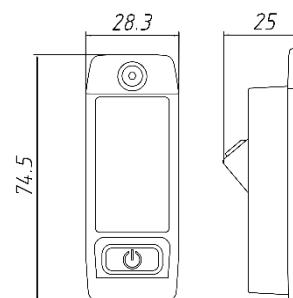
Code	Speed	Mileage
UNT:0	Km/h	Km
UNT:1	MPH	Mil
UNT:2	Km/h	Km
UNT:3	MPH	Mil

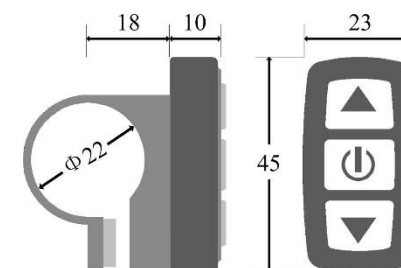### 4. Exit from routine project setting

After completing each of the three routine settings, you can exit the setting mode and return to the display interface by holding ⏻ button long after each setting is completed, meanwhile the setting values will be saved

4.Outline Drawings and Dimensions

1. Dimensions of main instrument body   2. Dimensions of button box

3. Wiring diagram

36V	Red
Control	Blue
GND	Black
Data1	Green
Data2	Yellow