USERS GUIDE
790-R LED
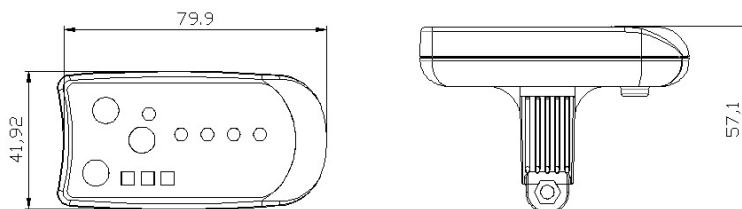
Content

Preface

Dear users, in order to better operate your e-bike, please read the manual of the 790-R LED display carefully before use. We will use the most concise language to tell you every aspect of the instrument's use, including hardware installation and setting to the normal use of the display. At the same time, it helps you to solve the confusion and obstacles that may arise.

1. Appearance and Dimensions

1.1 Materials and Color

The 790-R LED product shell uses white and black PC materials. The material of the shell allows normal use at a temperature of -20°C to 60°C, and can ensure good mechanical properties. Display dimension (unit: mm)
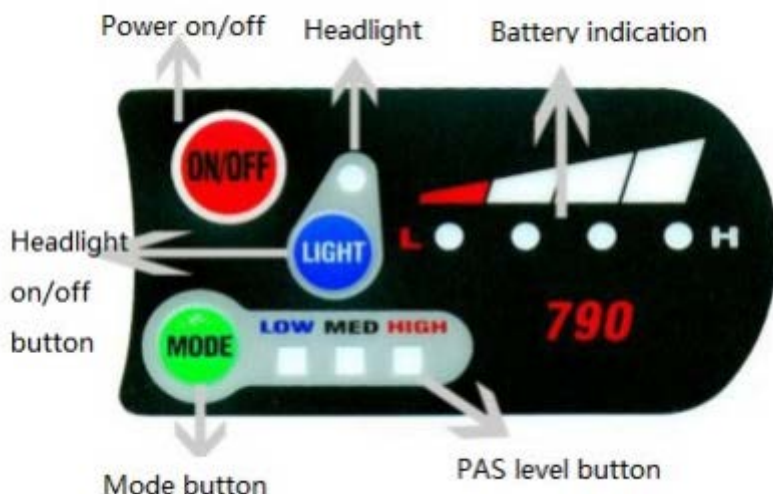
2. Functions and Button Definition

2.1 Functions Summary

790-R provides you with a variety of functions and displays to meet your riding needs. The contents displayed as follows:

◆ Battery Indication

◆ PAS level Indication

◆ 6km/h Walk assist function Indication

◆ Headlight on and off

◆ Error Codes

◆ RFID function

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2.2 Button Definition

There are three buttons on the 790-R display. Including power switch button, mode button and headlight switch button. In the following description, the switch button is replaced with the text "ON/OFF". The mode button is replaced by the text "MODE", and the headlight switch button is replaced by the text "LIGHT".

3. Precautions

Pay attention to safety during use, and do not plug or unplug the meter when the power is on.

Avoid striking or knocking the display.

Do not remove the waterproof film attached to the display as this may impair its waterproofing

Don't modify system parameters to avoid parameters disorder.

In the case of errors or malfunctions the display should be returned to your local supplier for repairs/replacements.

4. Installation Instruction

Fix the display on the handlebar and adjust the viewing angle. When the e-bike is powered off, just plug the connector of the display and the corresponding connector of the controller to complete the installation.

5. Operation Instruction

5.1 Power ON/OFF

After pressing the ON/OFF button shortly, the display starts to work and provides the controller working power. In the power-on state, short press the ON/OFF button to turn off the power of the electric vehicle. In the shutdown state, the meter no longer uses battery power, and the leakage current of the meter is less than 1uA.
If the e-bike is not used for more than 10 minutes, the display will automatically shut down.

5.2 RFID function

5.2.1 Binding RFID card

Swipe the main card in the prompt swiping interface, turn off the battery after the battery light flashes, and turn it on again to enter the card matching interface. After booting, it first prompts to match the main card. At this time, the fourth battery light is always on, and the third light flashes. At this time, the swiped card is regarded as the main card; then it prompts to match the secondary card 1, at this time the fourth The power light is always on, the third and second power lights are turned on in turn and then go out. Repeat the cycle before completing the secondary card 1 matching. At this time, the swiped card is recognized as secondary card 1; then it prompts to match secondary card 2. At this time, the fourth battery light is always on, and the remaining three battery lights turn on from high to low and then go out. Repeat the cycle before completing the secondary card 2 matching. At this time, the swiped card is recognized as secondary Card 2. After all three cards are configured, the battery indicator flashes and then shuts down. Power on again and enter the prompt swiping interface. At this time, the three cards have been updated to the newly equipped three cards.

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5.2.2 Swipe RFID Card

When the display is turned on normally, there will be a prompt swiping interface. When the prompt swiping interface is turned on, the level indication will turn on from high to low, and all lights will go out. It will display in a loop until the card is swiped. At this time, swiping the secondary card directly enters the main interface and starts to work; swiping the main card power indicator flashes and then shuts down, and powers on again to enter the card matching interface.

5.3 6km/h Walk assist function

Hold the MODE button after 2 seconds, the e-bike enters the state of walk assist. The e-bike is riding at a constant speed of 6 km/h, and the level position indicator is not displayed.
The power-assisted push function can only be used when the user pushes the e-bike, please do not use it when riding.

5.4 Headlight on and off

Pressing the LIGHT button, notify the controller to turn on the front light. Pressing the LIGHT button again to turn off the headlights.

5.5 PAS level setting

Short press the MODE button to switch the power-assisted level of the e-bike and change the output power of the motor. The default output power range of the meter is 0-3 level, level 0 is no output level, level 1 is the lowest power, and level 3 is the highest power. The default level when the display turned on is level 1.

5.6 Battery Indication

When the battery voltage is high, the four LED power indicators are all on. When the battery is under voltage, the last power indicator flashes for a long time, indicating that the battery is seriously under voltage and needs to be charged immediately.

6. Error Codes

When the e-bike electronic control system fails, the display will automatically flash the LED light to indicate the error code. For the definition of the detailed error code, see Appendix 1.

The fault display interface can only be exited when the fault is eliminated, and the e-bike cannot continue to drive after a fault occurs.

7. FAQ

Q: Why can't turn on the display?

A: Please check whether the battery is turned on or the leakage lead wire is broken

Q: How to deal with the error code display?

A: Contact the e-bike maintenance station in time

8. Quality Assurance and Warranty Scope

I, Warranty Information:

1, King-Meter will be responsible for all faults arising during normal operation that are caused by a quality defect.

2, The warranty time is 18 months from the day the display leaves the factory.

II, The following are not covered by warranty:

1, Shell opened.

2, Connector damaged.

3, After display out of factory, the shell is scratched or damaged.

4, Lead wire of display scratch or break.

5, The fault or damage is caused by the force majeure (such as fire, earthquake, etc.) or natural disasters (such as lighting, flooding, etc.)

6, Product exceeded warranty period.

9. Version No.

The user manual of this display is the general software version (V1.0 version) of Tianjin King-Meter Technology Co., Ltd. The version of display software used on some bike may be slightly different from this manual, and the actual version shall prevail.

Attached Table 1:   Error code definition table

Error code	Definition
PAS level 1 light flashing	Current abnormal
PAS level 2 light flashing	Throttle abnormal
PAS level 1, 2 light flashing	Motor phase loss
PAS level 3 light flashes	Motor Hall signal is abnormal
PAS level 1, 3 light flashing	Braking abnormal
All PAS Level light flashing	Communication abnormal
All of the battery indication lights and Level lights flashing at the same time	Power on/off button sticking
All of the battery indication lights flashes	6km button sticking
All of the battery indication lights and Level light flashing alternately	Register error

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