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KING-METER KM529 EBike Control Instruments Kits Controller Panel

KING-METER KM529 EBike Control Instruments Kits Controller Panel User Guide

Contents

KING-METER

KING-METER KM529 EBike Control Instruments Kits Controller Panel

Product Information

Specifications

- Product Name: KING-METER
- Model Number: KM529
- Material: PC
- Temperature Range: -20°C to 60°C
- Display Dimensions: (unit: mm)

Function Summary

KM529 provides the following functions and indicators:

- Battery Indicator
- Speed Display (including real-time speed, average speed, and max speed)
- Trip Distance and Total Distance
- PAS Level Selection
- Headlight On/Off
- Error Code Indicator
- Various Parameters Setting (wheel size, speed-limited, backlight brightness, etc.)

Appearance and Size

KM529 products are made of PC. The shell material ensures normal usage and good mechanical performance within the temperature range of -20°C to 60°C.

Product Usage Instructions

Operation Cautions

- Be careful with safety use.

- Do not attempt to release the connector when the battery is powered on.
- Avoid hitting the product.
- Avoid wetting the product.
- If the display doesn't work normally, take it for repair.

Installation Instruction

1. Fix the display onto the handlebar.
2. Adjust to an appropriate visual angle.
3. Tighten all the connectors.

Normal Operation

Power On/Off

- To power on the display and the controller, press the button for 2 seconds.
- To turn off the power system of the e-bike, press the button for 2 seconds (display must be on).
- If the display is off, both the display and controller shut down.
- The leakage current of the display in shutdown state is less than 1A.
- The display will shut down automatically if the e-bike is not in use for 10 minutes.

Speed Display (Real-time speed/Average speed/Max speed)

- After starting up the display, the default show is real-time speed.
- Long press both buttons to change the indicated information in sequence:
    1. Real-time Speed (Km/h)
    2. Average Speed (Km/h)
    3. Max Speed (Km/h)

Distance Display (Trip Distance/Total Distance)

- After starting up the display, the default show is real-time speed.
- Press the button to change the indicated information in sequence:
    1. Trip Distance (km)
    2. Total Distance (km)
- Long press both buttons to reset the trip distance to zero.

Turn on/off Backlight

- Press the button for 2 seconds to turn on the backlight of the display (headlight will be on at the same time).
- Hold the button for 2 seconds again to turn off the backlight.

PAS Level Selection

- Press the button or button to change the output power of the motor.

- The power ranges from level 1 to level 5, with level 1 being the minimum power and level 5 being the maximum power.
- The default value is level 1.

FAQ

Q: How do I reset the trip distance?

A: Long press both buttons to reset the trip distance to zero.

Q: How long does it take for the display to shut down automatically?

A: The display will shut down itself automatically if the e-bike is not in use for 10 minutes.

About the User Manual

Dear users,
To ensure better performance of your e-bike, please read through the KM29 product introduction carefully before using. We will use the most concise words to inform you of all the details including the hardware installation, setting and normal operation use of the display when using our display. Meanwhile, the introduction will also help you to solve the possible confusion and malfunctions.

Appearance and Size

KM529 products are made of PC. Under the temperature of -20 to 60℃, the shell material can ensure normal usage and good mechanical performance. Real product and dimension figure (unit: mm)
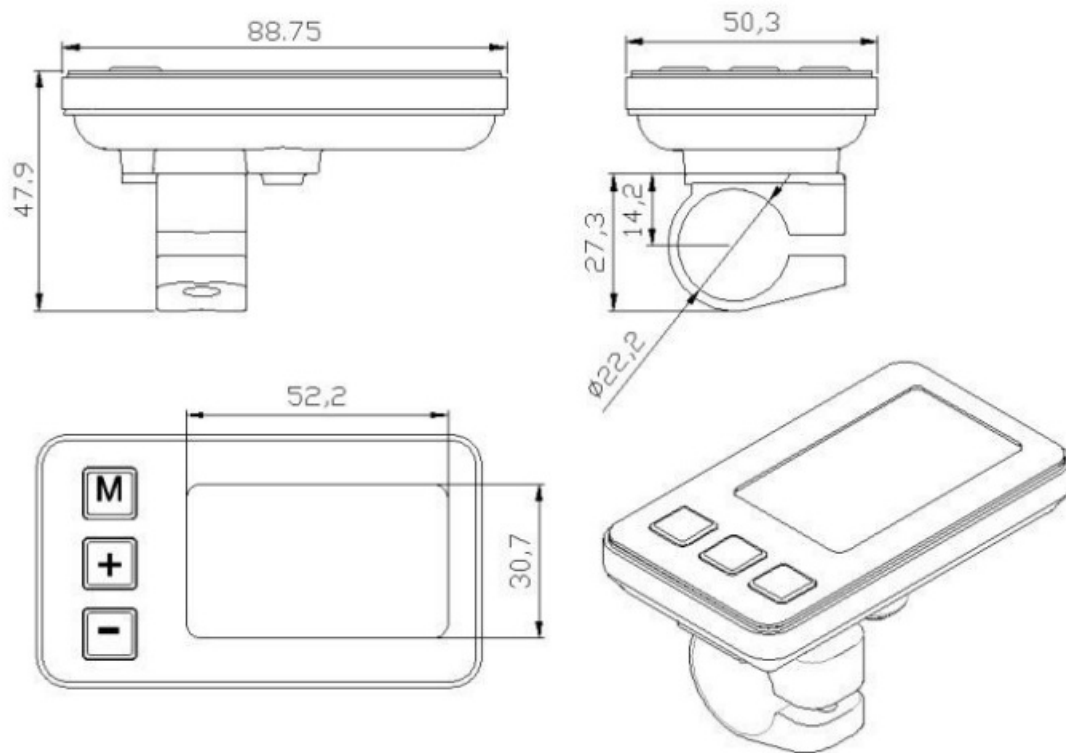
Function Summary

KM529 provides a wide range of functions and indicators to fit for users' needs. The indicated contents are as follow.

- Battery Indicator
- Speed Display (including real-time speed, average speed and max speed)
- Trip distance and total distance
- PAS Level Selection
- Headlight On/Off
- Error Code Indicator
- Various Parameters Setting, such as wheel size, speed-limited, backlight brightness and so on.

Monitor Area
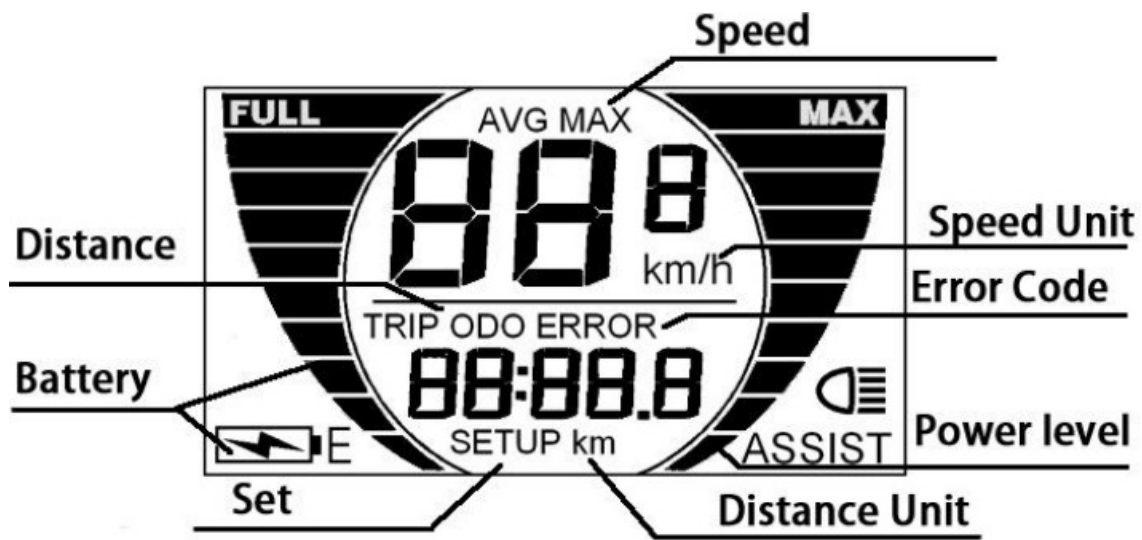
KM529 Monitor Area

Operation Cautions

Be care of the safety use. Don't attempt to release the connector when battery is power on.

Try to avoid hitting.

Try to avoid wetting.

Make the display repaired when it doesn't work normally.

Installation Instruction

Fix the display onto the handlebar and adjust to an appropriate visual angle. Tighten all the connectors.

Normal Operation

Power On/Off

Press Button **M** for 2 seconds then the display will power on, and the controller will power on at the same time.

With display on, Press Button **M** for 2 seconds to turn off power system of the e-bike. With the display off, the display and controller shut down. The leakage current of display on shutdown state is less than 1μA

When the e-bike is without using for 10 minutes, the display will shut down itself automatically.

Speed Display (Real-time speed/Average speed/ Max speed)
After starting up the display, default show is real-time speed.

Long press both **M** and **+** buttons for 2s to change the indicated information in sequence as below: Real-time Speed (Km/h) → Average Speed (Km/h) → Max Speed (Km/h).

Real-time speed   Average speed   Max speed

Distance Display (Trip Distance/ Total Distance)

After starting up the display, default show is Real-time speed.

Press button ![M] to change the indicated information in sequence as below: Trip Distance (km) →Total Distance

(km). Long press the two buttons ![M] and ![−] , the trip distance will be reset to zero.
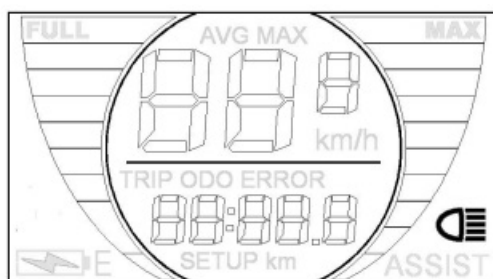

Trip Distance (TRIP)   Total Distance(ODO)

Turn on/off Backlight

Press button ![+] for 2 seconds to turn on the backlight of the display, the headlight will be on at the same time.
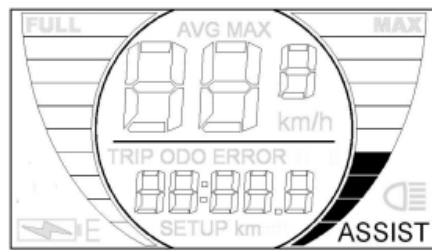
Hold Button ![+] for 2 seconds again, backlight is off.
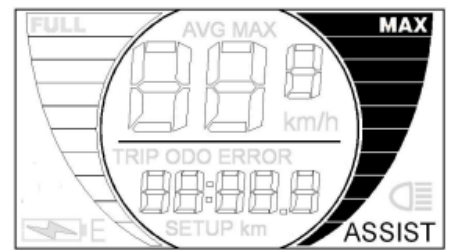

Turn On Backlight

PAS Level Selection

Press button ![+] or button ![−] to change the output power of the motor. The power ranges from level 1 to level 5. Level 1 is the minimum power. Level 5 is the maximum power. The default value is level 1.
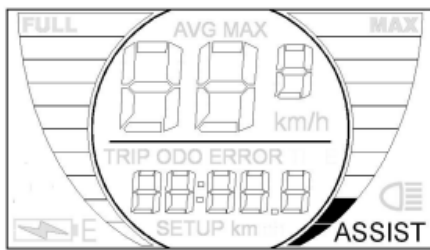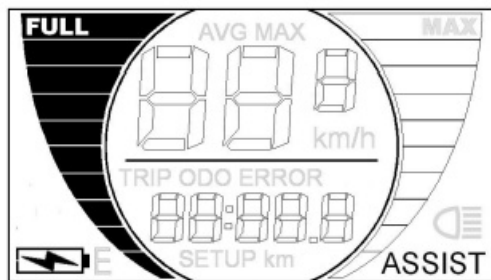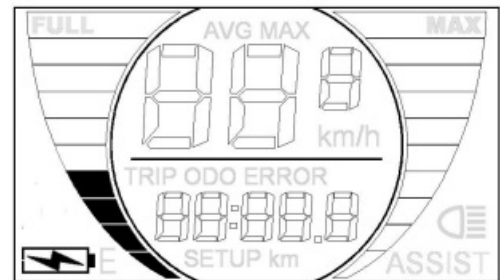
PAS Level 1

PAS Level 2
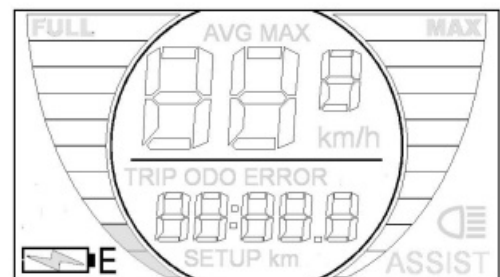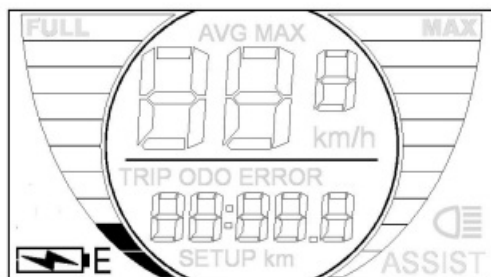
PAS Level 5

Battery Indicator

The display shows the battery capacity in 5 levels. When the battery is in high voltage, the word FULL will show on the top of screen. When the battery is under-voltage, the letter E will be shown on the bottom of screen and the LCD indictor will flash, please charge the battery.
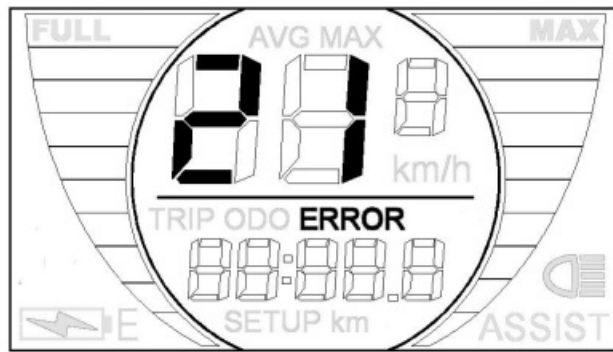
High voltage

Low voltage

Under-voltage Flash

Battery indicator

Error Code Information

If there is something wrong with the electronic control system, the error code will appear automatically. When error appears, please check the corresponding part of e-bike or sent the display to be repaired.

Error Code

Following is the detail information of error code

Error Code	Definition	Solution
21	Current Abnormality	Inspect if motor phrases short-circuits
22	Throttle Abnormality	Inspect if throttle recover original state
23	Motor Abnormality	Inspect if motor phrase is well-connected; Inspect if lines are well-connected between motor phrases and controller.
24	Motor Hall Signal Abnormality	Non-Hall Controller Inspect if motor phrase is well-connected; Hall Controller Inspect if motor hall is well-connected.
25	Brake Abnormality	Inspect if brakes original state before display startup.
30	Communication Abnormality	Inspect if lines are well-connected between display and controller.

General Setting

When the display power on, press both ➕ and ➖ buttons for 2 seconds to enter the setting menu. When the display is on status of general setting, press the button M for 2 seconds to quit setting menu.

Wheel Diameter Setting

Press button ➕ and ➖ to select the correct value to match the wheel diameter. Selectable values include:

16 inch 18inch 20 inch 22 inch 24 inch 26 inch 700C 28 inch Default diameter is 26 inch.

Press button ⏻M to confirm the value of wheel diameter and enter next setting at the same time.

Wheel Diameter setting

Speed-limit Setting

When the running real-time speed is faster than the value of limited- speed you set, the controller will cut off the motor power to protect the rider's safety. Limited speed default setting value is 25Km/h. the values of Limit-Speed range from 12Km/h to

40Km/h. Press **+** and **—** to select the favorite value, Press ⏻M to confirm. Then enter the next setting.
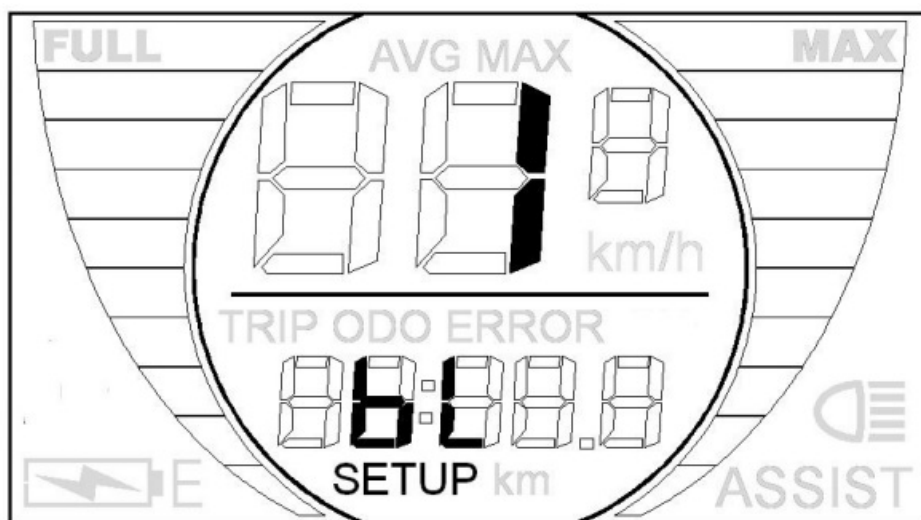
Limit Speed Setting

Backlight Contrast setting

"bL" means backlight. Level 1 is low brightness. Level 2 is the middle brightness. Level 3 is high brightness. The default level is

1. Press button **+** and **—** to modify the backlight brightness.

   Press button ⏻M to confirm.

Backlight Brightness setting

Connection layout

Following is the standard connector of display to connect the controller.

Standard Connector   Display-side terminal   Terminal of plug-in wire

Line sequence table

Line sequence	Color	Function
1	Red VCC	Power +
2	Blue(K)	Switch
3	Black(GND)	Ground
4	Green(RX)	Received Data
5	Yellow(TX)	Transmitted Data

Some wire use the water-proof connector, users are not able to see the inside color.

Barcode

The barcode is built up as follows:

KM529000001

12063101801

- KM529 = Name
- 000001=Sequence No.
- 12=Year of Production
- 06=Week of Production
- 3=Battery Voltage (2 is 24V, 3 is 36V, 4 is 48V)
- 1= Delivery form 1 is sample, 2 is mass production
- 01=Hardware version No.
- 801=Software version No.

FAQ

Q: Why the display is not able to start up?
A: Check the connector between display and controller.

Q: How to deal with the error code?
A: Fix it to the maintenance place immediately.

Quality assurance and warranty scope

Warranty
1) In guarantee period, display itself appears any quality problems when it is used correctly our company will be responsible for warranty.
2) The warranty time is 24 months when display out of the factory.

Other items
The following items do not belong to our warranty scope.

1. It can not be demolished.
2. The damage is caused by wrong installation or operation.
3. Shell is broken when display is out of the factory.
4. Wire is broken.
5. The fault or damage is caused by the force majeure (such as fire, earthquake, etc,) or natural disasters like lighting, etc.
6. Beyond warranty period.

Version changes

This operating instruction is a general-purpose version. Some of the version for the display software will be different from the specification, which should depend on the actual use version.

Documents / Resources

KING-METER KM529 EBike Control Instruments Kits Controller Panel [pdf] User Guide
KM529 EBike Control instruments Kits Controller Panel, KM529, EBike Control instruments Kits Controller Panel, Control instruments Kits Controller Panel, instruments Kits Controller Panel, Kits Controller Panel, Controller Panel

References

- Ⓜ **Manual-Hub.com - Free PDF manuals!**
- **User Manual**