USERS GUIDE

N5236

CONTENT

1. Preface

Dear users,

To ensure better performance of your e-bike, please read through the N5236 product introduction carefully before using it. We will use the brief words to inform you of all the details (including hardware installation, setting and normal use of the display) when using our display. Meanwhile, the introduction will also help you solve possible confusion and barriers.

2. Appearance, Size and Material

N5236 housing material: PC. Under the temperature of -20℃ to 60℃, the housing material can ensure normal use and good mechanical performance of the product.

Display Size and Installation Size (Unit: mm)
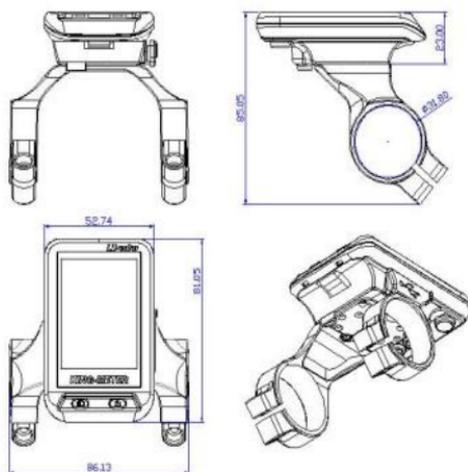
N5236 remote button connects to the bottom of

display with a cable. In the following introduction, Power button is named as "**POWER**", Light button is names as "**LIGHT**", ⬆ is named as "**UP**", ⬇ is named as "**DOWN**", Ⓜ button is named as "**MODE**".

3. Function Summary

N5236 offers plenty of functions and showing to meet your requirements. The indicated contents are as following:

◆Battery indicator
◆Motor power
◆Speed(including Current speed, Max speed and Average speed)
◆Trip distance and ODO
◆PAS level
◆Light ON/OFF
◆6KM/H walk assist
◆USB charging/ communication function
◆GPS Bluetooth positioning function
◆Error code

◆Multiple parameter setting: Wheel size, Speed limit,
  Unit, Backlight brightness, Trip clearance,
  Software version.
◆Photosensitive backlight (Automatically adjust the
screen backlight according to the ambient light
intensity)

4. Main Display Figures

There are mainly three display interfaces:
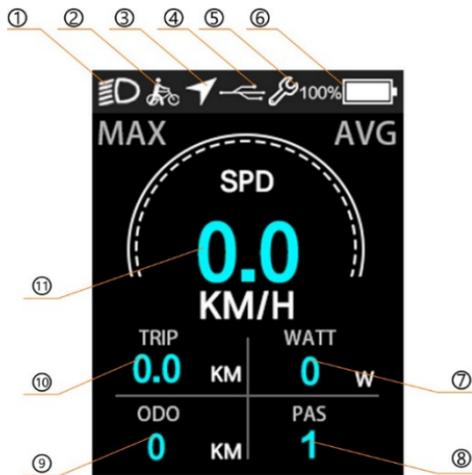
N5236 normal display area

① Light;
② 6KM/H walk assist;

③ Bluetooth GPS positioning;
④ USB charging/communication;
⑤ Maintenance alert;
⑥ Battery indicator;
⑦ Motor power;
⑧ PAS level;
⑨ ODO;
⑩ TRIP distance;
⑪ Current speed/Average speed/Max speed.
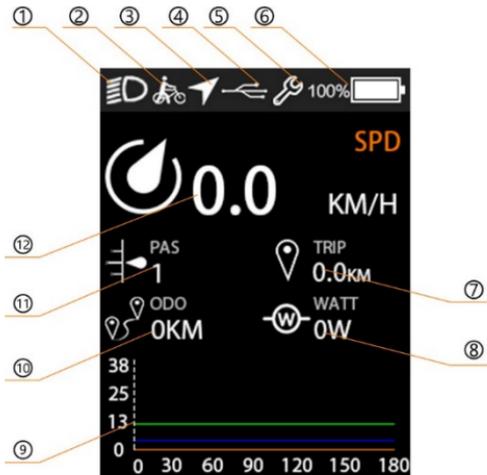
N5236 detail information display interface

① Light;
② 6KM/H walk assist;
③ Bluetooth GPS positioning;
④ USB charging/communication;
⑤ Maintenance alert;

⑥ Battery indicator;

⑦ TRIP distance;

⑧ Motor power;

⑨ Curve of the current speed;

⑩ ODO;

⑪ PAS level;

⑫ Current speed/Average speed/Max speed.

N5236 navigation interface

5. Operation Cautions

When the display shows the wrench icon, go to the dealer for maintenance.

6. Standard Operation

6.1 Power On/Off

Hold "**POWER"** button for 2 seconds to start the display. When at working state, hold "**POWER"** button for 2 seconds to shut off e-bike power. In the

off state, the display no longer uses the battery's power supply; leakage current is less than 1uA. If the e-bike is not used for more than a period of time, the display will shut down automatically.

6.2 Speed Display

After turning on display, it shows real time speed. Shortly press "**MODE**" button to switch information, showing as current speed→ max speed→ average speed.

Normal display interface:

  Current speed   Max speed   Average speed

Detailed information interface:

Current speed   Max speed   Average speed

6.3 Turn on/off Headlight

Under the main interface, press the "**LIGHT**" button to turn on/off the headlight.

Normal display interface:

Light turned on interface

Detailed information interface:

Light turned on interface

6.4 6KM/H Walk Assist

When in PAS level 1, press the "**DOWN"** button to enter walk assist preparation mode and the walk assist icon flashes. In this preparation mode, hold the "**DOWN"** button to enter the 6km/h walk assist mode and let go to exit the walk assist mode.

Normal display interface:

6km/h walk assist interface

Detailed information interface:

6km/h walk assist interface

6.5 PAS Level Adjustment

Press "**UP"** or "**DOWN"** button to adjust the PAS levels and change output power of the motor. The default output power range is 1-3 levels, with level 1 being the lowest power and level 3 being the highest power. Startup default level 1.

Normal display interface:

PAS 1 PAS 3

Detailed information interface:

PAS 1 PAS 3

6.6 Battery Indicator

When the battery voltage is high, the battery indicator shows full grid. When the battery capacity is relatively low (<=20%), the battery indicator will show yellow; when the battery capacity is quite low (<=10%), the battery indicator will turn red, indicating that the battery is under voltage and needs to be charged immediately.

Normal display interface:

Battery power indicator Low battery voltage   Under voltage

Detailed information interface:

Battery power indicator   Low battery voltage   Under voltage

6.7 Auto Backlight

When the brightness of the surrounding environment changes,the display will automatically control the brightness of the screen backlight through the built-in photosensitive element. When the external environment becomes dark, the backlight will be dimmed synchronously, and when the external

environment is bright, the backlight will be brighten synchronized.

6.8 USB Charging

Connect the USB device before power on the display, turn on the power to charge the USB device, the USB icon will lights up, remove the USB device, and the USB icon turns off after 2 Seconds; If the USB device is connected after starting up the display, hold "**UP**", "**DOWN**" and "**MODE**" buttons to start the charging function. If there is a USB device connected, the USB device will be charged, and the USB charging icon will be on. If the USB device is removed, the USB charging icon will be turned off after 2S.

Normal display interface:

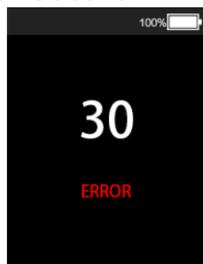USB Charging interface

Detailed information interface:

USB Charging interface

6.11 Error Code

When the system is wrongly working, display will show the error code automatically. Only when the fault is eliminated can the error display interface be exited, and the e-bike will not be able to continue driving after the error occurs.

Error display interface

Common error codes and definition:

Item	Definition	Level	Error Code	Statement
Controller	Overcurrent	Shutdown	0x27	
	Overvoltage	Shutdown	0x07	
	Under voltage	Shutdown	0x06	No error code displays, only the battery icon flashes
	Braked	Shutdown	0x03	Not shown on display
	Throttle not returned	Shutdown	0x05	
	Throttle fault	Shutdown	0x04	
	Low voltage protection	Shutdown	0x31	
	Over voltage protection	Shutdown	0x32	
	Motor Hall fault	Shutdown	0x08	
Controller	Motor phase line fault	Shutdown	0x09	

	Motor temperature reached protection point	Shutdown	0x10	
	Motor temperature sensor fault	Shutdown	0x11	
	Controller temperature reached protection point	Shutdown	0x14	
	Controller temperature sensor fault	Shutdown	0x15	
	Current sensor fault	Shutdown	0x12	
	Headlight fault	Ordinary	0x23	
	Brake detection circuit fault	Shutdown	0x33	
	15V Power supply detection fault	Shutdown	0x35	

	Button detection circuit fault	Shutdown	0x36	
	Speed sensor fault	Shutdown	0x21	
	Watchdog fault	Shutdown	0x37	
sensor	Torque sensor torque signal fault	Shutdown	0x25	
	Torque sensor speed signal fault	Shutdown	0x26	
	Watchdog fault	Shutdown	0x38	
Derailleur	Derailleur stuck	Shutdown	0x61	
	Derailleur cannot reset	Ordinary	0x62	
Bluetooth	Bluetooth module fault	Ordinary	0x81	
Battery	Total voltage too high (Battery)	Shutdown	0x41	
	Total voltage too low (Battery)	Shutdown	0x42	

	Total current too high (Battery)	Shutdown	0x43	
	Unit voltage too high (Battery)	Shutdown	0x44	
	Temperature too high (Battery)	Shutdown	0x45	
	Temperature too low (Battery)	Shutdown	0x46	
	SOC too high (Battery)	Shutdown	0x47	
	SOC too low (Battery)	Shutdown	0x48	
	Unit voltage too low	Shutdown	0x49	
	Battery short circuit	Shutdown	0x4A	
	Temperature difference	Shutdown	0x4B	
	Unit pressure difference	Shutdown	0x4C	
	Fuse	Shutdown	0x4D	
	Other faults	Shutdown	0x4E	

Display	Communication failure with controller	Shutdown	0x30	Communication failure between display and controller. Other communication faults should be detected by BESST tools
	Communication failure with intelligent module	Shutdown	0x39	The display cannot detect the heartbeat of the intelligent module, and the controller cannot detect the heartbeat of the intelligent module, shutdown

|	Communication failure with ABS	Regular work	0xC1	The display with ABS system cannot detect the ABS information. Display without ABS will not report this fault
E-lock	E-lock stuck	Shutdown	0x71	

7. Settings

7.1 Settings

In the main display interface and when current speed is 0,hold the "**UP**" and "**DOWN**" button at the same time to enter the setting interface. Shortly press the "**MODE**" button to switch the setting items, which are as follows: wheel size check - speed limit check - software version - unit setting - backlight brightness

setting - single trip distance reset setting - wheel size check.
In the setting interface, press and hold the "**MODE**" button (> 2S) to exit the setting interface.

7.2 Wheel Size Check

In the setting interface, you can check the current wheel size under the wheel size check option interface.
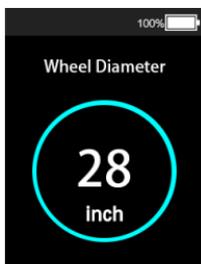
Wheel size check interface

7.3 Speed Limit Check

In the setting interface, you can view the maximum riding speed of the e-bike. When the speed exceeds the set value, the controller will stop the power supply to the motor to protect the safety of the rider.
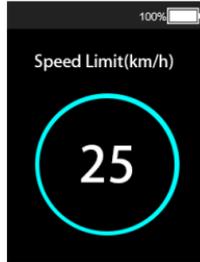
Speed limited check interface

7.4 Software Version

In the setting interface, you can check the current software version number under the software version view option interface.


Software version interface

7.5 Unit Settings

Unit setting can set the unit of speed and mileage displayed by the display. The default setting is metric

unit (Km/h, Km). Shortly press the "**MODE**" button to enter the unit setting interface. Shortly press the "**UP**" or "**DOWN**" button to switch between metric unit (km/h) and imperial unit (mph). Press the "**MODE**" button again to confirm the setting item, save and exit the unit setting interface at the same time.
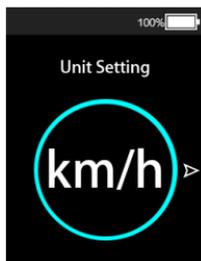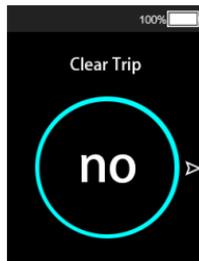

Unit setting interface

7.6 Backlight Setting

The backlight brightness setting can set the backlight brightness value of the display. The default value of the display backlight is automatic adjustment mode. Shortly press the "**MODE**" button to enter the backlight brightness setting interface. Shortly press the "**UP**" or "**DOWN**" button to select the backlight brightness value (20/40/60/80/100/Auto). Press the "**MODE**" button again to confirm the setting items, save and exit the backlight setting interface at the same time.

Backlight brightness setting interface

7.7 Single Trip Clearance

The single trip reset setting can clear the single trip distance data of the display. Shortly press the "**MODE**" button to enter the setting state of single trip clearance. Press the "**UP**" button or "**DOWN**" button to clear the single distance (YES) or not clear (NO). Press the "**MODE**" button again to confirm the setting items, save and exit the setting interface of single trip reset, and hold the "**UP**" and "**DOWN**" buttons (> 2S) to return to the main interface.

The single trip clearance setting interface

8.Wire Sequence

Note: The following is only an example. The actual product shall be subject to customer requirements.
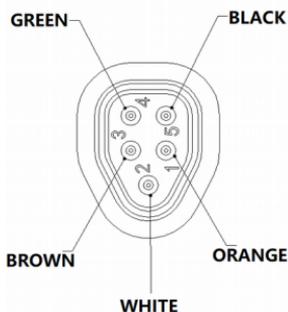
Connecting end with controller

Standard connector wire sequence table (BAFANG)

Standard Wire	Color of standard Wire	Function
1	Brown（VCC）	Power wire of display
2	Orange(K)	Power control wire of controller
3	Black(GND)	Ground wire of display
4	Green(CANH)	Communication wire 1 of instrument
5	White(CANL)	Communication wire 2 of instrument

9. Display Printing Code

If customer has special requirements, print the code according to the customer's requirements.

If the customer has no special requirements, the code printed according to the requirements of Bafang company. The printing code is two lines. The first line is the hardware version number of the display, and the second line is the combination of production date, serial number, and the display's wire length, connector type.

Example: DP C330.C 1.0
720Q1T7290001

10. FAQ

Q: Why can't turn on the display?
A: Please check if the battery is turned on or if the leaking wire is broken.
Q: How to deal with the error code display?
A: Contact the e-bike maintenance station in time.

11. Quality Warranty

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 period is 24 months from the day the display leaves the factory.

3. For the storage and handling of the products, please comply with local laws and regulations and environmental protection requirements.

II. The following are not covered by warranty:
1. Shell opened.

2. Failure or damage is caused by misuse or incorrect installation and debugging by users or third parties.

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

4. Lead wire of display is scratched or broken.

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

6. Product exceeded warranty period.

12. Version Changes

The user manual of this display is the operation manual of the general software version (version 1.0) of King-Meter Technology Co., Ltd. The version of the display software used on some vehicles may be slightly different from this manual, and the actual version used shall prevail.

*K*ING-METER