



产品规格书

Product Specification

Product Model 产品型号: N5-CT-FY3-BC5-V2

Part No 承认书编号		
Prepared by 制定	Checked by 审核	Approved by 批准

变更履历表 Change history		
版本 versions	变更内容 describe	日期 Change time
V1	新增	2023-08-10

一、图标指示 Icon indication



1	左右转向灯显示：打开对应转向功能时闪烁亮起，关闭后熄灭 Left and right turn signals Display: flicker when the corresponding steering function is turned on, and then go out when it is turned off.
2	大灯显示：开启前大灯时亮起，关闭前大灯时熄灭 Headlight Display: lights up when the headlights are turned on, and goes out when the headlights are turned off
3	蓝牙图标：未连接 APP 时不亮，连接时亮起；无蓝牙版本不亮 Bluetooth icon: does not light up when APP is not connected, lights up when connected; No Bluetooth version does not light up
4	定速巡航：启动定速巡航时图标亮起，未启动时熄灭 Cruise control: the icon lights up when the cruise control is started, and goes out when it is not started
5	故障图标：对应配件损坏/功能异常时亮起 Fault icon: lights up when the corresponding parts are damaged/function is abnormal
6	氛围灯造型显示：仪表边框造型，可做动态效果展示 Atmosphere lamp modeling display: instrument frame modeling, can do dynamic effect display
7	单双驱显示：采用红、白双色灯珠，红色亮起为对应驱动模式（例：后驱为后轮亮红色，前轮白色） Single and dual drive Display: red and white two-color lamp beads are used, and the red light is the corresponding drive mode (example: the rear drive is bright red for the rear wheels and white for the front wheels)



8	RGB 动效显示：彩色动态灯效 RGB dynamic effect Display: color dynamic light effect
9	速度显示：用于显示速度、报错码（E1、E2、...） Speed Display: used to display speed, error code (E1, E2,...)
10	速度单位显示：公里/英里单位切换显示 Speed unit Display: km/mile unit switching display
11	电量显示：电池框和左侧最后一格闪烁代表低电量 Power Display: battery box and the last box on the left side flashes to represent low power
12	副数据显示：总里程、小计里程、时间、电压 Secondary Data Display: total mileage, SUBTOTAL mileage, time, voltage
13	行人图标显示：行人模式下亮起，其它档位时熄灭 Pedestrian icon display: lights up in pedestrian mode, and goes out in other gears.
14	温控显示：控制器温度接近最高负荷时亮起； Temperature control display: the controller lights up when the temperature is close to the maximum load;
15	锁定显示：车辆锁定时闪烁 Lock Display: flashing when the vehicle is locked
16	挡位显示：Eco 一档，D 二档，S 三档 Gear Display: Eco 1st gear, D 2nd gear, S 3rd gear

二、操作说明 Operation Instructions

因仪表可搭配不同功能按键，具体操作说明见按键模块说明书详情。

Because the instrument can be equipped with different function keys, see the details of the key module manual for specific operation instructions.

1		“电源”键，长按开关机。 当无实体档位按键时可充当档位切换功能键，短按切换档位，各档位循环切换 "Power" key, long press on and off. When there is no physical gear key, it can be used as a gear switching function key. Press short to switch gears, and each gear will switch cyclically.
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2		“菜单”键，长按可进入菜单选项中，单击可切换副数据显示" Menu" key, long press to enter the menu options, click to switch the secondary data display
36		“灯”键，开关灯" Lamp" button, switch lamp
4		“档位加”键，单击档位增大 "Gear" button, click the gear to increase
5		“档位减”键，单机档位减小 "Gear down" button, single gear down
6		“单双驱切换”键，单机可单双驱切换 "Single and dual drive switching" button, single machine can be single and dual drive switching
7		“喇叭”键，按下时喇叭鸣笛 "Horn" button, Horn whistle when pressed
8	菜单设置 Menu Settings	A 方案: 长按“菜单”键时，可进入设置菜单界面。进入菜单设置后，若当前参数不需要进行修改设置，则短按一次按键后切换到下一个参数设置界面。 A Programme: Long press the "Menu" key, you can enter the setting menu interface. After entering the menu setting, if the current parameter does not need to be modified, press the key once and switch to the next parameter setting interface. B 方案: 连续短按“电源键”三次进入菜单设置界面。仪表会显示 P1、P2、P3……等菜单；例如：当显示 P1 时，下方会显示 0-km 或 1-mile，表示公里/英里选择性设置，长按“电源键”3 秒后，蜂鸣器响 2 秒，数值会闪烁，此时可短按“电源键”选择 1-mile，或 0-km 可切换至相关的单位显示；再长按“电源键”退出，选择其他参数调试；如无操作 8 秒后自动退出参数设置（其他参数设置也相同操作）；进入菜单设置后，若当前参数不需要进行修改设置，则短按一次按键后切换到下一个参数设置界面，比如当前是 P1，若不需要对 P1 进行修改，则短按一次按键就切换到 P2。 B Programme: Short press the "power button" three times to enter the menu setting interface. The meter will display P1, P2, P3..... Such as menu; For example, when P1 is displayed, 0-km or 1-mile will be displayed below, indicating the selective setting of km/mile. After pressing the "power key" for 3 seconds, the buzzer will sound for 2 seconds and the value will flash. At this time, press the "power key" to select 1-mile, or 0-km

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		to switch to the relevant unit display. Press the "power key" for a long time to exit and select other parameters for debugging; if there is no operation for 8 seconds, the parameter setting will be automatically exited (other parameter settings are the same); After entering the menu setting, if the current parameter does not need to be modified, press the key once to switch to the next parameter setting interface, for example, P1 is currently used. If P1 does not need to be modified, press the key once to switch to P2.
9	限速操作 Speed limit operation	A 方案: 关机状态下, 长按仪表“电源”键不放, 直至仪表显示“F1”限速或“F2”不限速状态 A Programme: In the shutdown state, press and hold the "power" button of the instrument until the instrument shows "F1" speed limit or "F2" speed limit state B 方案: 控制器通过单独限速速决定 B Programme: The controller determines the speed through the individual speed limit. C 方案: 捏住刹把, 同时连续短按“电源键”2次切换限速模式(限速/不限速), P7发25/100, 控制器接收到100时不限速, 接收到25时进行限速。 C Programme: Hold the brake handle and press the "power button" twice in a row to switch the speed limit mode (speed limit/no speed limit). P7 sends 25/100. When the controller receives 100, there is no speed limit and when it receives 25, the controller will limit the speed.

进入“设置”界面后, 各菜单定义如下:

After entering the "Settings" interface, the menus are defined as follows:

菜单项 Menu items:	功 能 定 义 Function Definition
P1	设置选择公里/英里, 默认公里。 当显示 0-km 时, 选择公里, 会显示 Km/h; 当显示 1-mile 时, 选择英里, 会显示 mile; Set select km/miles, default km. When 0Km is displayed, Km/h will be displayed; When 1-mile is displayed, select mile and mile will be displayed;
P2	设置电压等级: 36V/48V/52/60V/72V, 默认 60V, 选择电压等级时自动调节欠压值。

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	Set the voltage level: 36V/48V/52/60V/72V, the default 60V, select the voltage level automatically adjust the undervoltage value.
P3	设置车轮直径。单位, inch; 8/8.5/10/11/12/13, 默认 12。 Sets the wheel diameter. Unit, inch;8/8.5/10/11/12/13, default 12.
P4	设置测速磁极数: 范围: 1-100, 默认 30。 Set the number of speed measuring magnetic poles: range: 1-100, default 30.
P5	设置巡航状态: 0 为不巡航, 1 为巡航。巡航未打开时, 巡航图标不亮; 巡航打开后, 巡航图标闪烁; 8S 进入巡航后巡航图标闪烁; 默认不巡航。 Set the cruise status: 0 is not cruising, 1 is cruising. When the cruise is not turned on, the cruise icon does not light up; When the cruise is turned on, the cruise icon flashes; After entering the cruise for 8s, the cruise icon flashes; The default is no cruise.
P6	设置零启动、非零启动。0: 零启动; 1: 非零启动。 开机时显示启动模式, 默认零启动。 Set zero start, non-zero start. 0: zero start; 1: Non-zero start. The startup mode is displayed when starting up, and the default is zero start.
P7	限速设定 (屏蔽)。 Speed limit setting (shielding).
P8	设置休眠时间: 0, 不休眠; 其他数字为休眠时间, 范围: 1-60; 单位分钟, 默认 5 分钟。 Set sleep time: 0, do not sleep; Other numbers are sleep time, range: 1-60; Unit minute, default 5 minutes.
P9	设置背光灯亮度调节: 1 级最暗, 3 级最亮, 默认 3 (根据实际设置等级)。 Set backlight brightness adjustment: level 1 is the darkest, Level 3 is the brightest, and the default is 3 (according to the actual setting level).
PA	设置启动力度: 1-5, 1 最小, 5 最大, 默认 3。 Set the Starting Strength: 1-5,1 minimum, 5 maximum, default 3.
PB	设置刹车力度: 1-5, 1—20%, 2—35%, 3—50%, 4—70%, 5—100%, 默认 3。 Set braking force: 1-5,1-20%,2-35%,3-50%,4-70%,5-100%, default 3.
PC	ODO 清零设置 (0 为不清零, 1 为清零, 调为 1 后自动退出清零, 然后 PC 再次自动恢复为 0)。 恢复出厂设置 ODO reset settings (0 is not cleared, 1 is cleared, after being adjusted to 1, it will automatically exit cleared, and then PC will automatically return to 0 again). Restore factory settings

三、技术参数 Technical parameters

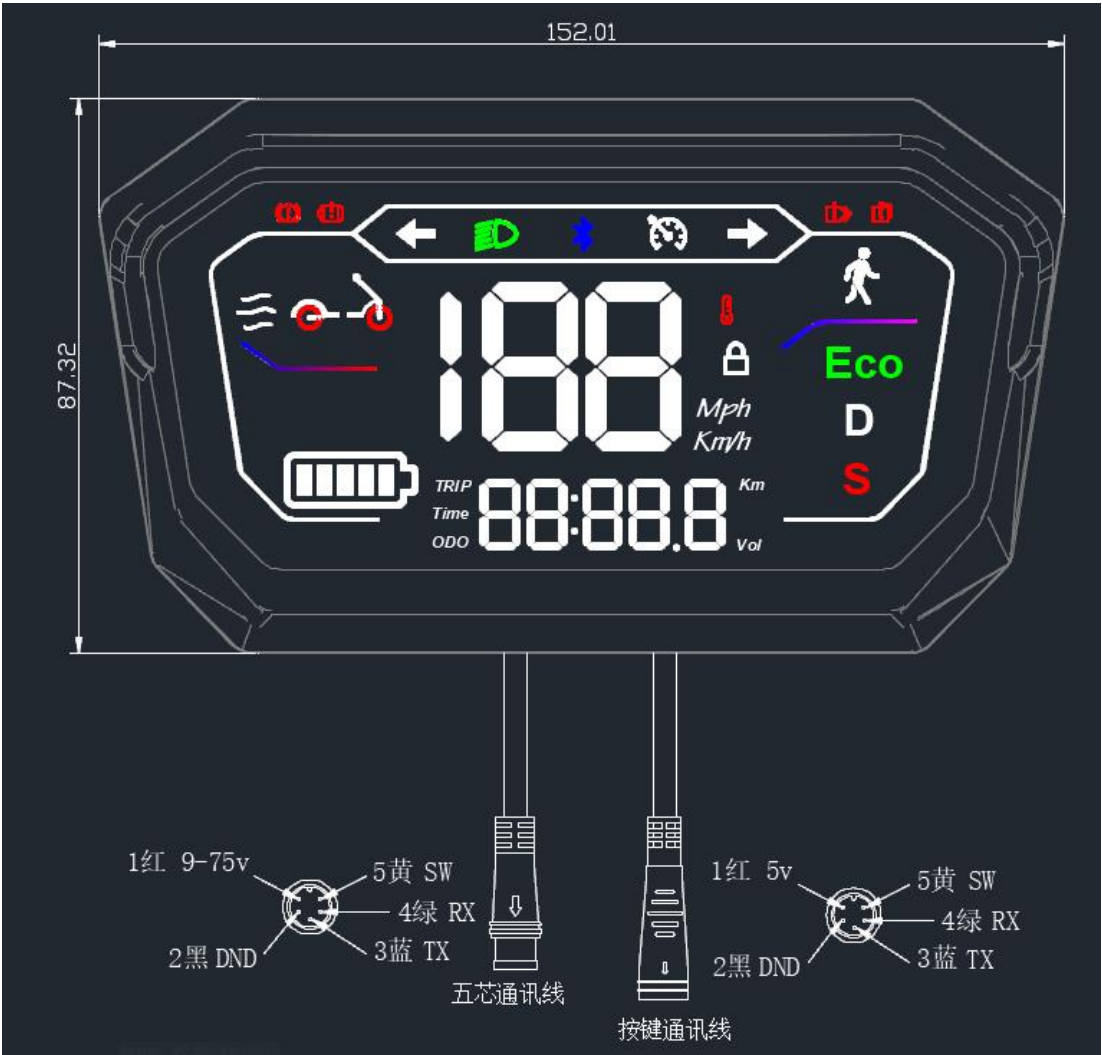
序号	项 目 Project	技术参数 Technical parameters
1	输入电压 Input voltage	9~75V

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2	蓝牙供电 Bluetooth power supply	3.3V
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四、尺寸标示图

Dimensional drawing



五、各端口定义

Definition of each port

序号	名称 Name	功能说明 Function Description	定义说明 Definition Description
1	通讯线（五芯航空头公端） Communication line(five-core aviation head male end)	仪表控制器通讯 Instrument Controller Communication	黄 POWER_KEY，红 9-75V，黑 GND，蓝 TX,绿 RX Yellow POWER_KEY, Red 9-75V, black GND, Blue TX, Green RX

2	按键通讯线（五芯航空头母端） Key communication line (female end of five-core aviation head)	仪表按键模块通讯 Instrument key Module communication	黄 POWER_KEY, 红 5V, 黑 GND, 蓝 TX, 绿 RX Yellow POWER_KEY, Red 5V, black GND, Blue TX, Green RX
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六、报错代码 Error code

E0	前驱电机 2 霍尔错误 Front Drive Motor 2 Hall Error
E1	后驱电机 1 霍尔错误 Rear Drive Motor 1 Hall error
E2	油门错误 Throttle error
E3	控制器 1 硬件错误 Controller 1 Hardware Error
E4	刹车错误 Brake error
E5	电池过压错误 Battery overvoltage error
E6	通讯故障 Communication failure
E7	后驱电机 1 缺相（无效） Rear Drive Motor 1 phase loss (invalid)
E8	控制器 1 过温警告 Controller 1 over-temperature warning
E9	后驱电机 1 过温 Rear Drive Motor 1 overtemperature
E10	电池低压错误（无效） Low battery voltage error (invalid)
E15	控制器 2 过温警告（无效） Controller 2 over-temperature warning (invalid)
E16	控制器 2 硬件错误（无效） Controller 2 Hardware Error (Invalid)
E17	前驱电机 2 缺相（无效） Phase loss of front-drive motor 2 (invalid)
E19	前驱电机 2 过温（无效） Front drive motor 2 overtemperature (invalid)
E20	电机 1 电机 2 堵转警告（无效） Motor 1 Motor 2 Stall Warning (Invalid)