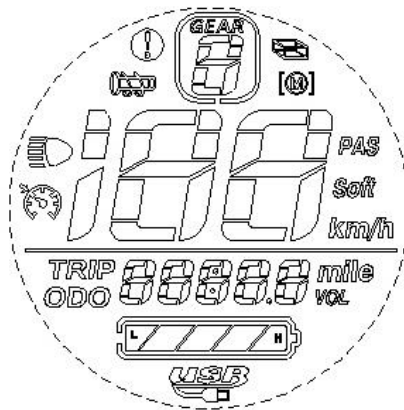


Panda V2 instrument operating manual for electric scooter



1. The instrument display



2. The instrument display functions

3. The operational parameters:

- (1) The working voltage of the instrument display: DC 24V / 36V / 48V / 52V / 60V compatible. Adjust the setting parameters P01 - adaptive battery power display. See P01 in instrument display settings table below.
- (2) The acceleration Hall signal (app or accessory) accepts a direct connection to the controller, which is very sensitive and accurate.
- (3) The communication adopts a Uart (app or accessory) two-way communication port, which can adjust some functions of the controller, and also receive speed information or other status information.
- (4) The instrument display will automatically shut off in 3 minutes when idle.
- (5) The instrument display connection line adopts a 6-core wire set. See wire sequence table below.



Ordinary SM-6Y Plug



Waterproof Plug

Wire Sequence Table

Wire No.	Description	Wire Color	Function
1	P+	Red	Positive
2	DMS	Orange (SM-6Y Plug) / White (Waterproof Plug)	Electric Lock
3	GND	Brown	Negative
4	SP	Green	Speed Control
5	TX	Blue	Send
6	RX	Yellow	Receive

4. Display Functions:

- (1) Speed display: 0~199 km/h or 0~199 mph
- (2) Electronic gear display: Adjustable power levels, from 1 (low power) ~ 3 (high power)
- (3) Information display: operating times displayed in 3 forms, single mileage (TRIP), total mileage (ODO), and battery voltage (VOL)
- (4) Fault icon display
- (5) Battery capacity display
- (6) Function parameters adjustment menu

5. Key type description

Instrument button type:



: Power button (P button)




: Mode button (M button)

6. Operating instructions:

Power on/off: Long press the (P button) (in normal instrument display)

Electronic gears: In the speed display state, short press the (M button) to switch between power levels 1~3

Switch Display Information: In the speed display state, short press the (P button) to choose between TIME, TRIP, ODO, & VOL

Headlight switch: (requires controller support) long press the (M button) for about 3 seconds, if the icon  is displayed, the headlight is set to on, otherwise it is off.

Enter or exit the settings menu: Press and hold the (P&M buttons) simultaneously for about 3 seconds.

Switch between the currently set parameters: Short press the (P button) for next or the (M button) for previous.

Enter the current parameter settings: Long press the (P or M button) for about 3 seconds to enter the settings for the current parameter, the content will flash.

Adjust the current parameter value: Short press the (P button) to decrease or the (M button) to increase the value.

7. Description of the parameter settings menu.

Features	Defaults	Description of functions	Remarks
P00	10.0	Tire size in inches	
P01	41.5	Low voltage protection value (accuracy 0.5V)	
P02	15	Number of motor magnets divided by 2	
P03	1	0 = outside ---- 1 = inside	Unchangeable
P04	0	0 = km/h ---- 1 = mph (speed unit selection)	
P05	0	0 = standstill start ---- 1 = forward motion start	
P06	0	0 = cruise control off ---- 1 = cruise control on	
P07	0	0 = soft start ---- 1 = hard start	
P08	100	Percentage of speed limit (5 min. – 100 max.)	
P09	2	0 = close ---- 1 = weak ---- 2 = strong E-ABS	Electronic Brake

8. Description of failure icons



: Braking icon, this icon will be displayed when there is a braking fault.



: Controller icon, this icon will flash when the instrument or controller communication fails, and it will be displayed continuously when the controller is abnormal.



: Motor icon, this icon will be displayed when the motor is faulty.



: Handlebar icon, this icon will be displayed when the handlebar has some fault.