

USB Safety Detector Instructions

—Product functions

Thank you for choosing our USB Safety Detector, this is electronic equipment with compact size, exquisite appearance and highly accuracy. This product is not only possess detection display function of USB which is including current and voltage, capacity, electricity, temperature and charging timing, but also have functions of whistle alarm and automatically cut out line output when appear high voltage, low voltage, over-current and leakage of electricity. Support to quick charge by QC2.0 and collect a data of capacity and power of discharge or charge from portable power bank, charger and USB.

—Technical parameter

category	minimum	maximum	accuracy
Input voltage	3.00V	30.0V	0.01
Input current	0.00A	5.0A	0.01
Cumulative capacity range	00000mAh	99999mAh	----
Cumulative electricity range	000.000Wh	999.999Wh	----
Cumulative timing range	000:00:00	999:59:59	----
Cumulative temperature range	0	84	----
Timing	01:00	24:00	----
Power	000.000W	999.999W	----
Electric resistance	000.00	999.99	----

≡ The background calibration and setting function

Press and hold the button to enter the setting mode before powering up, short press will check circularly like current calibration, voltage calibration, high voltage protection threshold and capacity compensation coefficient. Long press will resume factory settings and then go to the main surface.

Category	The factory default	Remarks
Electric Current calibration	0.00A	The factory default is 1.00A load current, has been calibrated
Voltage calibration	5.00V	The factory default is 5.00V standard current, has been calibrated
High voltage protection threshold setting	> 20.0V	Please follow the instructions below if these four users want to adjust according to their needs
Low voltage protection threshold setting	< 4.00V	
over current protection threshold setting	> 3.00A	
Capacity compensation factor setting	X1.00	

Electric Current calibration: double-click the screen flicker and load the standard 1.00 load (the ideal is to set 1.00 constant current load meter). Afterwards double-click again, it will display 1.00A on the screen and come out a "beep" sound from the speaker, and then the screen will stop flashing and the system will confirm and store the new accuracy. Thus, the system will use the calibrated parameters to run for the next time. (click the button to enter the next step)

Voltage calibration: the number will adjust to the standard power supply of 5.00V, the monitor indicates the current voltage value of accuracy. Double-click the screen flicker, it will be automatically adjusted to 5.00V when double-click in the second time. After calibration, the speaker will "beep" and confirm automatically which means calibration is completed. (click the button to enter the next step)

High voltage protection threshold setting: the system default is more than "20.0V" protection. Double-click the screen flicker to enter the mode of adjustment. A, decrease setting: one click is decrease by 0.1V or press "click" then long press can continue to decrease B, increase setting: double click is increase by 0.1V or press "double click" then long press can continue to decrease. After adjustment, flashing will be stopped and the setting will be signed out which means setting is completed. (click the button to enter the next step)

Low voltage protection threshold setting: the system default is less than "4.0V" protection. Double-click the screen flicker to enter the mode of adjustment. A, decrease setting: one click is decrease by 0.1V

or press "click" then long press can continue to decrease B, increase setting: double click is increase by 0.1V or press "double click" then long press can continue to decrease. After adjustment, flashing will be stopped and the setting will be signed out which means setting is completed. (click the button to enter the next step)

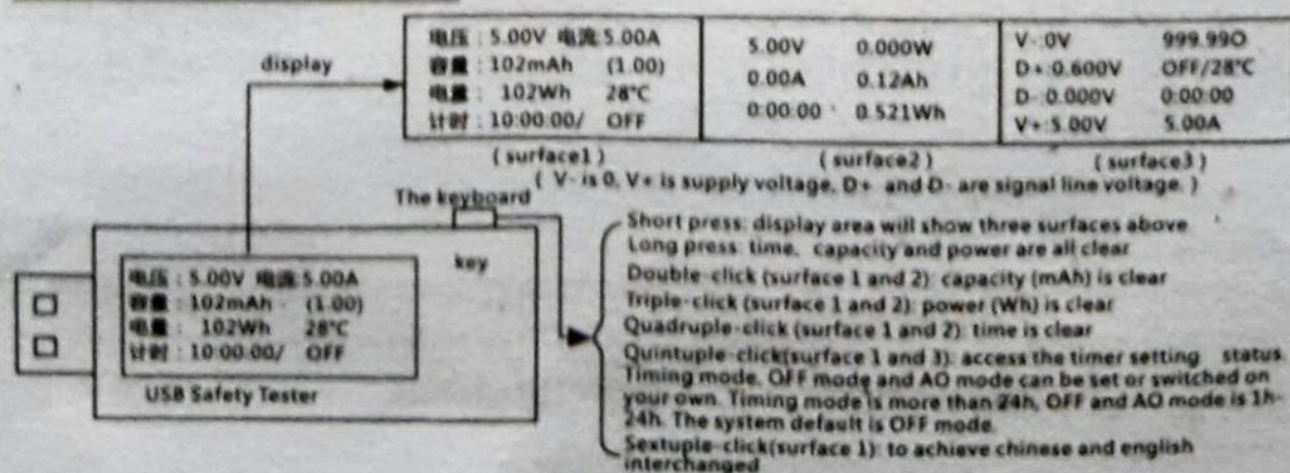
Over current protection threshold setting: the system default is more than "3.00A". Double-click the screen flicker to enter the mode of adjustment. A, decrease setting: one click is decrease by 0.1V or press "click" then long press can continue to decrease B, increase setting: double click is increase by 0.1V or press "double click" then long press can continue to decrease. After adjustment, flashing will be stopped and the setting will be signed out which means setting is completed. (click the button to enter the next step)

Capacity compensation factor setting: The system default is "1.00". Double-click the screen flicker to enter the mode of adjustment. One click will decrease, double click will increase. After adjustment, flashing will be stopped and the setting will be signed out which means setting is completed

Attention: after completing the setting, wait 5 seconds without any operation which means save automatically and exit correction setting, finally enter into the main surface.

After setting up the mode in the background, make sure that wait until automatically sign out of the background mode to save the data, otherwise, the value of the setting can't be saved.

四 Structural presentation



五 The work mode

1) **OFF mode:** in this mode, connect to the cell phone that begin to charge, do not charge when disconnect the cell phone.

2) **AO mode:** is called intelligent charging mode which is automatically power off after full charging in order to protect the cell phone. To clear the value of timer, power and capacity before long pressing the button to charge.

For example, in this mode, the detector will automatically cut off the voltage when the cell phone is charging by 100% and continuing to charge by one hour. At the same time, the buzzer will ring and the screen will show "OFF" which means the cell phone is powering off. The user can check the time of charging, power and capacity value until short press the button and back to normal.

3) **Setting mode:** in this mode, charging time is set by user. the detector will cut off the voltage to the charging cell phone when the timing time is decrease to 0 by countdown. At the same time, the buzzer will ring and the screen will show "OFF" which means the cell phone is powering off. The user can check the time of charging, power and capacity value until short press the button and back to normal. For example, if the user knows the cell phone is going to charge for 4 hours, set "Setting mode" for 4 hours and connect the cell phone. The detector will cut off the voltage to the charging cell phone when the timing time is decrease from 4 hours to 0 (1 minute is decrease each time). At the same time, the buzzer will ring and the screen will show "OFF" which means the cell phone is powering off. The user can check the time of charging, power and capacity value until short press the button and back to normal.