

DT20 Wi-Fi series product manual

Important statement:

This Meter does not immediately display the capacity of the connected battery when it is powered on, but rather after receiving the goods. It is necessary to strictly follow the instructions to fully charge the battery first, then connect it to this meter and press and hold the plus or minus buttons at the same time. After clearing the capacity of this meter to zero, the accumulated measured capacity is discharged through this meter until the battery runs out of charge. Quantity is the storage capacity of the tested battery !!! If you are a novice user, please refer to the user manual for detailed instructions or contact Seeking help and explanation from the manufacturer's technical personnel for learning!

Voltage measurement range: 0~420V

□ 30A □ 100A □ 200A □ 300A □ 400A □ 500A □ 600A

!!!Device Need DC 5V Power supply)!!!→



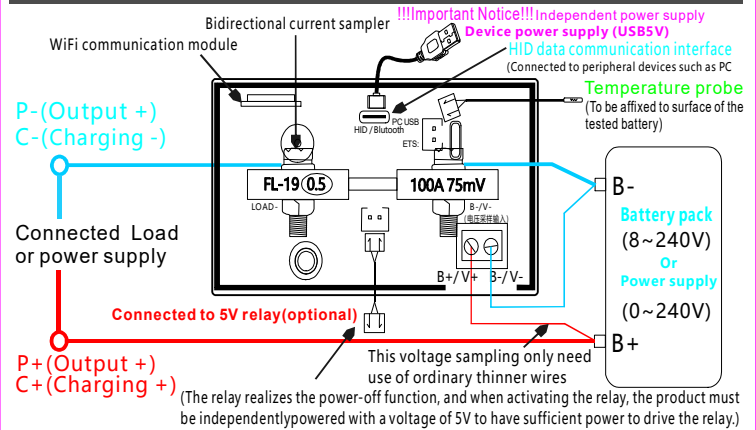
This device is used to measure and display the voltage, current, power, simulated load resistance value, discharge capacity, electricity level, battery temperature, over-voltage prompt, low-voltage prompt, over-voltage prompt, as well as the percentage of electricity level corresponding to the battery voltage ratio of the battery pack/power supply

Application

*This Device is suitable for measuring and displaying parameters such as voltage, current, power, and electrical capacity of DC power sources, batteries, or battery packs.

*Suitable for all types of lithium batteries, lithium iron phosphate, lead-acid, nickel hydrogen, and DC power supplies with working voltages ranging from 0 to 420V

True four wire wiring instructions (0~420V) (HID independent power supply/Type-C 5V power supply)



Attention:
 Please strictly follow the wiring diagram. The sampler must be connected in series to the negative circuit of the battery, and it is strictly prohibited to connect to the positive circuit!

1. The sampler used in this meter must be connected in series to the negative electrode circuit of the battery pack. The sampler should be connected to the negative electrode B - of the battery, and the P-end should be connected to the negative electrode P- / C - for charging and discharging.
2. Take one red and one black wire to connect the positive and negative terminals of the battery to the voltage sampling input interface shown in the diagram, for voltage sampling.
3. Connect the randomly delivered Type-C data cable to a 5V USB power supply to power the product and it will display normally.
4. Wiring principle: Ensure that all current flowing through the battery passes through the bidirectional current sampler shown in the diagram!

Warning:

The current line passing through the load should be as thick as possible and meet the required carrying current of the load! The thicker the wire diameter, the better!

Main interface and button operation methods

Button - Switch pages/adjust values
 Long press the + and - keys to reset the capacity to zero

Power indicator light

Settings/Menu Button Short press to set value/
 Long press to enter background/
 Confirm key

Data communication light

Button + Switch pages/adjust values

Battery temperature (External temperature probe needs to be attached to the tested battery)

Internal resistance of battery (The battery's no-load voltage minus the load voltage divided by the current current, only displayed when there is a current.)

English display interface

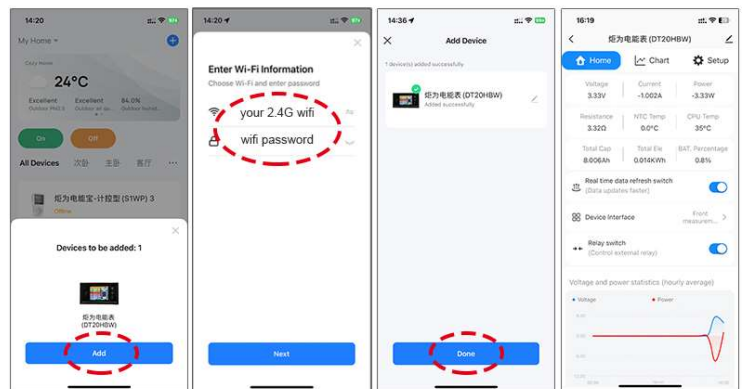
Main interface Battery capacity/DC power detector Vol: 0030.08V Cur: 0005.06A Pwr: 0150.20W Res: 0005.82Ω Cap: 0069.39Ah Time: 0000:59:23	Alarm interface DC power detector OTV 120.00V LVT 003.00V OPT 01000W Time: 0000:59:23	Percentage interface Battery capacity/DC power detector Vol: 0030.08V Cur: 0005.06A Pwr: 0150.20W Res: 0005.82Ω Cap: 0069.39Ah Time: 0000:59:23	Curve interface 30.00V 000.76V 000.32A 000.94A 000.00V 000.12V 000.00A 000.00W
Large font display interface 15.29 V 2.09 A 31.9 W 0.0289 Ah	HID online interface HID/WiFi/Bluetooth BLE WiFi Dev_Addr: 001 (Connect the device to the computer)	Bluetooth online interface HID/WiFi/Bluetooth HID WiFi Dev_Connected!	WiFi online interface HID/WiFi/Bluetooth HID BLE WiFi connection success and Wi-Fi module (Longpress "+" to re-set WiFi)
Language selection interface Language selection 语言选择 09 English 中文 Not longer Remind! (不再提醒)	Overvoltage alarm interface 0120.00V 0120.05V (If you need to change the setting, long press M to go to the background interface to change the settings.)	Lowvoltage alarm interface 0003.00V 0002.50V (If you need to change the setting, long press M to go to the background interface to change the settings.)	Overpower alarm interface 1000.00W 1000.50W (If you need to change the setting, long press M to go to the background interface to change the settings.)
Scan code to view manual (扫码查看使用说明书及软件)	System Settings 1 System Settings 01. Language Style 02. Display Brightness 03. Standby Brightness 04. Enter Standby Time 05. Diver size 06. Ext. temp Calibration	System Settings 2 System Settings 07. Voltage Calibrate Ref 08. Current Calibrate Ref 09. Overvoltage Prompt 10. Lowvoltage Prompt 11. Overpower Prompt 12. Over_Temp Ext.T	System Settings 3 System Settings 13. Zero No-Load Current 14. HID/WiFi/Bluetooth 15. Zero All Data 16. Default Setting 17. Mini Measure Amp 18. Exit

Note: There have been some changes on this page. Please refer to the actual product upon receipt. Thank you

How to add device in APP (tuya or smart life app)



1. Download and install APP on mobile, and register with your phone number
2. Powered by a DC USB 5V power supply, the product's connection light flashes and enters pairing mode.
3. Start Tuya Smart app on mobile, goes as following step by step;



- Home** Overview of Main Interface Data
- Chart** View voltage/power/energy/CPU temperature curve
- Setup** Adjust protection parameters

Product parameters

1. Voltage range: DC 0-420V (DC5V independent power supply)
 Capacity range: 0-99999AH
 Current range: 0~30A/0.1~100A/0.2~200A/0.3~300A/0.4~400A/0.5~500A/0.6~600A (optional)
2. Support the modification of circuits that require additional relays to be fully charged and fully discharged, which can protect the battery;
3. Support low-voltage, over-voltage, over-Power prompt or power outage (when adding 5V relay circuit); Support bidirectional current testing access, After the line, there is no distinction between the direction of current!
4. Support shunt selection: 100A/200A/300A/400A/500A/600A