**Battery Capacity Meter DC 7-100V Blue LED Digital Voltmeter Mini Voltage Panel Meter Volt Tester Dual Display For DC 12V Vehicle**

**Operation instructions**

**Product characteristics:**

1、This meter can set battery types by keys: lead-acid batteries, lithium batteries, nickel-hydrogen batteries, can also set the number of batteries in series by keys (the number of batteries in series)

2、This meter is suitable for: 12V, 24V, 36V, 48V, 60V, 72V, 84V battery car, electric vehicle, battery pack, balance car, inverter, electric forklift, sightseeing car, electric vehicle, automobile battery, battery power mobile device, etc. It can also be used for other voltage and power measurement purposes.

3、This meter can test and display real-time voltage, electricity and percentage electricity.

4、Optional display mode: single display voltage; single display percentage power; voltage, percentage power cycle display (default)

5、Two-wire system, wide supply voltage, wide test voltage: DC7-100V, simple and convenient wiring

6、With reverse connection protection function, reverse connection will not burn

7、Low Volume Flash Alarm and Reminder Function

8、LED Color Screen Display, High-grade Atmosphere

**Technical parameters:**

Power supply voltage: DC7-100V (wide range). Note that the maximum input voltage should not exceed 100V, otherwise there is a risk of burnout.

Test voltage: DC7-100V

Electricity Resolution: 1%

Working Current: <20mA

Display mode: LED color screen

Size: 48 x 29 x 21 mm

Installation openings: 45.5 x 26.5 mm

Measurement rate: > 500 mS/time

Voltage measurement accuracy: 1%(+2 words)

Lead length: > 150 mm

**Limit working conditions：**

Minimum supply voltage: +7

Maximum supply voltage: +100V

Working temperature: - 10℃ ~+65℃

Working humidity: 10-80% (no condensation)

Working Pressure: 80-106 kPa

Sunshine exposure: no direct exposure

**Operational instructions：**

The internal parameters of the meter are set to 48V lead-acid batteries (4 sections 12V batteries in series) by default. If you need to change, please refer to the following method:

1. There is a red button on the back of the module. Press the button for 3 seconds to display 1-U, release the button, press 1 second to display 2-b, release the button, and press 1 second to display 3-C again.

2. Pressing the button for 3 seconds when displaying 1-U will show the value of fine-tuning voltage. At this time, release the button and press it for a longer time, and then adjust the voltage upward, stop and press it for a longer time, then adjust it downwards, and save it automatically after digital flicker.

3. When displaying 2-B, Long press button enter to battery types selection mode :

12.0 represents 12 V lead-acid batteries,

3.7 represents 3.7 V lithium batteries,

3.2 represents 3.2 V lithium batteries

1.2 represents 1.2 V nickel-hydrogen batteries.

1. When displaying 3-C, the number of cells can be adjusted, long press the button enter to the battery number setting mode, the adjustable number of different types of batteries is as follows: 12V lead-acid batteries 1-7,

3.7V lithium batteries 4-23,

3.2V lithium-ion batteries 4-26 and

1.2V nickel-hydrogen batteries 10-66.

1. When displaying 4-P, long press the key enter to the default parameter selection for recovery:

 NO：represents not restoring default parameters

        YES：represents restoring default parameters

5. After setting each adjustment value, the next operation will be performed after the digital flicker automatically saves and exits, otherwise the new adjustment value will not be saved!

1. After parameter setting is completed, staying for 5 seconds without any operation will automatically save (with flicker indication) parameters and return to the corresponding menu options of the previous level. If only to view data, there will be no operation and the corresponding menu options of the previous level will be automatically returned after staying for 5 seconds (without flicker indication).

**Examples of settings:**

12V lead-acid battery (1 section 12V in series) is set as follows: 12.0 in P-1 and 1 in P-2;

24V lead-acid battery (2 sections 12V in series) is set as follows: Select 12.0 in P-1 and 2 in P-2；

36V lead-acid batteries (3 sections 12V in series) are set as follows: Select 12.0 in P-1 and 3 in P-2；

48V lead-acid batteries (4 sections 12V in series) are set as follows: Select 12.0 in P-1 and 4 in P-2；

60V lead-acid battery (5 sections 12V in series) is set as follows: Select 12.0 in P-1 and 5 in P-2；

72V lead-acid batteries (6 sections 12V in series) are set as follows: Select 12.0 in P-1 and 6 in P-2；

12V lithium battery (3.7V Series in 3 sections) is set as follows: Select 3.7 in P-1 and 3 in P-2；

18V lithium battery (5 sections 3.7V in series) is set as follows: Select 3.7 in P-1 and 5 in P-2；

24V lithium battery (7 sections 3.7V series) is set as follows: Select 3.7 in P-1 and 7 in P-2；

36V lithium battery (10 sections 3.7V series) is set as follows: Select 3.7 in P-1 and 10 in P-2；

48V lithium battery (12 sections 3.7V series) is set as follows: Select 3.7 in P-1 and 12 in P-2；

60V lithium battery (16 sections 3.7V in series) is set as follows: Select 3.7 in P-1 and 16 in P-2；

Menu operation instructions

|  |  |  |  |
| --- | --- | --- | --- |
| Main menu | Level 1 menu | Default values | Notes |
| **1-U**（Voltage fine-tuning calibration） | Voltage value fine-tuning calibration |  | When the display voltage is deviated, it can be adjusted in a certain range |
| **2-b**（Setting Battery Type） | **12.0**（Represents a single 12V lead-acid battery） | 12.0 | Short press button can switch battery type |
| **3.7**（Represents a single 3.7V polymer lithium battery） | 　 |
| **3.2**（Represents a single 3.2V lithium iron phosphate battery） | 　 |
| **1.2**（Represents a single 1.2V nickel-hydrogen battery） | 　 |
| **3-C**（Setting the number of batteries） | （Setting the number of batteries） | 　 | (P-1)\*(P-2)≦100 |
| **4-P**（Restore factory settings ） | **NO**(Not recovery factory parameters） | NO | Select YES to restore all current parameters to factory settings |
| **YES**(Recovery of factory parameters） |  |