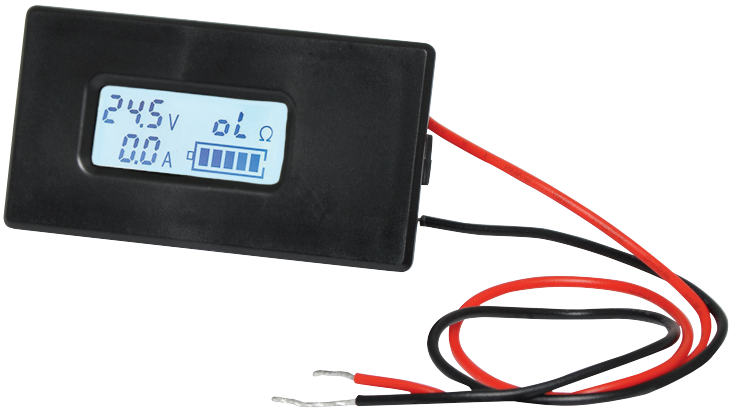
Powerhouse

Q 0586

Mini Flush Mount Power Monitor Panel

OPERATING INSTRUCTIONS



OVERVIEW

This compact flush mount panel display provides an easy way to monitor battery voltage, approximate level, load current and resistance. Measures 2.8-30V. 0.1V resolution with 2% accuracy. 10A max. Cut out dimensions: 22.5 x 43mm. Overall dimensions: 27 x 51 x 16.5mm.

FEATURES

- Electrical parameter measurement (voltage, current, load resistance, dump energy (symbol display))
- Backlight (you can control the backlight on/off through the button)
- LCD display (display voltage, current, resistance, energy at the same time)

Appearance and Key Functions

1. Display Interface: LCD display voltage, current, resistance, energy at the same time

2. Display format:

2.1 Voltage: displays input voltage 2.8~30.0V
2.2 Current: displays the load current 0.0~10.0A
2.3 Resistance: displays the load resistance
- Indication range: 0~999Ω
- R<10Ω display 0.01~9.99Ω
- 10Ω≤R<100Ω display 10.0~99.9Ω
- 100Ω≤R<1000Ω display 100Ω≤R<1000Ω
- 1000Ω≤R display "oL"Ω

2.4 Energy: display the current battery dump energy.
- Battery level is shown through the five battery level grids on the LCD screen, is distinguished by the current voltage and cut-off voltage and full-scale voltage. So before test, you should set the cut-off and full-scale voltage.
- Every grid stand for 20% energy, At full-scale voltage, it displays 5 grids, when comes the battery cut-off voltage it will display format 0 and so on.

3. Key

3.1. Backlight control: The backlight turn off when power is on, you can turn it on or off by short press the "set" button.
3.2 Cut-off voltage of the battery and full-scale voltage settings
- Step 1: Long Press the "SET" button for 3 seconds to enter the battery cut-off voltage and full scale voltage setting state, then release the button;
- Step 2: After entering the state, voltage area flash to display the current battery cut-off voltage, and use the zero battery level symbol to indicate it is the cut-off voltage setting state; then you can shot press the button to add one, long press the button can add one quickly; the range of cut-off voltage setting is 2.8 ~ 29.9V, but not more than the full-scale voltage.
- Step 3: When there is no key operation more than 3 seconds, it automatically enter into the full-scale voltage setting state.
- Step 4: After entering this state, voltage area flash to display the current full battery level voltage, and use the full battery level symbol to indicate it is the full-scale voltage settings state; setting method is as same as the cut-off voltage; the range is 2.8V ~ 29.9V, but not less than the cut-off voltage.
- Step 5: When there is no key operation more than 3 seconds, it will automatically save, if there is no error after saving it will quit automatically, if the value is incorrect or save incorrectly, it will display "Err SAu" for 1 second, and exit.

Discharge Resistance

Many users like to use resistance as a load to do the battery discharge test, there is no stipulation of the resistance value and power, you can calculate through the formula:

The value of discharge resistance=Voltage/current
The power of discharge resistance=Voltage* current

Calibration

If the product has incorrect measurement data, facing problems due to interference, faulty operation or wrong wiring, then we recommend you recalibrate it. To do this please follow the steps below, if you feel you cannot recalibrate it yourself please contact your supplier.
- Step 1: Cut off the power, open the back cover, short circuit the calibration point (there are two holes marked "W" on the margin of the circuit board)
- Step 2: Then give it the standard voltage and current for 10v/1A(for example: use the DC electrical source to output 10V voltage to the product, and the load wire a standard resistor of 10Ω/10W, then you can get the calibration condition.)
- Step 3: Then the screen will display "10V,1A" flashing, which indicate it is the calibration state and the calibration condition is "10V,1A"
- Step 4: If the calibration is successful, the screen will display "PASS" for 1 second, then exit the calibration state and return to normal, if display other information, it means the calibration has failed.
- Step 5: After calibration, cut off the power and calibration point, then you can use it normally.

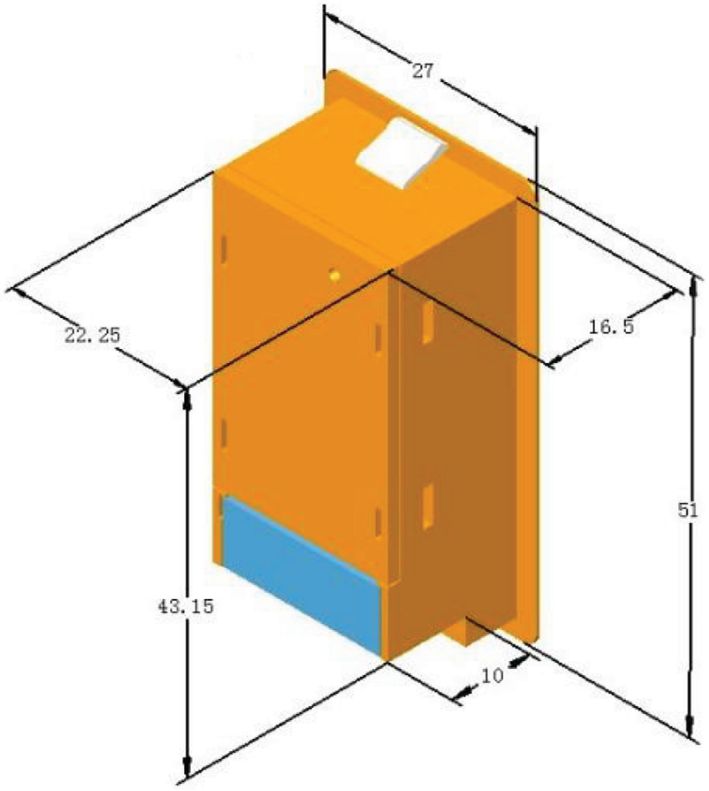
Precautions

1. This module is suitable for indoor, please do not use outdoor.
2. Applied load should not exceed the rated voltage, current.
3. Ensure the wiring order is correct.

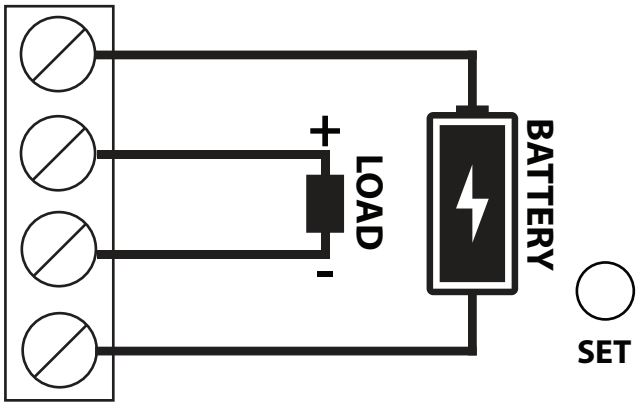
Specifications

- Working Voltage: 2.8V~100V DC
- Test Voltage: 2.8V~100V DC
- Rated Power: 10A
- Measurement accuracy: 2%

Product Dimensions (mm)



Wiring Diagram



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