

POWERTECH

QP2330

Battery Monitor

8V - 80V 500A

for Lithium Lithium Iron Phosphate, Lead Acid, AGM, Gel Cell and Nickel Metal Hydride



Instruction Manual

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WARNINGS & SAFETY INFORMATION

WARNING: The manufacturer is not responsible for any potential injury from misuse

The tester cannot be exposed in the sun for a long time or in the environment with large amounts of ultraviolet radiation when using or storing, particular in winter (< -20°C) and summer (>60°C), otherwise it will shorten the life of LCD.

BEFORE FIRST USE

Prior to using your product, please read all the safety and operating instructions thoroughly. Please ensure you follow the steps below before using the product. We recommend you keep the original packaging for storing the product when not in use.

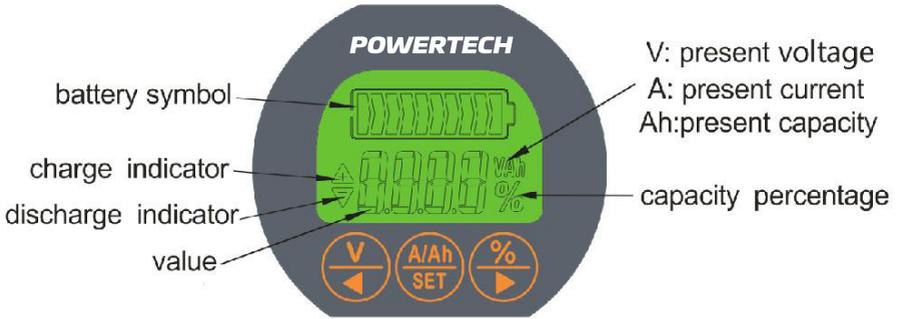
Please pay close attention to the section entitled Warnings & Safety Information. Find a safe and convenient place to keep this instruction manual for future reference.

Unpack the product but keep all packaging materials until you have made sure your new product is undamaged and in good working order. Ensure you have all accessories listed in this manual.

BOX CONTENTS

1 x Battery Monitor

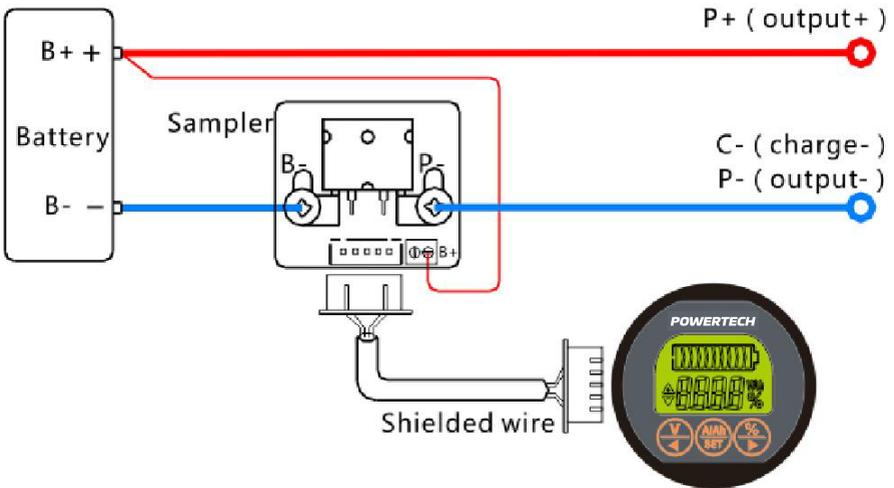
PRODUCT DIAGRAM



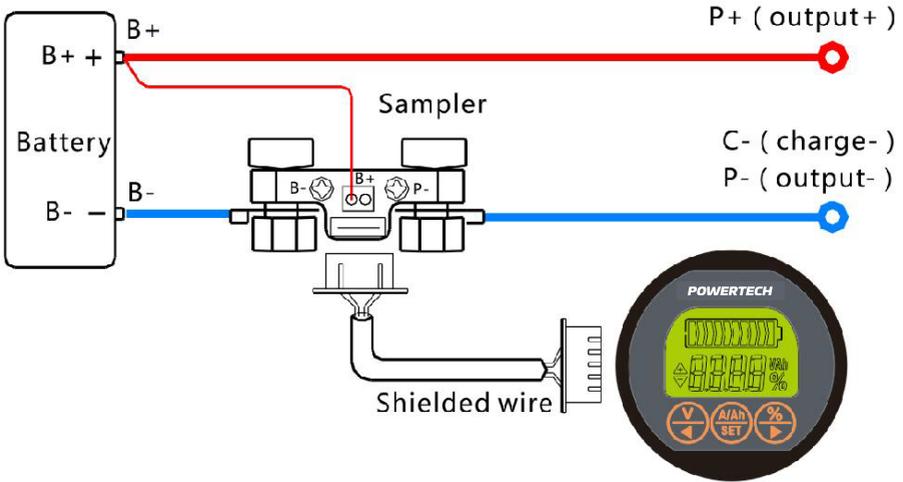
CONNECTION

We need a shielded wire and an ordinary wire (0.3-0.75 mm²). One end of the ordinary wire connects to the positive of the battery, and the other end connects to B+ of the sampler (any one is OK). The B- of the sampler connects to B- of the battery. The P- of the sampler connects to P- of the output. Finally, connect the sampler to the coulometer by the shielded wire. (Notice: The diagram is not to scale.)

Connection diagram of 50A sampler



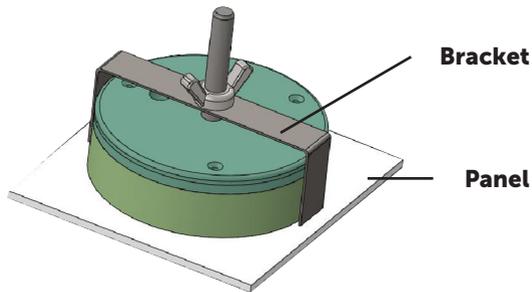
Connection diagram of 100A/350A sampler



Attention: Please connect as shown strictly. The sampler must be connected to the negative circuit, it is forbidden to connect to the positive circuit. If you want to extend the shielded wire, you must use 4 lines of same specification.

INSTALLATION

First, open a round holes of 54.5mm on the panel of the equipment. Then install the coulometer from the front of the panel. Finally, tighten the bracket on the back. As shown below:

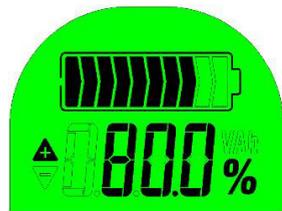
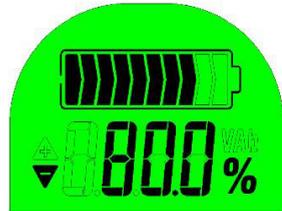


USAGE INSTRUCTIONS

- 1. Connect and check the current:** Power on after complete the connection as shown, the screen should display capacity percentage. If the screen has no response, please check the connection. Then charge or discharge the battery, and check whether the display current is equal to the actual current. If the deviation is large please check the connection.
- 2. Capacity reset:** On first use, the percentage and capacity are not the actual value you should reset the capacity :discharge the battery totally and hold the "⊕" key for 3 seconds to set the capacity zero or charge the battery fully and hold the "⊖" key for 3 seconds to set the capacity full. And it doesn't need to do this again later, except replace the battery.
- 3. Check and reset the actual capacity:** If you find the display capacity don't match the actual capacity, please check and reset the actual capacity: discharge the battery totally and hold the "⊕" key for 3s to set the capacity zero, then set the capacity value as large as possible. Then charge the battery fully, and the display capacity is the actual capacity. Finally set the display capacity as preset capacity (Please refer to use and setting).

OTHER DESCRIPTIONS

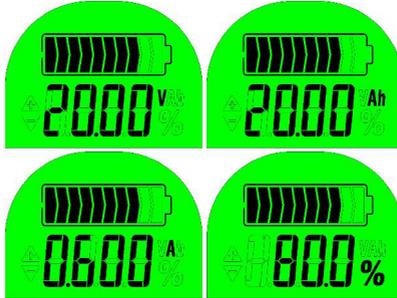
1. When charging or discharging, the coulometer must be at work. Otherwise the capacity will not be accurate.
2. Connect the load, when the discharge current is higher than backlight on current, the backlight on (if backlight blinking , the RS+ and RS- are inversely), and display discharge indicator, indicate battery is discharging.
3. Break the load, and connect the charger. When the charge current is higher than backlight on current, backlight blinking (if backlight on, the RS+ and RS- are inversely), and display charge indicator, indicate battery is charging.
4. When the charge or discharge current is less than backlight off current, coulometer enter a low power state and backlight off. And TR16 can memory the capacity.
5. Because of high sensitivity, when the coulometer is in standby mode (battery has no input or output current), if it is interfered by electromagnetic radiation (open or close inductive loads, such as the motor) nearby, the backlight will shortly open.
6. When the current changes frequently the date acquisition may produce error, and it will affect the accuracy.



USE AND SETTING

Change display interface

After power on, display capacity percentage. Click “” key display voltage; click “” key, display capacity, click “” again, display current; click “” key, display percentage.



Preset capacity and voltage setting

1. Under voltage display, press the “” key for 3s to enter zero capacity voltage setting. The set bit flicker, click the “” or “” key to plus and minus the value, then press the “” key to complete setting. When the voltage is lower than the value the percentage will be 0%, and backlight off.
2. Under capacity display, press the “” key for 3s to enter capacity setting. The set bit flicker, click the “” or “” key to plus and minus the value, then press the “” key to complete setting.

NOTE: Generally the zero capacity voltage do not need to set. The default is OV, mean invalid. If you want set , please understand the actual charge and discharge voltage of battery firstly.

Set capacity zero or full

When on first use or change the battery, the memory capacity should be set zero or full: In the main interface hold the

“” key for 3 seconds to set the capacity zero, the percentage is 0; hold the “” key for 3 seconds to set the capacity full, the percentage is 100. Attention that the operations can not be restored.

WARRANTY INFORMATION

Our product is guaranteed to be free from manufacturing defects for a period of 12 Months.

If your product becomes defective during this period, Electus Distribution will repair, replace, or refund where a product is faulty; or not fit for intended purpose.

This warranty will not cover modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

To claim warranty, please contact the place of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim.

Any expenses relating to the return of your product to the store will normally have to be paid by you.

The benefits to the customer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods or services to which this warranty relates.

This warranty is provided by:

Electus Distribution

Address 46 Eastern Creek Drive, Eastern Creek NSW 2766

Ph. 1300 738 555