

USER MANUAL FOR FEIGAO POWER ANALYZER

- BASIC CHARACTERISTIC
- HARDWARE CONNECTION
- POWER UP&OPERATION
- PACKING LIST



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BASIC CHARACTERISTIC:

1. Following shows the 5 parameters for product's basic characteristic.

Voltage measuring 0-100Volts
Power measuring 0-10000Watts
Amp-hours 0-9.999AH
Watt-hours 0-999.9WH

- 2. Automatically adjustment, adjustment procedure unnecessary.
- 3. Automatically exchanged between high & low current.
- 4. Automatically exchanged between high & low voltage.
- **5.** PC supported PowerView software, including monitoring & drawing function

Attention:

Current measuring range:

Power Analyzer running safely only in the range of designed 100A. Over 100A, may resulting equipment destroyed.

Voltage measuring range:

Power Analyzer running safely only in the range of designed 100V. Over 100V, maybe resulting equipment destroyed.



HARDWARE CONNECTION:



CAUTION: RED COLOR FOR POWER CABLE FROM ANALYZER ARE POSITIVE, BLACK COLOR ARE NEGATIVE. WRONG CONNECTION FOR POWER SOURCE AND/OR LOAD MAY CAUSED ANALYZER DAMAGE!!!

Current & Voltage:

Electricity in a wire equally like water flowing through a hose. At the end of the hose, you can see how fast the water is flowing out of the hose, this likes electric current flowing in a wire. Current is a measure of electricity stream flow in a wire. If you press your thumb over the end of the hose, you can feel the pressure of the water, this likes electric voltage in a wire. Voltage is how much pressure the electricity has at the terminals of a battery. Parameters, such as: Watts, Amp-hours and Watt-hours, are automatically calculated by Power Analyzer.

Measuring of Power source: Watts=Volts x Amps

Measuring of Amp-hours: Amp-hours=Average Amps × Hours

Measuring of Watt-hours: Watt-hours=Average Watts × Hours

Connection:

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Before using the Power Analyzer, it needs to attach connectors to the POWER SOURCE and LOAD leads. You need to have one a male and one female each side. Using the procedures, please see following connection instruction:

POWER SOURCE/LOAD SIDE:

RED WIRE are for power positive pole Input/Output.

BLACK WIRE are for power negative pole Input/Output.

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FEIGAO PROFESSIONAL FOR R/G MODEL

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POWER UP & OPERATION:

Power Up:

The minimum requirement to turn on the Power Analyzer is as battery that has to be at least 4.5 Volts. A NiCd or NiMH pack will need at least 5 cells, a Lithium pack will need 2 cells to do this.

CAUTION: MAKE SURE THAT THERE IS **NO** SHORT CIRCUIT FROM LOAD SIDE BEFOR YOU CONNECT BATTERY FROM POWER SOURCE.

Connect the battery pack to the POWER SOURCE. The display should show a startup screen. Power analyzer will automatically calibrate itself. After power analyzer finish startup. You may connect load from your LOAD side. This can be a battery discharger or a motor system.

Operation:

After applying power, a welcome screen is displayed, it remains few seconds. Then the measurements appear a few seconds later as follows:

Voltage: V Current: A Watts: W Amp-hours: AH Watt-hours: WH



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Amp-hours and Watt-hours share the same space, alternating every 3 seconds.

Volts: The displayed voltage is the voltage at the POWER SOURCE side of the Power Analyzer.

Current: The Power Analyzer has two ranges for current, that is, 0-19Amps and 20-100Amps. It automatically switches between high and low range. Low current range has a resolution of 0.05A. High current range has a resolution of 0.1A.

Watts: The amount of power flowing from the POWE SOURCE to the LOAD, definition is:

Watts=Amps × Voltage

Amp-hours: The displayed amp-hours indicates how much current has flowed from the POWER SOURCE to the LOAD. Measurement refers to the definition forehead.

Watt-hours: The displayed watt-hours indicate how much power has flowed from the POWER SOURCE to the LOAD. Measurement refers to the definition forehead.

Software Quick start:

Including working software, you will find more detailed instructions and perform procedures in the installation CD.

System Requirements: at least one available COM port, 8mb free hard drive space.

Operation System: Windows 95,98, ME, XP, NT, and 2000.

Hardware Installation:

1. Located a free COM port, this is usually located on the back of your computer

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and is a 9-pin male D connector.

- **2.** Plug the Power Analyzer cable into the COM port and assure the connection is good.
- **3**.Plug the other end of the cable into the socket of the Power Analyzer(white color for 4 pin connector face up). Drawing as follows:



FROM PC (9 Pin connector) TO POWER ANALYZER (4 Pin connector)

Software Installation:

Insert the installation CD into your computer CD-ROM drive. Click the Windows Start button, then select Run, then type D:\setup.exe, where D is your CD-ROM driver letter, or you can see the Browse button and browse to the same location.

Installation procedure follows the introductions to the software installation process. A PowerView icon will be shown on your desktop after installation finish.

For software use instruction, run PowerView software and read help menu, or read file directly from installation CD at /Program files/FEIGAO/HELP/power.

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Measuring:



To Battery To PC To Load.

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PACKING LIST:

Power Analyzer: 1 pc

Connection cable (from PC to Power Analyzer): 1 pc

Installation CD (included user manual): 1 pc

4mm Golden connectors: 2 pairs