

USER MANUAL FOR

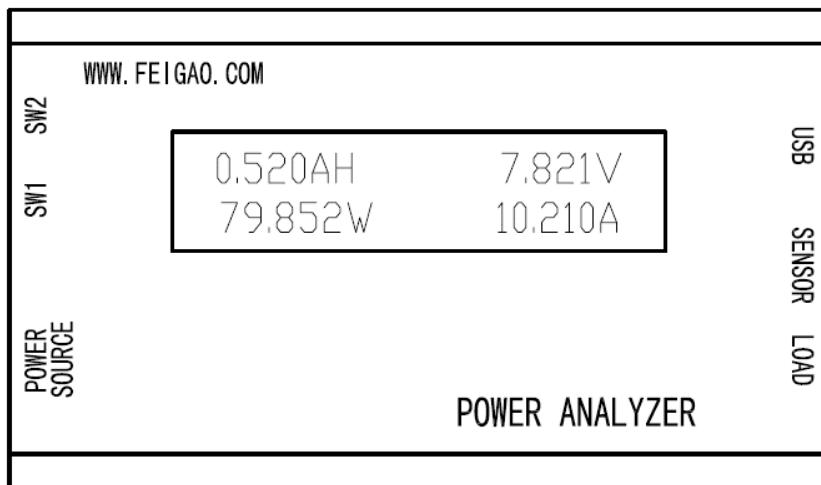
FEIGAO POWER ANALYZER

BASIC CHARACTERISTIC:

- 1.** Following shows the 9 parameters for basic characteristics of products.

Voltage measuring	DC0-100V
Current measuring	0-200Amps
Torque	0-6000g/cm
Tachometer:	1000RPM-100000RPM
Amp-hours	0-999.9AH
Watt-hours	0-9999.9WH
Power	0-9999Watts
Delivery efficiency	0%-99.99%
Output signals	Simulate PPM. 1-2ms

- 2.** Automatically adjustment, adjustment procedure unnecessary.
3. Automatically exchanged between high & low current.
4. Directly attach USB to PC or other controller products.
5. PC supported PowerView software, including monitoring & drawing function
6. Output signals Simulate PPM.



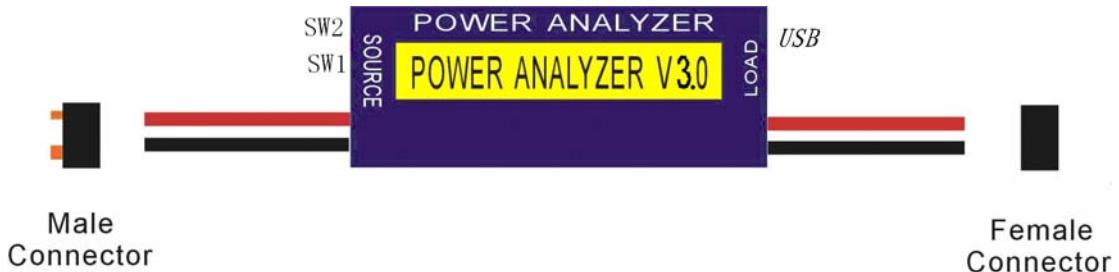
Attention:

Current measuring range:

Power Analyzer running safely only in the range of designed 200A. Over 200A, may resulting to equipment damage, even to life-unsafety.

Voltage measuring range:

Power Analyzer running safely only in the range of designed 100V. Over 100V, may destroy the equipment.

HARDWARE CONNECTION:**Explanation****Current & Voltage:**

Electricity in a wire equally is like water flowing through a channel. At the end of the hose, you can see how fast the water is flowing out of the hose, which 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, which 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 \times Amps

Measuring of Amp-hours: Amp-hours=Average Amps \times Hours

Measuring of Watt-hours: Watt-hours=Average Watts \times Hours

Delivery efficiency = Output power / Input power

Output power = Torque * Speed/9550

Connection:

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

connector to load lead and the male connector to the power source. please see following connection instruction:

Power Up:

The minimum requirement to turn on the Power Analyzer is the battery that has to be not at least less than 4.5 Volts. A NiCd or NiMH pack will need at least 5 cells, a Lithium pack will need 2 cell to do this.

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

Ppm:ms

Amp-hours and Watt-hours share the same space, alternating every 5 seconds. If PPM signal have changed, It'll show the PPM signal.

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

Current: The displayed current is the current at the POWER SOURCE side of the Power Analyzer.

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

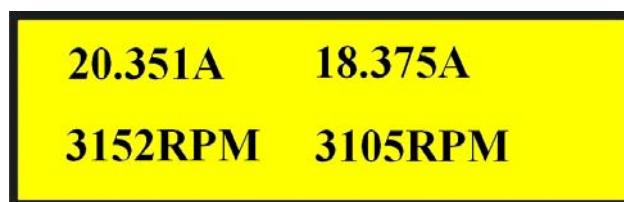
Watts=Amps×Voltage

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.

PPM: output1-2msPPM signal simulate remote control.

Press SW1 on the Power Analyzer. Turning to the second screen, displaying as follows.



Tachometer : RPM, Torque, Efficiency, Output power

Software Quick start:

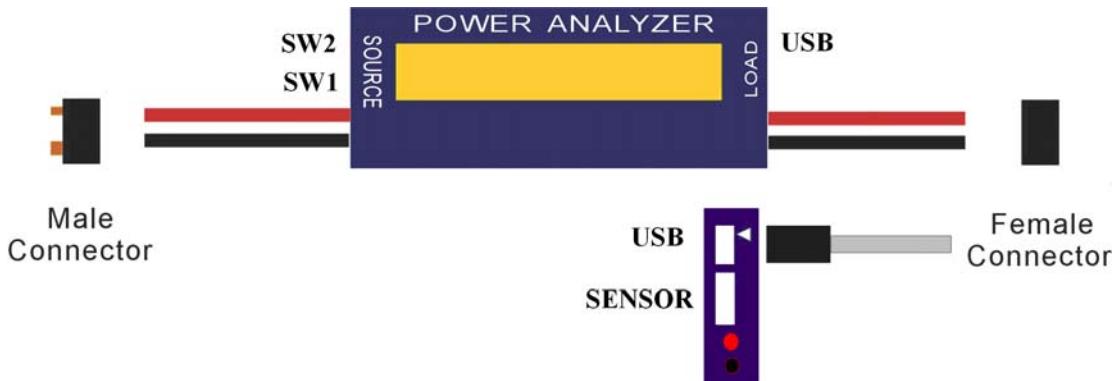
Including working software, you will find more detailed instructions and perform procedures in the installation CD.

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

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

Hardware Installation:

1. Located a free USB port.
2. Plug the Power Analyzer cable into the USB port.
3. Plug the other end of the cable into the socket of the Power Analyzer.
Drawing as follows:



Software Installation:

Insert the installation CD into your computer CD-ROM drive. The installation program should start running automatically. If the installation program does not start automatically, 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.

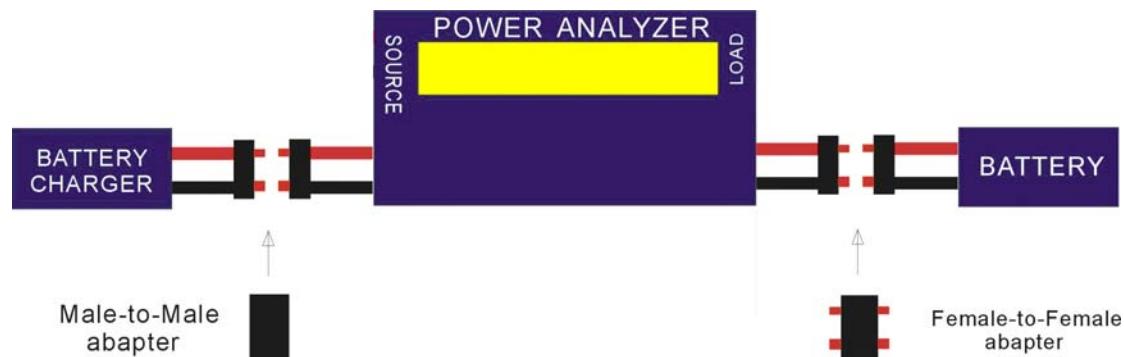
Installation procedure follows the introductions to the software installation process.

Measuring

Battery Voltage Measuring



Battery Charger Measuring



Motor Load Measuring:



Include: Power analyzer*1pcs

User Manual*1pcs

USB cable*1pcs

USB to JR cable*1pcs

Software CD*1pcs

RPM test part*1set