GREEN POWERLINK
Smart Energy Monitoring & Surge Protecting Solution

R9P014 / R9P125A6Z8 / R9P602NIZ8

User Manual

All Versions

August 2012

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INTRODUCTION

Thank you for purchasing the GREEN POWERLINK Energy Saving Solution, an innovative product which is designed to manage home electricity usage efficiently and reduce home electricity bill.

In an effort to reduce your electricity bills, why not first check out what appliance uses most energy in your home.

The New GREEN POWERLINK Energy Monitor allows you to take control of home electricity usage while saving you money in the process.

With GREEN POWERLINK, you can see how much electricity you are using and with greater awareness you'll become more energy efficient.

Fully educated with the critical energy information, you are naturally motivated to adopt new energy saving habits and reduce harmful carbon emission for our environment.

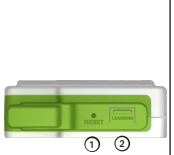
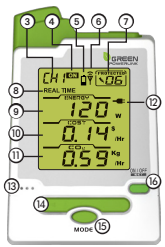
Besides energy conservation, the GREEN POWERLINK surge protectors are also equipped with fireproof Surge MOV technology and this ensures your home appliances are well protected and free of fire hazard during catastrophic surge events.

The GREEN POWERLINK is the total solution for green inspiration, energy conservation, and surge protection for your everyday life.

FEATURES AND FUNCTIONS

Smart Energy Monitor Features

R9P014

Top View	Front View	Side View	Back View
			

1. **RESET Key** : restore factory default
2. **LEARNING Key**: add new channel
3. Channel indicator
4. Indicates ON/OFF status of CH's energy saver outlets
5. Energy Monitor low battery indicator
6. Wireless Signal indicator
7. Surge event counter display
8. Real time and projection energy display mode
9. Energy Consumption display
10. Energy Cost display
11. CO2 emission display
12. Real Time and accumulative energy usage indicator: the plug icon flashes according to energy usage. The more energy you use, faster the icon flashes
13. Embedded alarm speaker
14. CH & cursor selector key
15. **MODE Key** : switch between real time, projection and accumulation energy display
16. **ON/OFF Key** : turn on/off the energy saver outlet
    SET Key : confirmation button
17. **AC/DC** power adaptor input
18. Battery compartment

Smart Energy Monitor Specification

Radio Frequency 915MHz		915MHz
Wireless Range		Up to 100 Ft
Functions	Control Energy Saver outlets ON/OFF	Yes
	Audible Alarm Alert	Yes
	Channels control and monitoring	Up to 9 Channels
	Learning Function	Yes
	Wall Mountable	Yes
LCD Dimension		45mm x 55mm
Replaceable Battery		AA Battery X4
AC/DC Adaptor Input		9V AC/DC adaptor included
Operating Temperature		5℃~45℃ at 85% relative humidity
Storage Temperature		-5℃~60℃ at 85% relative humidity

Wall Tap Surge Protector Features

R9P125A6Z8

1. Surge Protection LED Indicator

- The lighted green LED indicates the surge protection is working

2. Manual ON/OFF & LEARNING Key

- Manual ON/OFF Mode: press the Manual ON/OFF Key to turn ON/OFF the AC outlet
- Learning Mode: press the LEARNING key to pair up the surge protector with the energy monitor

3. AC Outlet

- Monitor individual home appliance electricity usage

Wall Tap Surge Protector Specification

Radio Frequency	915MHz
Wireless Range	Up to 100 Ft
Energy Saver Outlet	1
AC Rating	15A / 125V / 1875W
Surge Suppression Rating	180J
Clamping Voltage	500V
Surge Protected LED Indicator	Green
Energy Saver Outlet Power ON LED Indicator	Green
Manual ON/OFF , LEARNING Key	yes
Stand-by Power	< 1 W
Operating Temperature	5℃~45℃ at 85% relative humidity
Storage Temperature	-5℃~60℃ at 85% relative humidity

Strip Type Surge Protector Features

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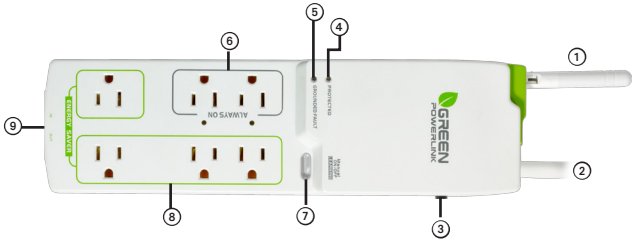

1. Wireless Antenna

- External antenna for better reception

2. AC Power Cord

3. Overload Resettable Circuit Breaker

- Protects against current overload at 15 Amps
- Press to reset the circuit breaker

4. Surge Protection LED Indicator

- The lighted green LED indicates the surge protection is working

5. Grounded Fault LED Indicator

- The Red LED light only illuminates to indicate the power outlets are not properly grounded

6. 2 "Always On" outlets

- Provide continuous power for connected devices

7. Manual ON/OFF & LEARNING Key

- Manual ON/OFF Mode: press the Manual ON/OFF Key to turn ON/OFF the energy saver outlets
- Learning Mode: press the LEARNING key to pair up the surge protector with the energy monitor

8. 4 "Energy Saver" outlets

- The Energy Saver outlets can be wirelessly turned ON/OFF by the smart energy monitor to eliminate stand-by power waste

9. Secondary Protection (Optional)

- Phone / Data line or Coax protection

Strip Type Surge Protector Specification	
Radio Frequency	915MHz
Wireless Range	Up to 100 Ft
Always On Outlets	2
Energy Saver Outlets	4
AC Rating	15A / 125V / 1875W
Surge Suppression Rating	640J
Clamping Voltage	400V
Surge Protected LED Indicator	Green
Grounded Fault LED Indicator	Red
Always On LED Indicator	Green
External Antenna	Yes
Manual ON/OFF , LEARNING Key	Yes
Stand-by Power	<1 W
Operating Temperature	5℃~45℃ at 85% relative humidity
Storage Temperature	-5℃~60℃ at 85% relative humidity

INSTALLATION

Wireless Setup Range

The energy monitor and surge protector communicate in two-way. To ensure energy monitor and surge protector communicate with no interruption, please locate and setup both devices within 100 Ft of range.

Install Wall Tap Surge Protector

The single outlet wall tap surge protector allows the user to track electricity consumption of individual home appliance and protect it against surge and voltage spikes.

1. Plug in the wall tap surge protector to a powered 125V AC outlet.
2. Plug in the appliance into the wall tap surge protector outlet.
3. The outlet power can be manually turned ON/OFF by pressing the "Manual ON/OFF" button on the wall tap surge protector. You may also turn ON/OFF the outlet power remotely by using the energy monitor **(see the operating instruction – channel mode).**

Install Strip Surge Protector

The strip type surge protector allows the user to track electricity consumption of group home appliances by area and protect them against surge and voltage spike.

1. Connect home appliances to the "ENERGY SAVER" outlets. These outlets are for appliances which do not need to be on all the time and can be completely turned off when not in use to eliminate stand-by power waste. The "ENERGY SAVER" outlets can be controlled ON/OFF by remote energy monitor **(see the operating instruction – channel mode).**
2. Connect home devices to the "ALWAYS ON" outlets. These outlets are not switchable and provide continuous power for appliances which always need to stay on at all time.

3. Plug in the AC power cord of the strip surge protector to a powered 125V AC outlet.
4. The "ENERGY SAVER" outlets power can be manually turned ON/OFF by pressing the "Manual ON/OFF" button on the strip surge protector.

Wall Mount the Strip Surge Protector

1. There are mounting holes on the back of the strip surge protector for wall or base board mounting.
2. Install screws (not included) on wall or baseboard surface (leaving at least 1/4 inch of the screw exposed).
3. Place and secure the Surge Protector on mounted screws.

INITIAL SETUP

Install Battery in Energy Monitor

Open the battery compartment on the back of the energy monitor and install 4 x AA 1.5V alkaline batteries with right polarity.

Warning: Reversing the polarity may damage the product.

Once batteries are installed, the energy monitor will turn on and enter initial setup mode. Please proceed and refer to the next instruction for initial setup.

Note:
Batteries are not included in the product kit.
Please do not mix and match different types / new & old batteries in use with the energy monitor.

Use an AC/DC Adapter (Optional)

The energy monitor can operate with a 9V AC/DC adapter, which can be purchased separately.
When the AC/DC adaptor is used in conjunction with batteries installed, the energy monitor will be powered by the AC/DC adaptor to save batteries life in the energy monitor.

Wall Mount the Energy Monitor

1. Select a spot within the wireless range to mount the supplied wall bracket for the energy monitor.
2. The ideal locations for the energy monitor wall mount are entrance of a room or location where the energy monitor can be easily seem and accessed.
3. Use adhesive tape or supplied screws to securely attach the supplied wall bracket to a wall.

Perform Energy Monitor Initial Setup

Please perform the following initial setup steps for first time operation
1. Date & Time Setup
2. Currency Setup

Note:
During anytime, you may press the SET button for 3 seconds to enter setup mode and change currency, electricity rate, and carbon emission rate.

Currency and Electricity Setup

event your local utility uses a tariff calculation other than flat electricity rate, please key in the average rate that most nearly resembles your utility's tariff schedule.

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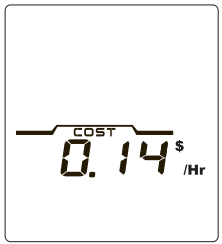


1. The $ symbol blinks first. Use the arrow key to select currency symbol in $ /€ /£
2. Press the SET button to proceed to Electricity Utility Rate setup.
3. The electricity rate value blinks. Use the arrow key to change the rate value.
4. Press the SET button to proceed to Carbon Emission setup.

Note: The default Currency is US dollar and default Electricity rate is 0.12 ¢ per KWH.

Carbon Emission Setup

Carbon dioxide is emitted in the process of producing electricity by burning coal & fossil fuel. This is usually referred to CO2 footprint or carbon emission, which in turn has contributed global warming and caused abnormal weather.

The average carbon emission rate is 0.49Kg (1.08 lbs) of carbon emission for every 1 KWH of electricity produced. This can be changed depending upon your local electric utility. Please contact your local utility for carbon emission rate.

The average carbon emission rate is 0.49Kg (1.08 lbs) of carbon emission for every 1 KWH of electricity produced. This can be changed depending upon your local electric utility. Please contact your local utility for carbon emission rate.

1. The **Kg** symbol blinks first. Use the **arrow key** to select the weight symbol in **Kg** or **LB**. Then press the **SET** button to proceed to carbon emission rate setup.
2. The carbon emission rate blinks. Use the **arrow key** to change the value. Press the **SET** button to finish initial setup.

Note: The default Carbon emission rate is 0.49Kg of carbon emission for every 1KWH of electricity produced.

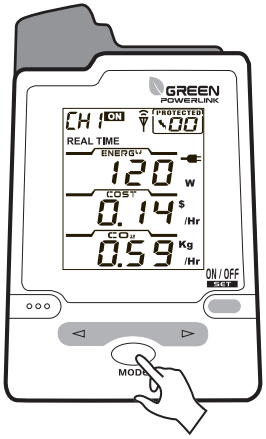
OPERATION

Energy Monitor Display and Control

The user friendly energy monitor allows user to monitor and control up to 9 energy tracking surge protectors.

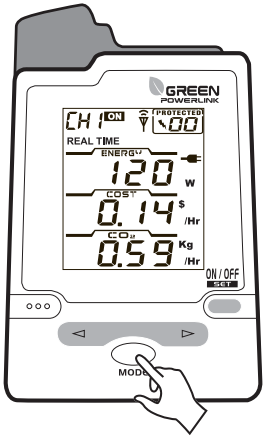
Discover home energy use by viewing real time, projection and accumulation energy information in Watts, KWH, Cost, and Carbon emission. Save money by adopting new energy saving habits and eliminating stand-by power waste.

Change channel to monitor different surge protectors



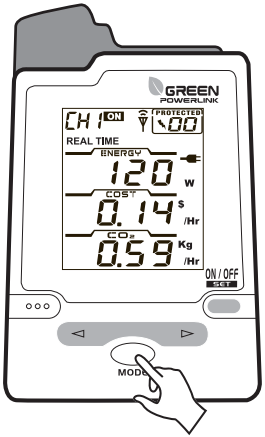
The energy monitor can monitor up to 9 energy tracking surge protectors. Each CH number represents an energy tracking surge protector.
Use the arrow key to change the channel from CH1 to CH9 to ALL channels. When CH number is changed to ALL, the energy consumption of ALL available Channels will be displayed.
The energy monitor will not display energy information when the selected channel does not exit.

Turn ON/OFF the energy saver outlets on the surge protector



The energy monitor can display the ON/OFF Status of the energy saver outlets on the surge protector.
To avoid turning on or off the energy saver outlets by accident, the ON/OFF function can only be accessed in real time mode.
In real time mode, use the **ON/OFF** Key on the energy monitor to turn ON and OFF the energy saver outlets of the surge protector.

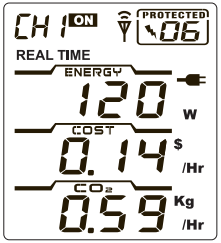
View real time and projection energy consumption



The energy monitor provides real time and projection energy information. Press the **MODE** button to scroll thru different energy information display.

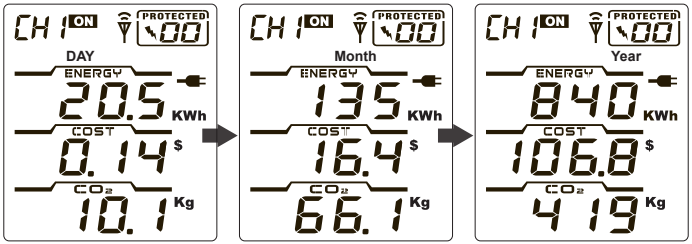
Real Time → Daily Projection → Monthly Projection → Yearly Projection

View Real Time energy information for the channel



In Real Time Mode, the energy monitor will display instant energy consumption in Watts, energy cost in $/hr, and carbon emission in Kg/hr.

View projection energy information for the channel



The energy monitor reads your device energy usage continuously while your device is on and off, and calculates the projection energy information base on real time and historical measurements.

We suggest let the energy monitor measure device several typical use cycles, and the projection energy information will be more accurate.

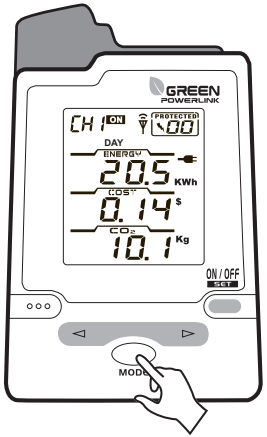
In Projection Mode, the energy monitor will display energy consumption in KWH, energy cost in $, and carbon emission in Kg.

Use the MODE key to change from daily / monthly / yearly projection energy information.

View accumulation energy consumption

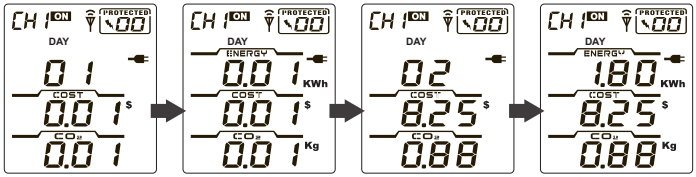
The energy monitor provides energy usage accumulation display. This allows you to view total accumulation energy usage in day, month and year for each channel.

Activate the energy accumulation mode for the selected channel



1. Select the channel you wish to acquire energy usage accumulation. You can active the energy usage accumulation for each channel in different time.
2. In DAY mode, press the MODE button 3 seconds to activate the energy accumulation mode.

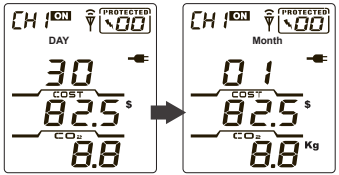
View total day energy accumulation for the selected channel



1. The energy monitor will first display DAY 01 for 3 seconds, then display the total energy accumulation data for 10 seconds in repeat cycle.
2. After 24 hours, the energy accumulation display will advance to DAY 02 and display the total energy accumulation data.

Note: the plug icon flashes repeatedly as an accumulation mode indicator

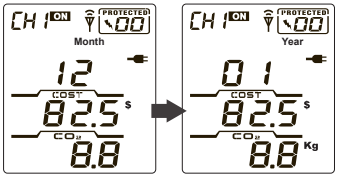
View total month energy accumulation for the selected channel



1. When the total energy usage accumulates over 30 days, it will move and store the total energy accumulation data in MONTH database, and the DAY accumulation data will be reset to 0 from DAY 01.
2. Press the MODE button to switch and view the total energy usage accumulation from DAY and MONTH

View total month energy accumulation for the selected channel

View total year energy accumulation for the selected channel

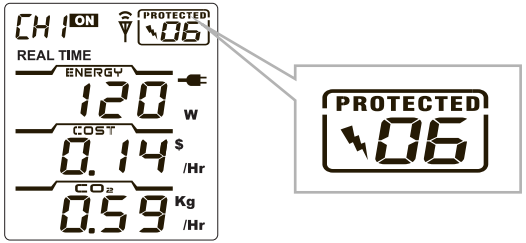


1. When the total energy usage accumulates over 12 months, it will move and store the total energy accumulation data in YEAR database, and the MONTH accumulation data will be reset to 0 from MONTH 00.
2. Press the MODE button to switch and view the total day energy usage accumulation from DAY, MONTH and YEAR.

Exit energy accumulation mode for the selected channel

1. In DAY accumulation mode, press the MODE button 3 seconds to exit the accumulation mode to DAY projection mode.
2. Channel energy usage will still be accumulated and store in device's database.

Surge events counter with sound alert



When energy tracking surge protector encounters surge events, the energy monitor will count and display the frequency of surge events with audible alert. With the surge events counter display, if surges happen very frequently in short period of time, this will allow the user to be aware and take the necessary actions or have the technician to check your home electricity circuitry.

Add Channels to the Energy Monitor by Learning

The energy monitor and the energy tracking surge protector in the kit are pre-paired and ready to use.
You can purchase more compatible energy tracking surge protectors and expand up to 9 CH by adding to the exiting energy monitor.

1. Hold the energy monitor close to the energy tracking surge protector.
2. In the energy monitor channel mode, use the arrow key to select which channel you wish to add the energy tracking surge protector.
3. On the energy tracking surge protector, press and hold the LEARNING button for 3 seconds until the green LED indicator light flashes and goes into learning mode.

Note: you can release the button once the indicator light goes flashing

4. Within 10 seconds, press the LEARNING button on the energy monitor to add energy tracking surge protector to the selected channel.
5. The Surge Protector will beep once to confirm that it has been successfully added to the channel on the energy monitor.
6. Redo step 3~5 if learning is not successful.
7. Repeat step 2~5 to add more energy tracking surge protectors to different channels on the energy monitor.

Reset the Energy Monitor to Factory Default

Please follow the instruction below to reset the energy monitor to its factory default setting.

Note:
By performing resetting energy monitor to factory default, all saved data, setup & channel settings will be erased.

1. Locate the reset point on top of the energy monitor.
2. Push a stylus or pen into the reset point for 5 seconds.
3. The energy monitor will be hard reset to factory default setting. Please perform all the necessary setup and channel setting.


CAUTION:

To assure continued FCC compliance:
Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.