

Power Monitor

User's Manual

ABOUT THIS MANUAL

This manual is designed for use with the Power Monitor. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

SAFETY INSTRUCTIONS

Always read the safety instructions carefully:

- Keep this User's Manual for future reference
- Keep this equipment away from humidity
- If any of the following situation arises, get the equipment checked by a service technician:
 - The equipment has been exposed to moisture.
 - The equipment has been dropped and damaged.
 - The equipment has obvious sign of breakage.
 - The equipment has not been working well or you cannot get it to work according to the User's Manual.

COPYRIGHT

This document contains proprietary information protected by copyright. All right are reserved. No part of this manual may be reproduced by any mechanical, electronic or other means, in any form, without prior written permission of the manufacturer.

TRADEMARKS

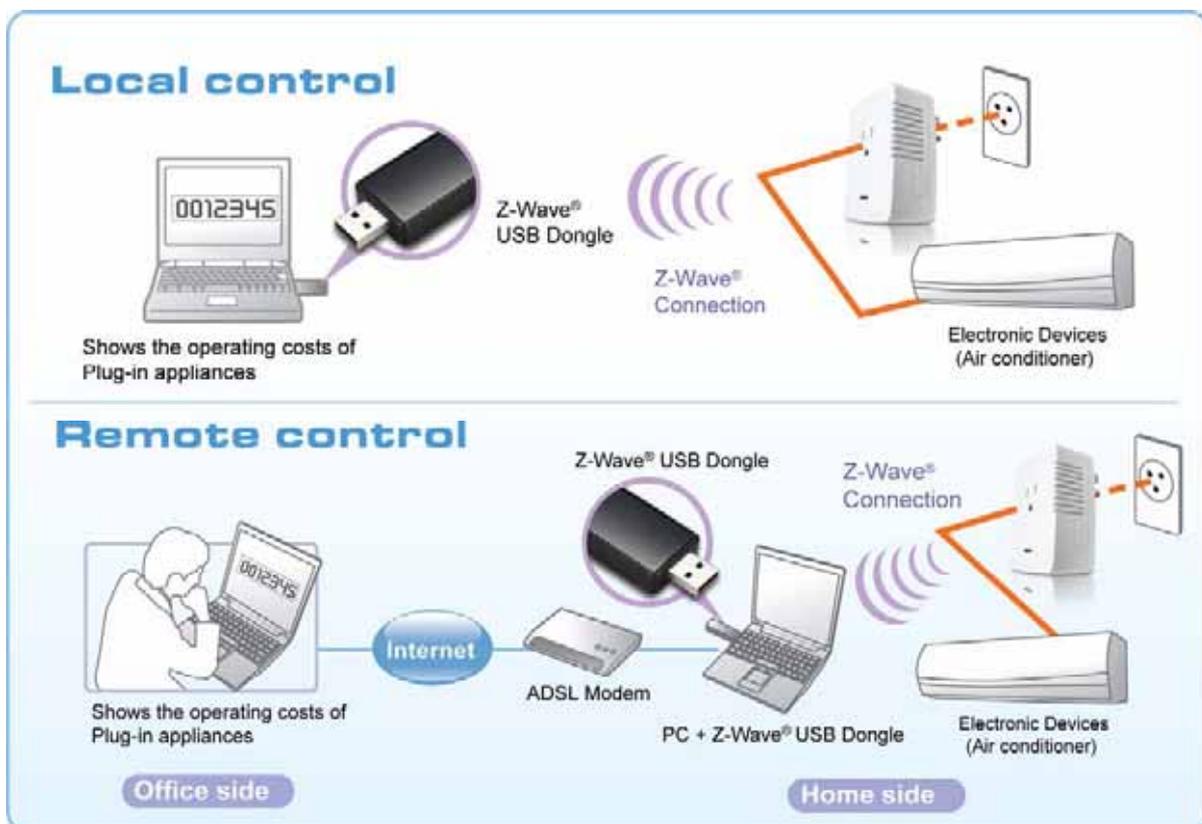
All trademarks and registered trademarks are the property of their respective owners or companies.

Table of Contents

1. Introduction	1
Features	2
Package Contents	2
Z-Wave	2
Wireless Range.....	2
2. Installation	3
Hardware Connection	3
Product Description.....	4
Installation Requirements	4
Installing the Power Monitor	5
3. Specifications	6
4. Regulatory Compliance	7
FCC Conditions	7
WEEE Information	7

1. Introduction

This Power Monitor enables you to find out what appliances are actually worth keeping plugging in and can save your energy costs. This Power Monitor can send and receive information to and from the Z-Wave[®] enable devices wirelessly. You can monitor the values of measurements and setup the functions in your home through PC connectivity with Z-Wave[®] USB dongle when you are away from home.



Caution: To avoid damage to the monitor, please keep from humidity and any inappropriate usage.

Features

- Simply plug in the wall outlet and attach the electronic appliances.
- Shows the operating costs of electronic appliances that plug into the power monitor.
- Calculates the cost of power consumed in time periods of hour, day, week, month and year.
- Display the values of the measurements on the remote site.
- Fully compatible with Z-Wave[®] enable network that can communicate with any Z-Wave[®] certified device.
- Act as a repeater that can re-transmit the Z-Wave[®] signal to ensure the intended destination is received.

Package Contents

- | | |
|-----------------|----|
| ■ Power Monitor | x1 |
| ■ User's Manual | x1 |

Z-Wave

Z-Wave is a state-of-the-art wireless technology used as a standard for wireless home control. It is a next-generation wireless ecosystem that lets all your home electronics talk to each other, and to you, via a controller or gateway. It uses simple, reliable, low-power radio waves that easily travel through walls, floors and cabinets. All products featuring the Z-Wave[®] logo are certified to work with one another.

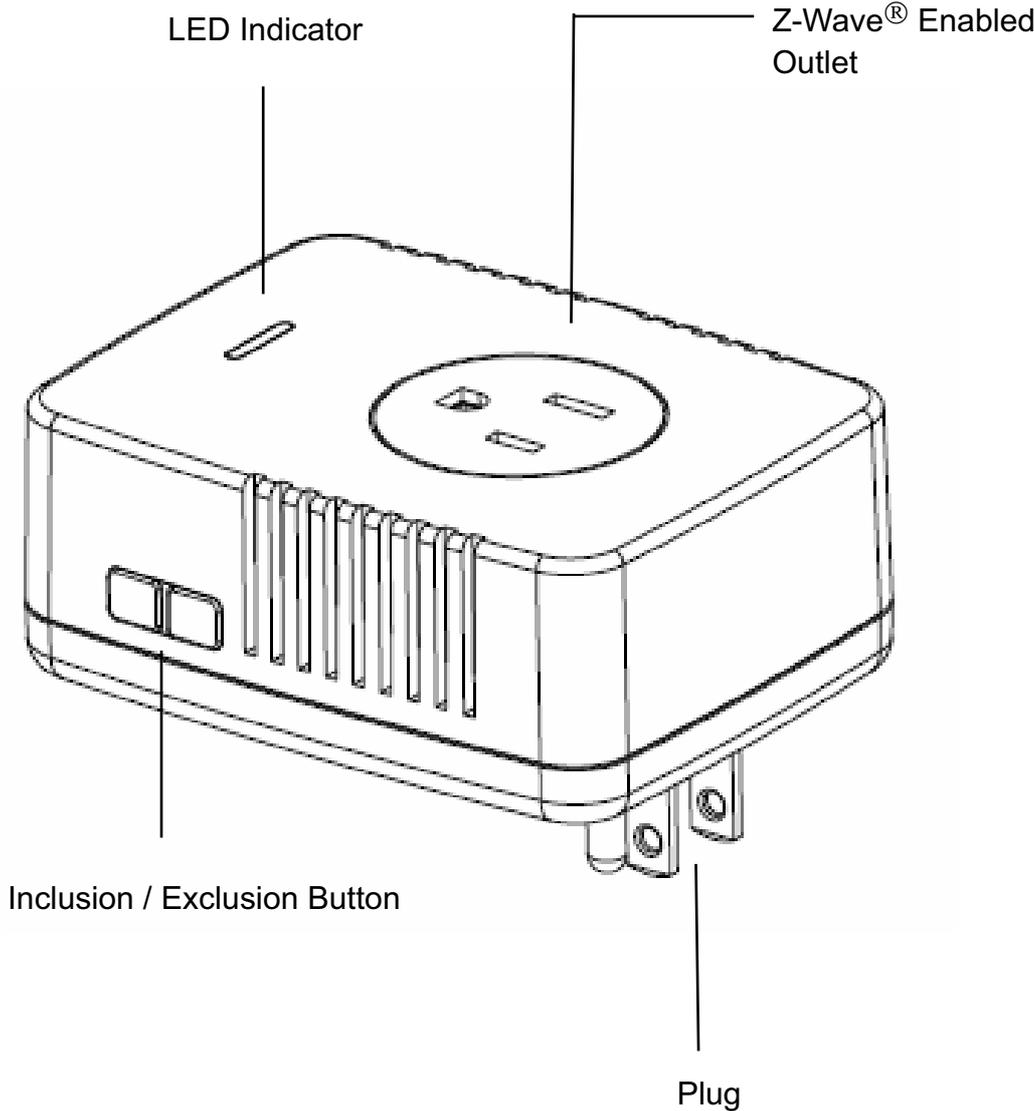
Wireless Range

The Power Monitor is made wireless by Z-Wave[®] technology.

Typical range for a wireless module is approximately 100 feet. When installing the module consider an open area with little obstruction for the best signal and performance. Avoiding the obstruction between the module and controller may make a negative effect on wireless performance and range.

2. Installation

Hardware Connection



Product Description

Below is a description of button, light and plugs for the Power Monitor.

LED Indicator

The LED (dual color) will light red to indicate the Power Monitor accesses to electricity. When the LED flash green, it stands for Z-Wave[®] RF under transfer/ receive status.

Z-Wave[®] Enabled Outlet

This outlet is used to plug in the device you wish to detect, such as your electric appliance. Note that any device plugged into this outlet must NOT exceed 1600 watts.

Inclusion / Exclusion Button

When the Power Monitor has been installed, pressing the button and making an inclusion / exclusion between the Power Monitor and Controller.

Wall Outlet Plug

Located on the back of Power Monitor, the plug is used to plug your module into an available wall outlet in your home or office.

Installation Requirements

To install this product you must have Z-Wave[®] enabled controller, such as Z-Wave[®] Dongle, to make an inclusion with Power Monitor.

Installing the Power Monitor

NOTE =====

Before you install or use this Power Monitor, please install your Z-Wave[®] controller first and make an inclusion for your Z-Wave[®] device. Not all Z-Wave[®] enabled remote controls have the same installation process. Actual instructions may vary; it depends on the software that Z-Wave[®] controller provided.

=====

1. Please plug the Power Monitor into an available wall outlet in your desired location of your office or home.
2. Operate your control panel from Z-Wave[®] controller to include the Z-Wave[®] device in your network.
3. Once the Power Monitor has been included in your network, you may see or get some information about the Power Monitor on your control panel or else to confirm that has been added. If not, try the process again or try deleting this Power Monitor from Z-Wave[®] controller first and include again.
4. When the Power Monitor has been added into Z-Wave[®] control panel successfully, you will control this Power Monitor by configuring it to a specific button or other else on your control panel. Refer to your Z-Wave[®] control panel for instructions on how to do this.
5. Now you can plug the electric appliance that you desire to detect the electric current, voltage, watt or frequency into the Z-Wave[®] enabled outlet on the Power Monitor.

3. Specifications

Item	Description
Protocol	Z-Wave [®] (Multi Channel / Multilevel Sensor / Meter Command Class)
Module Type	Plug connection
Max Voltage	120 VAC
Max Current	13.4 A
Max Power	1600 W
Operating Voltage	AC110~120V/60Hz
LED Indicator (Dual Color)	<ul style="list-style-type: none"> ■ Red color: Power On. ■ Green color: LED light flash by Z-Wave[®] RF transfer/ receive status.
Frequency	908.42MHZ(US)
Operation Range	Up to 100 feet (about 30m)
Data Rate	Up to 40kbps
Application	Indoor use
Working Environment	<ul style="list-style-type: none"> ■ Operation temperature : 10 ~ 45° C ■ Storage temperature : -10 ~ 80° C
Dimensions (Lx W x H)	67.9 mm x 89.3 mm x 57 mm
Weights	110 g
Housing	Plastic PC945
Flame Class	UL 94 V-0
Compliance	FCC, UL

Specifications are subject to change without further notice

4. Regulatory Compliance

This equipment has been tested and found to comply with the limits for a Class B digital □ device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable □ protection against harmful interference in a residential installation. This equipment generates, □ uses and can radiate radio frequency energy and, if not installed and used in accordance with □ the instructions, may cause harmful interference to radio communications. However, there is □ no guarantee that interference will not □

occur in a particular installation. If this equipment does cause harmful interference to radio or □ television reception, which can be determined by turning the equipment off and on, the user is □ encouraged to try to correct the interference by one or more of the □

following measures: □

-Reorient or relocate the receiving antenna. □

-Increase the separation between the equipment and receiver. □

-Connect the equipment into an outlet on a circuit different from that to which the receiver is □ connected. □

-Consult the dealer or an experienced radio/TV technician for help. □

□

You are cautioned that changes or modifications not expressly approved by the party □ responsible for compliance could void your authority to operate the equipment. □

□

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and □

(2) this device must accept any interference received, including interference that may cause □ undesired operation □

□

WEEE Information

For EU (European Union) member users:

According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

