Quick Start Guide - 5010Na ZBPLM-PCM
ZigBee Router with Blue Line Power Cost Monitor™ Interface

ZigBee Certified product *Pending*

Home

INSTEON ENABLED

(Meter and Sensor Not Included)

Product Brief

The ZBPLM-PCM receives energy information from a BlueLine Innovations PCM sensor and makes this information available to a ZigBee HA or INSTEON network.

This functionality allows energy consumption information from the utility meter to be utilized by ZigBee and INSTEON applications to monitor and automate energy efficiency.

ZigBee Set-up

1) Reset ZBPLM-PCM

1) Press the Program Button on the ZBPLM-PCM while plugging it into a 120V AC receptacle and release button after 6 sec.

- The ZBPLM-PCM should be plugged in within 30 feet of the meter

- The Status LED will blink rapidly when successfully reset.

2) Start/Join ZigBee Network

ZBPLM-PCM as Coordinator

1) Press Program Button for 6 seconds to start ZigBee HA network. Network will now allow ZigBee devices to join for up to 4 minutes.

ZBPLM-PCM as Router

1) Open Permit Join with a ZigBee HA Coordinator or Router to add the ZBPLM-PCM to the network.

- After resetting the ZBPLM-PCM, the device will start scanning to find an open ZigBee HA network.

INSTEON Set-up

1) Enable for INSTEON only

- If ZigBee will not be used for your application, setup the ZBPLM-PCM in INSTEON-Only mode. Otherwise skip this step.

- Press Program Button for 10 seconds and release. LED will be lit solid.

2) Link ZBPLM-PCM to INSTEON network according to instructions of your INSTEON controller

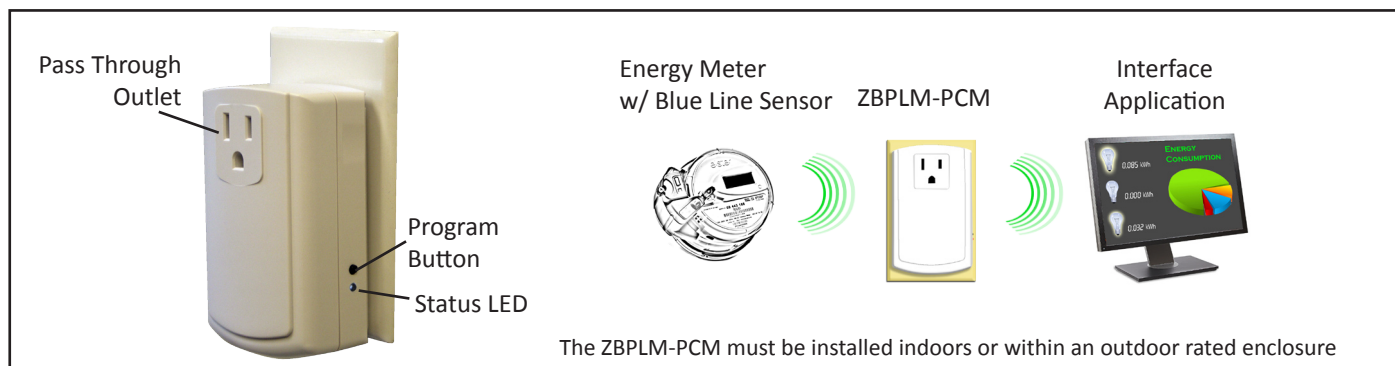## BlueLine Sensor Set-up

1) Set the kH factor on the ZBPLM-PCM

- The kH factor will be displayed on your power meter.

- Press Program Button for 3 seconds and release. LED will go out.
- Tap Program Button to set kH according to kH table.
- Press and hold Program Button for 3 seconds to complete. LED will blink to confirm number of taps.

2) Press the Reset button on the Blue Line Innovations PCM Sensor once.

- LED on ZBPLM-PCM will blink twice each time it gets an energy consumption signal from the PCM sensor.

- LED on PCM sensor will blink once each time it sends a signal.

Taps/ Blinks	Kh(Kt) Factor
1	1
2	1.8
3	3.6
4	7.2
5	10

kH Table

For more information, please visit our Wiki
http://wiki.simplehomenet.com

Pass Through Outlet

Program Button

Status LED

Energy Meter w/ Blue Line Sensor

ZBPLM-PCM

Interface Application

The ZBPLM-PCM must be installed indoors or within an outdoor rated enclosure

Rejoin to ZigBee Network (Router)

If the ZBPLM-PCM loses power or needs to be moved to a new location, the device will rejoin the network automatically once power has been restored. The Status LED will flash fast until the device re-establishes communication with the network.

Re-Sync Sensor

- Repeat Step-2 of Blue Line Sensor Set-up from page 1.

ZigBee Clusters

HA Profile (0x0104)		Device ID: 0x0007 on EP1 - CID 0x0501 on EP2 - IAS		
End Point	**Cluster ID**	**Cluster Name**	**Client/ Server**	**Cluster Description**
01	0000	Basic	Client/ Server	Attributes for determining basic information and settings
01	0003	Identify	Client/ Server	Attributes and commands for putting a device into Identification mode
02	0702	Simple Metering	Client/ Server	Provides mechanism to retrieve electric power usage

For more information, please visit our Wiki
http://wiki.simplehomenet.com