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ZigBee
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Quick Start Guide - ZBPCM 5010T

ZigBee Router with Blue Line Power Cost Monitor™ Interface



(Meter and Sensor Not Included)

Product Brief

The ZBPCM receives energy information from a BlueLine Innovations PowerCost™ Monitor 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) Locate and reset ZBPCM

- 1) Locate a suitable 120V AC receptacle within **30 feet** of the meter
- 2) While pressing the Program Button on the ZBPCM, plug it into the AC receptacle and release button after ~4 seconds.

2) Join ZigBee Network

- 1) Open Permit Join with a ZigBee HA Coordinator or Router to add the ZBPCM to the network.
- 2) **Tap** the Program Button **5 times**, then **press and hold** it in for about **3-4 seconds**. The LED will begin blinking, in search for a network.
 - The ZBPCM will scan to find an open ZigBee HA network.
 - The Status LED will blink rapidly until the ZBPCM has joined a ZigBee network.

INSTEON Set-up (Not necessary if already joined to ZigBee network)

1) INSTEON operation

- By default, INSTEON is always enabled, even if the ZBPCM joins a ZigBee network.

2) Link ZBPCM to INSTEON network according to instructions of your INSTEON controller

- Put compatible INSTEON device (Ex. Energy Meter model 2448A2) into linking mode as a controller of the ZBPCM.
- Press Program Button on ZBPCM for ~4 seconds to link to INSTEON controller.

BlueLine Sensor Set-up

1) Set the Kh factor on the ZBPCM (Set to 1 by default)

- The Kh factor will be displayed on your power meter.
- **Tap** Program Button **twice** and then **press and hold for 3 seconds** and release. LED will go out.
- Tap Program Button the number of times corresponding to the desired Kh factor per the Kh table.
- **Press and hold Program Button for 3 seconds** to complete.
- The accumulated current summation will be reset to zero.

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

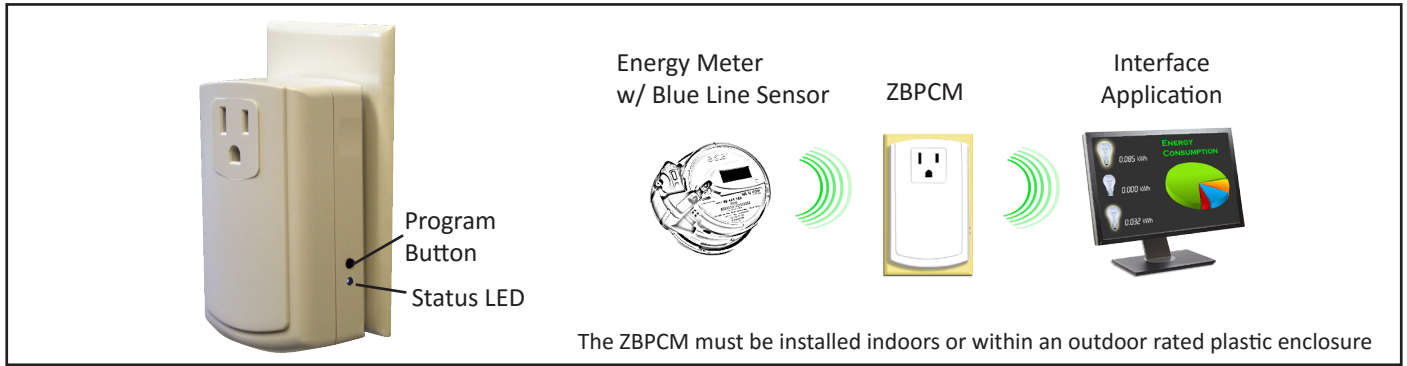
- LED on ZBPCM will blink the corresponding number of times for the kH factor set each time it gets an energy consumption signal from the PCM sensor.
- LED on PCM sensor will blink once each time it sends a signal.

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

kH Table

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Rejoin to ZigBee Network (Router)

If the ZBPCM 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 rapidly until the device re-establishes communication with the network.

Re-Sync Sensor

- Repeat Blue Line Sensor Set-up from page 1.

Enable for Control4

- After joining Control4 network, press and hold SET button for 10 seconds to enable compatibility.

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 Note: Current Summation is reset on power cycle