



# Model: AM1 Appliance Module

# Installation Guide and Owner's Manual



## FUNCTION

The AM1 Appliance Module is a high quality plug-in home automation load controller that is capable of turning 120VAC appliances and fluorescent lamps ON and OFF based on digital commands received over the power wiring from a remote UPB (Universal Powerline Bus) controller. UPB controllers and modules can be freely located anywhere throughout the home. No additional wiring is required and no radio frequency signals are used for communication.

## IMPORTANT SAFETY INSTRUCTIONS

When using electrical products, basic safety precautions should always be followed, including the following:

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. Keep away from water. If the product comes in contact with water or other liquid, turn off the circuit breaker and unplug the product immediately.
3. Never use products that have been dropped or damaged.
4. Do not use this product outdoors.
5. Do not use this product for other than its intended purpose.
6. Do not connect multiple lamps or appliances that, when combined, exceed the maximum load ratings of the product.
7. To avoid any risk of fire, burns, personal injury or electric shock, install this product out of the reach of small children.
8. Do not cover this product with any material when in use.
9. This product uses grounded plugs and sockets to reduce the risk of electric shock. These plugs and sockets fit only one way. If they do not fit, consult an electrician.
10. SAVE THESE INSTRUCTIONS.

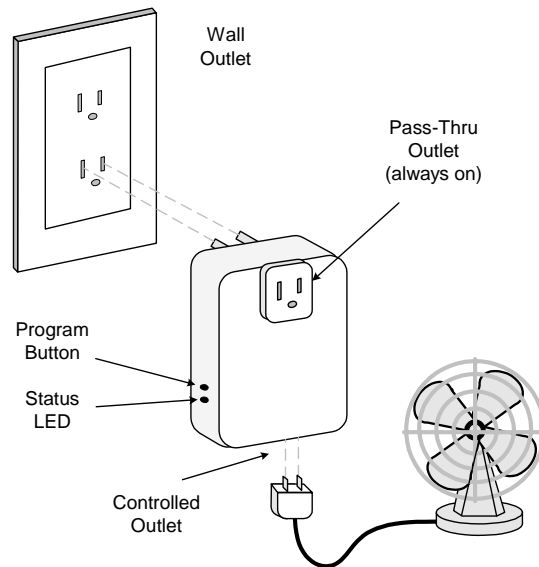
## INSTALLATION

The Appliance Module is designed for indoor use with devices that plug into a grounded power outlet. To install the AM1 module:

1. Locate the device to be controlled and unplug it from the wall outlet.
2. Plug the controlled device into the socket on the **bottom** of the appliance module. The appliance/device current rating must not exceed 12 Amps.
3. Plug the AM1 into the wall outlet (see illustration below).
4. Turn the device's power switch to its ON position.

If desired, another device can be plugged into the pass-thru outlet socket on the **front** of the appliance module, which is always powered.

**CAUTION:** Do not insert metal objects into the module while it is connected to power.





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### CONFIGURATION

Once your AM1 is installed it can be configured either manually or with the UPStart Setup Software.

Manual configuration can be used to add your AM1 device into a UPB network and link it to controller buttons. Refer to the Keypad Controller's Manual Configuration Guide available on the PulseWorx website ([www.PulseWorx.com](http://www.PulseWorx.com)) for more details.

Although the factory default operation of the AM1 is useful in many situations, it is highly recommended that your device be configured with UPStart Setup Software so that you can take advantage of its many configurable features.

PCS has developed a Powerline Interface Module (PIM) and free UPB Setup Tool software (UPStart) to help you configure all of your PulseWorx Lighting System devices. User's Guides are available on the PulseWorx web site: [www.PulseWorx.com](http://www.PulseWorx.com) to explain how to configure your system.

### SETUP Mode

When configuring a UPB system, it will be necessary to place the AM1 in SETUP mode. To do this, press the Program Button (see illustration) **five** times rapidly using a non-metallic toothpick. The Status LED will continuously blink Blue when the device is in SETUP mode. To exit SETUP mode, press the Program Button once or wait five minutes for it to time out.

### OPERATION

The Appliance Module operates according to commands sent by one or more UPB controllers. The AM1 can accept powerline commands from any UPB-compatible transmitter such as PulseWorx Keypad Controllers, Timed Event Controllers, Wall Switches, Interface Modules, approved Third-Party Controllers and touch screens. The AM1 can be a member of up to 16 scenes with the capability to store a pre-set relay state (on, off, or blink) for each scene.

### AUTO-OFF Timer

New for Generation 2 is the ability to set a maximum on time. If you forget to shut the appliance off yourself the appliance module will do it for you automatically. The AM1 can be configured to inform the rest of the network when it has automatically turned the appliance off. This allows the AM1 to remotely control other devices or update feedback indicators such as LEDs.

### TEST Mode

A manual test feature allows the device to be turned ON and OFF locally. To enable the TEST mode **press and hold the Program Button on the AM1 for three seconds**. The Status LED will blink Magenta to indicate TEST mode. The appliance can now be turned ON and OFF by single-tapping the Program Button. Press and hold the Program Button again for three seconds to exit from TEST mode.

### Factory Default Settings

To restore the following default settings put the AM1 into SETUP mode and then press the Program Button **ten** times rapidly. The Status LED will blink red to indicate that factory defaults have been restored. Press the Program Button twice more to stop the blinking.

<b>Network ID:</b>	255
<b>Unit ID:</b>	15
<b>Network Password:</b>	1234
<b>Receive Components:</b>	Link #1 = ON
	Link #2 = OFF
	Link #8 = Blink

### TYPICAL USES

The AM1 is perfect for controlling 120VAC non-dimming loads such as:

- Fans,
- Pumps,
- Low voltage transformers,
- Coffee makers,
- Christmas lights.

### LIMITED WARRANTY

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in materials and workmanship for a period of five years from the date of purchase. Refer to the warranty information on the PulseWorx website ([www.PulseWorx.com](http://www.PulseWorx.com)) for exact details.



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