Heat Link®

SMART))) SYSTEM

43304 Smart Plug

Installer/User Manual

HeatLink Group, Inc.

www.heatlink.com

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L643304 Smart Plug instructions   July 11, 2018

Product 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's 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.

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

 (1) l'appareil ne doit pas produire de brouillage, et

 (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Safety Instructions

Read these instructions before installing and using the Smart Plug, and keep this guide in a safe place for future reference.

Verify compatibility with your home system before installation.

Follow all instructions provided regarding the addition of devices to your Smart System. An authorized, qualified installer may be required.

HeatLink® accepts no responsibility for damage caused by not following these instructions.

Overview

The HeatLink® Smart Plug is an AC switch that allows the user ON/OFF control of the attached AC appliance and measures the power/energy consumption of the appliance. Supports loads up to 15 Amps (resistive).

The HeatLink® Smart System requires a 43301 wireless gateway, and can be configured with an internet connection (Online), or without (Offline). The free HeatLink® App must be downloaded to your Apple or Android device for use with your Online Smart System.
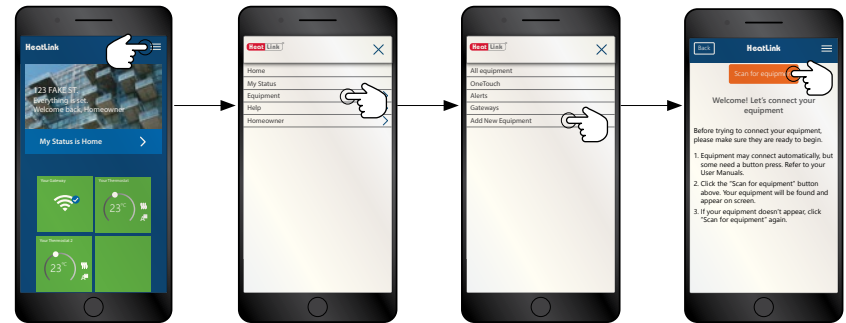

In order to use the app you must first create a profile. Follow the in app instructions to set up your profile.

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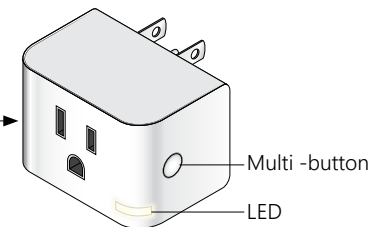
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Pair Mode

In order to add the Smart Plug to your system, the Gateway must be put into Pair Mode - follow the instructions below. See the device instructions, or the L3715 Smart System Installation Manual, available on www.heatlink.com, for more information.

The gateway LED will flash red when in pairing mode.

Plug the Smart Plug into a 120V receptacle. After a moment it will pair automatically.

Multi-button

LED

Using the Smart Plug

Note: Immediately after being plugged in, there is a slight delay before the Smart Plug switch starts measuring energy and responding to the button or remote commands.

• To toggle the Smart Plug (turn ON when OFF, or turn OFF when ON), press the Multi Button.

• To Force Rejoin to the system if the network is intermittent and/or other ZigBee devices are added/deleted, press the Multi Button 5 times quickly (less than ½ sec between presses).

• The Smart Plug features auto load sensing, that when the Smart Plug is OFF, the on/off switch of certain appliances can be used to turn ON the Smart Plug switch.

Note: Turning OFF the Smart Plug switch using the appliance switch is not supported.

• To turn ON the Smart Plug switch, start with the appliance switch in the on position. Turn the appliance switch off for about ½ sec, then back on. The Smart Plug switch will turn ON when it detects the brief off period.

Note: Certain appliances, such as some CCFL lamps and electronic equipment using wall transformers, cannot be monitored as their electrical characteristics do not change enough when the appliance on/off switch is changed.

Smart Plug Controls, Parts, and Indicators

Plug	NEMA 5-15 (Type B) plug. Compatible with US and Canadian standard 120VAC/15A electrical outlets
Socket	NEMA 5-15 grounded (Type B) outlet. Compatible with US/Canadian standard 120VAC/15A electrical plugs
Multi button	Multi-function user input button: Pair, Rejoin, Factory Defaults, and On/Off
LED	White LED status indicator

Specifications

Operating conditions	32 - 104ºF / 0 - 40ºC 10 - 90% humidity (non-condensing)
Storage	-4 - 185ºF/-20 - 85ºC
Protocols Supported	Zigbee HA1.2 Profile + basic Meter
RF Freq.	2.4 GHz
Input voltage	120VAC ±10%, 60Hz
Max. switch current	15 Amp resistive
Size including plug	2.13" × 1.46" × 2.32" / 54mm × 37mm × 59mm
Size not including plug	2.13" × 1.46" × 1.49" / 54mm ×37mm × 38mm

LED Indications

ON for 2 - 4 sec., then OFF	Switch power up, Switch is OFF
Flashing	Searching for network to join/Pairing mode
Steady ON	Switch is ON
Steady OFF	Switch is OFF
ON, flash OFF every 2 sec	Switch is ON, no network
OFF, flash ON every 2 sec	Switch is OFF, no network

Troubleshooting

Will not pair initially
 • Radio interference is present at the desired location
   a) Relocate the Zigbee receiver,
   b) Select a different location for the switch, or
   c) Add a Zigbee repeater to the system

Loss of connection after pairing
 • Make sure Zigbee receiver is operating
 • Radio environment may have changed
   a) Force rejoin to possibly find a better radio path, or
   b) Apply radio interference solutions as above.

Appliance doesn't turn on when LED on the switch is ON
 • Make sure the attached appliance is turned ON
 • Make sure the appliance can be controlled via the AC supply. Appliances with "soft" on/off buttons cannot be switched on by turning the AC supply ON.

Switch doesn't turn ON when appliance switch is turned OFF then back ON
 • Make sure the appliance is working by plugging the appliance into an outlet and using the on/off switch.
 • Make sure the appliance on/off switch starts in the ON state.
 • Make sure the appliance on/off switch can be monitored, ie. switch is not behind a transformer or a "soft" switch, CCFL can be monitored, etc.

Reset Smart Plug

To reset the switch to factory default settings, press the Multi Button while plugging in the switch and release the button when the LED comes on.

Multi -button

LED