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INSTEON™ ControLinc™ V2

INSTEON Tabletop Controller

For models:
#2430 ControLinc V2 Tabletop Controller



SMARTHOME™

MAKING LIFE MORE CONVENIENT, SAFE AND FUN

INSTEON ControlLinc V2 User's Guide

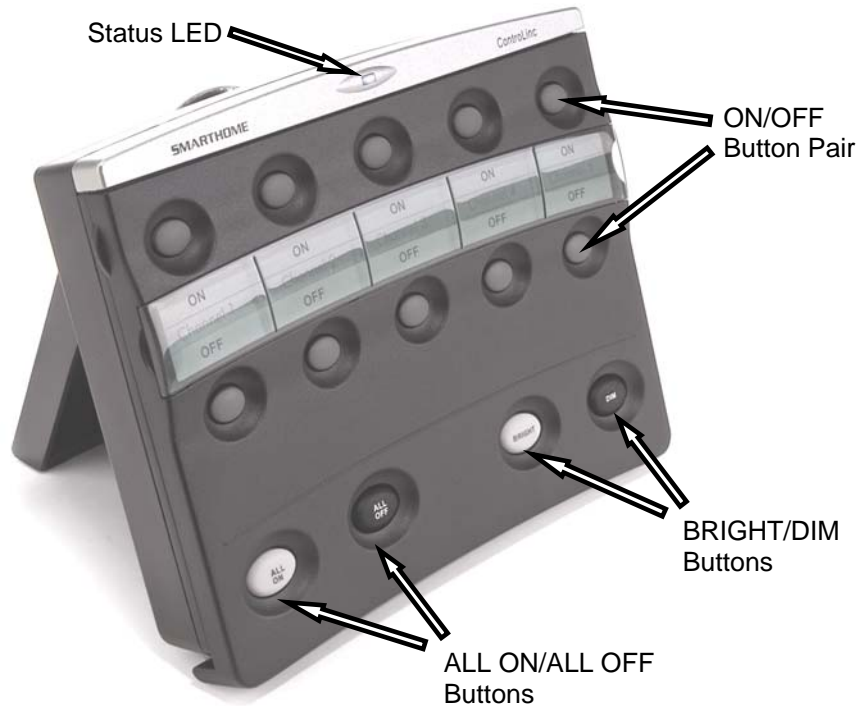


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ABOUT CONTROLINC

Congratulations on purchasing the INSTEON™ ControlLinc™ Tabletop Controller. ControlLinc allows you to use the power of INSTEON to control your home while maintaining backward-compatibility with legacy X10 products.



What is INSTEON?

INSTEON is a simple, reliable, and affordable breakthrough in home control. Simple, because Plug-n-Tap™ setup is a breeze, and there are no wires to add – INSTEON uses existing powerline wiring as well as radio-frequency for communication. Reliable, because every INSTEON device is a two-way repeater. And affordable, not just because of low cost, but because INSTEON also works with legacy X10 devices. An INSTEON home grows in value with every INSTEON device you add, making life more convenient, safe and fun.

Key ControlLinc Features

- Setup is easy – ControlLinc installs in minutes
- Controls X10 devices
- Shows INSTEON activity with a white status LED
- Stores setup state in memory, even while unplugged
- Warranted for two years

HOW TO INSTALL CONTROLINC

Caution

Read and understand these instructions before installing, and retain them for future reference.

ControlLinc is intended for installation in accordance with the National Electric Code and local regulations in the United States, or the Canadian Electrical Code and local regulations in Canada. Use indoors only. ControlLinc is not designed nor approved for use on power lines other than 120V 60Hz, single phase. Attempting to use ControlLinc on non-approved powerlines may have hazardous consequences.



Proper installation of at least two SignalLinc™ RF Signal Enhancers is required prior to installing and using other INSTEON devices.

ControlLinc Installation Tips

- Don't plug ControlLinc into an outlet controlled by a switch, because if the switch is inadvertently turned off, ControlLinc won't have power.
- Don't plug ControlLinc into a filtered power strip or AC line filter.

Installing ControlLinc

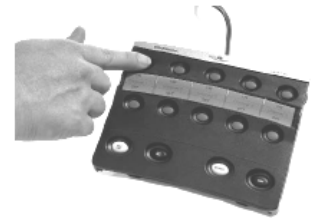
1. For best INSTEON Network performance, be sure you have properly installed at least two SignalLinc RF Signal Enhancers.
2. Plug ControlLinc into an unswitched wall receptacle. The white Status LED will illuminate steadily.

HOW TO SET UP CONTROLINC

Linking ControlLinc to an INSTEON Device

To control an INSTEON Device using ControlLinc, follow these steps to link ControlLinc and the INSTEON Device together. Refer to your INSTEON Device's User's Guide for detailed instructions on how to properly install it and link it to ControlLinc. The following will work for the most common INSTEON Devices.

1. Choose the ON/OFF Button Pair on ControlLinc that you want to use for controlling your INSTEON Device. There are 5 ON/OFF Button Pairs, labeled *Channel 1* through *Channel 5*. You can link multiple INSTEON Devices to a single ON/OFF Button Pair.
2. Set ControlLinc to Linking Mode by pressing and holding the **ON Button** of the pair for 10 seconds until the white Status LED begins blinking slowly. Don't let up too soon – 10 seconds is a pretty long time!



3. Select your INSTEON Device from the list below and follow the linking method for that Device. You have about 4 minutes to perform this step before ControlLinc's Linking Mode times out automatically.



- A. **LampLinc™ V2 Dimmer** – Press and hold the **SET Button** on the side of LampLinc V2 Dimmer for 3 seconds, then release. To confirm linking, LampLinc V2 Dimmer will blink its Status LED and also the light that it is controlling.



- B. **ApplianceLinc™ V2** – Press and hold the **SET Button** on the side of ApplianceLinc V2 for 3 seconds, then release. To confirm linking, ApplianceLinc V2 will blink its Status LED.



- C. **SwitchLinc™ V2 Dimmer** – Press and hold SwitchLinc V2 Dimmer's **Paddle Top** for 10 seconds, then release. To confirm linking, SwitchLinc V2 Dimmer will blink the top LED in its LED Bar and also the light that it is wired to.



- D. **KeypadLinc™ V2** – Press and hold the **ON Button** at the top of KeypadLinc V2 for 10 seconds, then release. To confirm linking, KeypadLinc V2 will blink the light that it is controlling.



- E. **Other INSTEON Devices** – See the INSTEON Device's User's Guide.

4. When your INSTEON Device is linked, ControlLinc will beep and its Status LED will remain steadily on.
5. Test that your INSTEON Device is working as expected by pressing the ON and OFF Buttons that you linked to.



Unlinking One INSTEON Device from ControlLinc

If you are no longer going to use an INSTEON Device that has previously been linked to ControlLinc, it is very important that you unlink it, because otherwise ControlLinc will retry any commands intended for the unused INSTEON Device, thus slowing down your system.

1. Using the ON/OFF Button Pair that you already linked your INSTEON Device to, set ControlLinc to Unlinking Mode by pressing and holding the **OFF Button** of the pair for 10 seconds until the white Status LED begins blinking slowly.
2. Follow the same method given above that you used to link your INSTEON Device to unlink it. On most INSTEON Devices, you just push a **SET Button** for 3 seconds.
3. When your INSTEON device is unlinked, ControlLinc will beep and its Status LED will remain steadily on.

Creating an INSTEON Scene

INSTEON Scenes let you activate dramatic lighting moods with the press of just one button. INSTEON Scenes are very easy to set up – just link more than one INSTEON Device to an ON/OFF Button Pair on ControlLinc. Then, when you press either the ON or the OFF Button on ControlLinc, all of the INSTEON Devices linked in the scene will respond as a group. You can link multiple INSTEON Devices to multiple of INSTEON Controllers.

To add an additional INSTEON Device to a scene controlled by an ON/OFF Button Pair on ControlLinc, simply follow the same procedure as above in *Linking ControlLinc to an INSTEON Device*. To remove an INSTEON Device from a scene, see *Unlinking One INSTEON Device from ControlLinc*.

TIP

You can avoid having to hold ControlLinc's ON Button down for 10 seconds for each INSTEON Device in a scene by placing ControlLinc in **Scene Setup Mode**, also called **Multilink Mode**.

1. Set the ControlLinc to Scene Setup Mode for the ON/OFF Button Pair you want to use for controlling the scene by pressing and holding the **ON Button** of the pair for 10 seconds, *then tapping the same ON Button again*. ControlLinc's Status LED will blink slowly.
2. Follow the linking method given above for the INSTEON Device you want to include in the scene. On most INSTEON Devices, you just push a SET Button for 3 seconds. ControlLinc will beep to confirm linking, and its Status LED will continue to blink slowly.
3. On some INSTEON Devices, you may be able to set up additional features, such as On-Levels or Fade Rates at this time.
4. Continue Steps 2 and 3 for any additional INSTEON Devices you want to link to the scene.
5. When you are finished linking INSTEON Devices to the desired ON/OFF Button, complete Scene Setup by pressing the **ON Button**. ControlLinc's Status LED will stop blinking and remain steadily on. You have about 4 minutes of inactivity before ControlLinc's Scene Setup Mode times out automatically.



ADVANCED FEATURES OF CONTROLINC

Resetting One ON/OFF Button Pair to Its Factory Default Settings

If you want to remove all INSTEON links from a single ON/OFF Button Pair, or if you cannot unlink a previously-linked INSTEON Device that has been lost or broken, follow this procedure.

1. Unplug ControlLinc's power cord for at least 10 seconds.
2. While holding down the **OFF Button** of the ON/OFF Button Pair that you want to reset, plug the ControlLinc back in. ControlLinc will beep and its Status LED will blink twice then illuminate steadily.
3. Release the OFF Button. The Status LED will blink off once. The ON/OFF Button Pair will now have no INSTEON Devices linked to it.

NOTE

INSTEON Devices that have been previously linked to ControlLinc will still respond to the ALL ON and ALL OFF Buttons, and dimmable INSTEON Devices will still respond to holding down the ON or OFF Buttons of the ON/OFF Button Pair that they were originally linked to, as well as the BRIGHT and DIM Buttons. The reason is that the INSTEON Devices themselves have not been unlinked from ControlLinc. Follow the procedure *Unlinking One INSTEON Device from ControlLinc.* above. to unlink individual INSTEON Devices.

Resetting ControlLinc to Its Factory Default Settings

The factory reset procedure can be used to clear the ControlLinc's memory and restore its factory default settings. This procedure will clear the unit of all INSTEON Links, and any programmed X10 Addresses.

1. Unplug ControlLinc's power cord for at least 10 seconds.
2. While holding down the **BRIGHT Button**, plug ControlLinc back in. ControlLinc will beep and its Status LED will blink as you plug it in, then its Status LED will illuminate brightly.
3. After plugging ControlLinc back in, continue to hold down the BRIGHT Button for 3 seconds. ControlLinc will beep twice and its Status LED will blink off then illuminate steadily at normal brightness.
4. Release the BRIGHT Button. The Status LED will blink off once. ControlLinc will now have no INSTEON Devices linked to it.

NOTE

INSTEON Devices that have been previously linked to ControlLinc will still respond to the ALL ON and ALL OFF Buttons, and dimmable INSTEON Devices will still respond to holding down the ON or OFF Buttons of the ON/OFF Button Pair that they were originally linked to, as well as the BRIGHT and DIM Buttons. The reason is that the INSTEON Devices themselves have not been unlinked from ControlLinc. Follow the procedure *Unlinking One INSTEON Device from ControlLinc.* above. to unlink individual INSTEON Devices.



Turning the Audio Beeper On and Off

This procedure toggles the sound OFF or ON. The factory default is ON.

1. Simultaneously press and hold the **ALL ON and DIM Buttons** for 3 seconds. ControlLinc will beep once and its Status LED will begin blinking slowly.
2. Release the ALL ON and DIM Buttons.
3. Press and release the **BRIGHT Button**. ControlLinc will beep twice and its Status LED will illuminate steadily.

Turning the Status LED On and Off

This procedure toggles the white Status LED OFF or ON. The factory default is ON.

1. Simultaneously press and hold the **ALL ON and DIM Buttons** for 3 seconds. ControlLinc will beep once and its Status LED will begin blinking slowly.
2. Release the ALL ON and DIM Buttons.
3. Press and release the **ALL OFF Button**. ControlLinc will beep twice and its Status LED will either be off or illuminate steadily.

X10 PROGRAMMING OPTIONS

ControlLinc is backward-compatible with X10, meaning that it can send X10 Commands to X10 Devices. Any of the 256 possible X10 addresses can be programmed for each of the five ON/OFF Button Pairs.

Adding X10 Control to an ON/OFF Button Pair

1. Simultaneously press and hold the **ALL ON and DIM Buttons** for 3 seconds. ControlLinc will beep and its Status LED will begin blinking slowly.
2. Release the ALL ON and DIM Buttons.
3. Tap **ON Button** for the desired ON/OFF Button Pair. ControlLinc will beep once and its Status LED will continue blinking.
4. Open the cover on ControlLinc by lifting up at the top. The cover's hinge is at the bottom of ControlLinc.
5. Select the X10 House Code *A* through *P* that you want to use. For *A* through *N*, simply press the button with that label. For *O*, press the ALL ON and BRIGHT Buttons simultaneously, and for *P*, press the ALL OFF and BRIGHT Buttons simultaneously. ControlLinc will beep once and its Status LED will continue blinking.
6. Select the X10 Unit Code *1* through *16* that you want to use. For *1* through *14*, simply press the button with that label. For *15*, press the ALL ON and BRIGHT Buttons simultaneously, and for *16*, press the ALL OFF and BRIGHT Buttons simultaneously. ControlLinc will beep twice and its Status LED will illuminate steadily.
7. Close the cover on ControlLinc.
8. The ON Button of the ON/OFF Button Pair will now send an X10 ON Command to the X10 address you set up, and the OFF Button will send an X10 OFF Command. If you linked any INSTEON Devices to the same ON/OFF Button Pair, the INSTEON Devices will still work. The ALL ON, ALL OFF, BRIGHT, and DIM Buttons will send commands first to INSTEON Devices, then to X10 Devices.



Removing X10 Control from an ON/OFF Button Pair

1. Simultaneously press and hold the **ALL ON and DIM Buttons** for 3 seconds. ControlLinc will beep and its Status LED will begin blinking slowly.
2. Release the ALL ON and DIM Buttons.
3. Press and hold the **OFF Button** for the desired ON/OFF Button Pair for 3 seconds. ControlLinc will beep twice and its Status LED will illuminate steadily.



SETUP SUMMARY

The following table summarizes the setup options for ControlLinc as described in the previous sections.

Linking		
Enter Linking Mode	Desired ON Button	Hold 10 Seconds
Enter Unlinking Mode	Desired OFF Button	Hold 10 Seconds
Enter Multi-Link Mode	Desired ON Button	Hold 10 Seconds
	Same ON Button	Tap
Exit Linking Mode	Any ON or OFF Button	Tap
Reset		
ON/OFF Button Pair	OFF Button	Unplug, hold button, re-plug
ControlLinc	BRIGHT	Unplug, hold button, re-plug
Toggle On/Off		
Beeper	ALL ON + DIM	Hold 3 Seconds
	BRIGHT	Tap
Status LED	ALL ON + DIM	Hold 3 Seconds
	ALL OFF	Tap
X10		
Add X10 to ON/OFF Button Pair	ALL ON + DIM	Hold 3 Seconds
	Desired ON Button	Tap
	House Code	Tap (under cover)
	Unit Code	Tap (under cover)
Remove X10 from ON/OFF Button Pair	ALL ON + DIM	Hold 3 Seconds
	Desired OFF Button	Hold 3 Seconds



HOW TO USE CONTROLINC

Using ControlLinc's Buttons

The following table gives an overview, and the sections thereafter give the details, on how to use ControlLinc's buttons.

Button	Applies To	Tap	Press and Hold
ON	Devices Linked to Button	Ramp to On-Level	Brighten
OFF	Devices Linked to Button	Ramp to OFF	Dim
ALL ON	All Linked Devices	Ramp to On-Level	N/A
ALL OFF	All Linked Devices	Ramp to OFF	N/A
BRIGHT	Last Button Pushed	Brighten a Little	Brighten Until Let Up
DIM	Last Button Pushed	Dim a Little	Dim Until Let Up

Using the ON and OFF Buttons

The ON and OFF Buttons have a dual purpose. If you tap them briefly, they turn INSTEON and X10 Devices linked to them on or off. If you hold them down, the ON Button will brighten and the OFF Button will dim any dimming modules linked to them. Holding down will not affect any non-dimmable (switchable) modules. So, if you just want to turn things on or off, *tap* the appropriate button – don't hold it down.

- To turn ON only those INSTEON and X10 Devices linked to an ON/OFF Button Pair, **tap the ON Button** of the Pair. ControlLinc will beep and its Status LED will blink off twice. Dimmable modules will go to whatever On-Level they were set up for, at whatever Fade Rate they were set up for. Switchable modules will immediately go full on.
- To turn OFF only those INSTEON and X10 Devices linked to an ON/OFF Button Pair, **tap the OFF Button** of the Pair. ControlLinc will beep and its Status LED will blink off twice. Dimmable modules will go full off at whatever Fade Rate they were set up for. Switchable modules will immediately go full off.
- To brighten only those dimmable INSTEON and X10 Devices linked to an ON/OFF Button Pair, **press and hold the ON Button** of the Pair. ControlLinc will beep and its Status LED will blink off once. Dimmable modules will begin to brighten, unless they are already fully bright. Switchable modules will not be affected. When you let up, dimmable modules will stop going brighter and ControlLinc's Status LED will blink off again.
- To dim only those dimmable INSTEON or X10 Devices linked to an ON/OFF Button Pair, **press and hold the OFF Button** of the Pair. ControlLinc will beep and its Status LED will blink off once. Dimmable modules will begin to dim, unless they are already fully off. Switchable modules will not be affected. When you let up, dimmable modules will stop going dimmer and ControlLinc's Status LED will blink off again.



Using the ALL ON and ALL OFF Buttons

The ALL ON and ALL OFF Buttons will turn on or turn off **all INSTEON and X10 Devices** linked to ControlLinc, no matter which ON/OFF Button Pair they are linked to.

BE CAREFUL

Choose carefully what you will be controlling with ControlLinc, because all INSTEON and X10 Devices will respond to the ALL ON and ALL OFF Buttons. Some INSTEON Devices can be set up so that they will not respond to the ALL ON and ALL OFF Buttons. Every X10 Device linked to ControlLinc, whether it is a dimming or a switching module, will respond to ControlLinc's ALL ON and ALL OFF Buttons. For X10 switching modules, this behavior is different from the response to ALL ON commands from X10 Controllers.

- To turn ON **all INSTEON and X10 Devices** linked to ControlLinc, **tap the ALL ON Button**. ControlLinc will beep and its Status LED will blink off once. Dimmable modules will go to whatever On-Level they were set up for, at whatever Fade Rate they were set up for. Switchable modules will immediately go full on.
- To turn OFF **all INSTEON and Devices** linked to ControlLinc, **tap the ALL OFF Button**. ControlLinc will beep and its Status LED will blink off once. Dimmable modules will go full off at whatever Fade Rate they were set up for. Switchable modules will immediately go full off.

Using the BRIGHT and DIM Buttons

The BRIGHT and DIM Buttons will brighten or dim only those INSTEON and X10 Devices linked to the last ON/OFF Button Pair you used. Switchable modules will not be affected. Pressing and holding the BRIGHT and DIM Buttons will adjust the brightness continuously, while tapping the buttons will adjust the brightness one of 32 steps for each tap.

- To continuously brighten only those INSTEON and X10 Devices linked to the last ON/OFF Button Pair you used, **press and hold the BRIGHT Button**. ControlLinc will beep and its Status LED will blink off once. Dimmable modules will begin to brighten, unless they are already fully bright. Switchable modules will not be affected. When you let up, dimmable modules will stop going brighter and ControlLinc's Status LED will blink off again.
- To continuously dim only those INSTEON and X10 Devices linked to the last ON/OFF Button Pair you used, **press and hold the DIM Button**. ControlLinc will beep and its Status LED will blink off once. Dimmable modules will begin to dim, unless they are already fully off. Switchable modules will not be affected. When you let up, dimmable modules will stop going dimmer and ControlLinc's Status LED will blink off again.
- To brighten by one step only those INSTEON and X10 Devices linked to the last ON/OFF Button Pair you used, **tap the BRIGHT Button**. ControlLinc will beep and its Status LED will blink off once. Dimmable modules will brighten one of 32 steps, unless they are already fully bright. Switchable modules will not be affected.
- To dim by one step only those INSTEON and X10 Devices linked to the last ON/OFF Button Pair you used, **tap the DIM Button**. ControlLinc will beep and its Status LED will blink off once. Dimmable modules will dim one of 32 steps, unless they are already fully off. Switchable modules will not be affected.

MOUNTING OPTIONS FOR CONTROLINC

Tabletop Mounting

You can use ControlLinc in a horizontal or a vertical position on the tabletop. To use in a vertical position, pull out the hinged stand on the bottom of the unit.

Changing the Button Labels

The smoked plastic cover over the button labels will pop off by lifting from the sides. You can print new labels using the templates available at www.smarthome.com/files/2430-4071_Label_Print.zip.



ABOUT INSTEON

Understanding Why an INSTEON Network Is Reliable

INSTEON messages travel throughout the home via Powerline Carrier (PLC) signals on the existing house wiring, and also via wireless Radio Frequency (RF). As the messages make their way to INSTEON devices being controlled, they are picked up and retransmitted by all other INSTEON devices along the way. This method of communicating, called a *mesh network*, is very reliable because each additional INSTEON device helps to support the overall network.

To further ensure reliability, every INSTEON device confirms that it has received a command. If an INSTEON Controller does not receive this confirmation, it will automatically retransmit the command up to five times.

Further Enhancing Reliability

As signals travel via the powerline or RF throughout the home, they naturally become weaker the farther they travel. The best way to overcome signals getting weaker is to increase the coverage of the mesh network by introducing more INSTEON devices.

It is possible that some audio-video products, computers, power strips or other electrical equipment may attenuate INSTEON signals on the powerline. You can temporarily unplug suspected devices to test whether the INSTEON signal improves. If it does, then you can plug in filters available from Smarthome that will permanently fix the problem.



Using Smarthome's SignalLinc RF to Upgrade Your INSTEON Network

SignalLinc™ RF Signal Enhancers are ideal for improving signal strength and network coverage throughout your home. SignalLinc RF acts like another member of the dual-band mesh network, tying it together by simultaneously retransmitting INSTEON signals across both radio-frequency and the powerline. It also provides an access point for RF-only INSTEON devices, such as handheld controllers.

In addition, two SignalLinc RFs provide a wireless path for INSTEON signals to travel between the two separate electrical circuits, called *powerline phases*, found in most homes. Without a reliable method for coupling opposite powerline phases, some parts of your home may receive INSTEON signals intermittently. With at least one SignalLinc RF plugged into one of the powerline phases, and at least one more plugged into the opposite powerline phase, INSTEON powerline signals will be strong everywhere in your home.





About INSTEON and X10

Possible BoosterLinc Interference with INSTEON

If you have installed older Smarthome Plug-In BoosterLinc™ X10 Signal Boosters or certain other BoosterLinc-enabled products, the older BoosterLinc technology may interfere with INSTEON communications.

Plug-In BoosterLinc X10 Signal Boosters, Smarthome #4827, shipped after February 1, 2005, with V3.0 or later firmware, are fully compatible with INSTEON.

The following Plug-In BoosterLinc X10 Signal Boosters use older firmware that may cause interference with INSTEON:

- White BoosterLinc X10 Signal Boosters, #4827, shipped before February 1, 2005, with V2.5 or earlier firmware
- All Gray BoosterLinc X10 Signal Boosters, #4827

Try unplugging the older BoosterLinc X10 Signal Boosters to see if this helps with INSTEON interference. If it does, please call 800-SMARTHOME (800-762-7846) for help with replacing your older BoosterLinc X10 Signal Boosters with newer INSTEON-compatible ones.

The following pre-INSTEON SmartHome products have BoosterLinc technology that you can turn on or turn off when you set the X10 Address for the product. If turned on, the BoosterLinc technology may interfere with INSTEON.



- KeypadLinc™ 6 with Integrated Dimmer, #12073W, #12073WB and #12073WW



- SwitchLinc™ Relay 2-Way, #23883 and #23883T



- ToggleLinc™ 2-Way Dimmer, #23890, and Switch, #23893

NOTE

To disable BoosterLinc X10 Signal Amplification on these products:

1. Press and hold the SET Button.
2. Send the X10 Primary Address.
3. Send an X10 OFF Command.

You can send an X10 ON Command in Step 3 to re-enable the BoosterLinc feature.

If you have any of these products and the BoosterLinc feature is turned on, please consult your User's Guide or call 800-SMARTHOME (800-762-7846) for help with turning it off. You may then wish to install newer INSTEON BoosterLinc X10 Signal Boosters, which Smarthome can help you with.

INSTEON's Effect on X10

If your existing X10 devices seem to be working less reliably after installing INSTEON devices, remember that INSTEON devices can absorb X10 signals just as X10 devices do, and that INSTEON devices do not repeat X10 signals. Installing INSTEON-compatible BoosterLinc X10 Signal Boosters, Smarthome #4827, or a SignalLinc Plug-In Coupler-Repeater, #4826, can increase X10 signal levels.

Please call 800-SMARTHOME (800-762-7846) if you have any questions or would like more help.



TROUBLESHOOTING

Problem	Possible Cause	Solution
The Status LED on my ControlLinc is not turning on at all.	ControlLinc is not getting power.	Make sure ControlLinc is not plugged into a switched outlet that is turned off.
My ControlLinc will not go into Linking or Unlinking Mode.	You didn't hold the ON or OFF Button down long enough.	Hold the ON or OFF Button down for at least 10 seconds.
The Status LED is still flashing after linking an INSTEON device.	You may be in Scene Setup (multilink) mode.	Tap the ON Button you are linking to in order to end Scene Setup mode.
My ControlLinc is not controlling INSTEON or X10 devices.	ControlLinc and your device(s) are on opposite powerline phases.	Make sure two SignalLinc RFs are properly installed to bridge the two powerline phases.
	ControlLinc is plugged into a power strip.	Powerline signals can't travel through power filters. Plugging ControlLinc directly into a wall outlet works best.
	Other modules are loading down the signal.	Move ControlLinc or the other modules to another outlet.
An INSTEON device is not linking or responding to ControlLinc.	The INSTEON signal may be too weak.	Add new INSTEON devices or move around existing INSTEON devices. All INSTEON devices act as INSTEON Network repeaters.
		Make sure you are not experiencing interference with older X10 BoosterLinc technology. Upgrade to INSTEON BoosterLincs.
		Try linking your ControlLinc to your INSTEON device with both of them plugged into the same outlet. Once linked, move them to the desired locations.
ControlLinc is locked up.	A surge or excessive noise on the powerline may have glitched it.	Unplug ControlLinc for 10 seconds and reinstall.
		If the above doesn't work, perform a Factory Reset.
My ControlLinc's Status LED keeps blinking whenever I press a button, and it takes a long time for my INSTEON or X10 Devices to respond.	ControlLinc may be waiting for a response from a lost or broken INSTEON Device.	If the INSTEON Device is available, unlink it from ControlLinc by following the directions in the section <i>Unlinking One INSTEON Device from ControlLinc</i> .
		If the INSTEON Device is not available or you are unsure which INSTEON Device ControlLinc is looking for, unlink all INSTEON Devices from the ON/OFF Button Pair by following the directions in the section <i>Resetting One ON/OFF Button Pair to Its Factory Default Settings</i> .
		Reset the entire ControlLinc by following the directions in the section <i>Resetting ControlLinc to Its Factory Default Settings</i> .
My INSTEON Devices don't always respond to my ControlLinc.	The ControlLinc may have been reset without first unlinking INSTEON Devices from it.	Re-link your INSTEON Devices to ControlLinc.
The Status LED on my ControlLinc doesn't work.	The Status LED may have been turned off.	Follow the directions in the section <i>Turning the Status LED On and Off</i> .
The beeper on my ControlLinc doesn't work.	The beeper may have been turned off.	Follow the directions in the section <i>Turning the Audio Beeper On and Off</i> .

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Problem	Possible Cause	Solution
All of my INSTEON or X10 Devices do not respond to ControlLinc's ALL ON or ALL OFF Buttons.	The ALL ON and ALL OFF Buttons only control INSTEON and X10 devices already linked to ControlLinc.	Link INSTEON or X10 Devices you want to respond to ALL ON and ALL OFF to ControlLinc.
All of my INSTEON or X10 Devices do not respond to ControlLinc's BRIGHT or DIM Buttons.	The BRIGHT and DIM Buttons only control INSTEON and X10 devices linked to the last ON/OFF Button Pair you pushed on ControlLinc.	Push the ON or OFF Button for the scene you want to control, then use the BRIGHT and DIM Buttons.
ControlLinc's plug does not fit in my wall outlet.	The polarized prongs on the plug are not compatible with older AC outlets.	ControlLinc's plug is polarized so that it may only be inserted one way into a receptacle. If your home's outlets are over 40 years old, replacing the outlet with a modern one will allow ControlLinc and many other modern devices to be used safely. DO NOT defeat this safety feature.

If you have tried these solutions, reviewed this User's Guide, and still cannot resolve an issue you're having with Signalinc RF, please:

- Search our online knowledge base at <http://smarthome.custhelp.com>.
- Call our Support Department at 800-SMARTHOME (800-762-7846).
- Email us at tech@smarthome.com.



SPECIFICATIONS

ControlLinc Specifications

General	
Smarthome Product Number	2430, INSTEON ControlLinc V2 Tabletop Controller
Warranty	2 years
Operation	
ON/OFF Button Pairs	5 Channels
ALL ON/ALL OFF Buttons	Control all INSTEON and X10 devices linked to Channels 1-5
BRIGHT/DIM Buttons	Control INSTEON and X10 devices linked to last pressed Channel
Audio Alert	Beeper, can be disabled
Status LED	White, can be disabled
Button Modes	INSTEON only, X10 only, INSTEON and X10 Combo Mode
Combo Mode Message Order	INSTEON, X10, INSTEON cleanup
Setup Memory	Non-volatile EEPROM
INSTEON Features	
INSTEON Addresses	1 hard-coded out of 16,777,216 possible
INSTEON Links	417 out of 16,777,216 possible
INSTEON Powerline Frequency	131.65 KHz
INSTEON Minimum Transmit Level	3.2 V _{pp} into 5 Ohms
INSTEON Minimum Receive Level	1 mV _{pp} nominal
INSTEON Messages Repeated	Yes
X10 Features	
X10 Addresses	Up to 5 of 256 possible
X10 Status Response	Supported
X10 Powerline Frequency	120 KHz
X10 Minimum Transmit Level	3.2 V _{pp} into 5 Ohms
X10 Minimum Receive Level	10 mV _{pp} nominal
X10 Messages Repeated	No
Mechanical	
Mounting	Included desk stand (flat or vertical)
Button Labels	Printable using template
Operating Conditions	Indoors, 32 to 122°F, up to 85% relative humidity
Dimensions	5.0" H x 6.4" W x 3.0" D
Weight	1 lb 5 oz
Electrical	
Supply Voltage	120 Volts AC +/- 10%, 60 Hertz, single phase
Surge Protection	MOV rated for 150 Volts
Power Cord	6 ft, 2-pin polarized plug
Certification	Safety tested for use in USA and Canada (ETL #3017581)



Certification

ControlLinc V2 has been thoroughly tested by ITS ETL SEMKO, a nationally recognized independent third-party testing laboratory. The North American ETL Listed mark signifies that the product has been tested to and has met the requirements of a widely recognized consensus of U.S and Canadian product safety standards, that the manufacturing site has been audited, and that the manufacturer has agreed to a program of quarterly factory follow-up inspections to verify continued conformance.



Limited Warranty

Seller warrants to the original consumer purchaser of this product that, for a period of two years from the date of purchase, this product will be free from defects in material and workmanship and will perform in substantial conformity to the description of the product in this User's Guide. This warranty shall not apply to defects or errors caused by misuse or neglect. If the product is found to be defective in material or workmanship, or if the product does not perform as warranted above during the warranty period, Seller will either repair it, replace it or refund the purchase price, at its option, upon receipt of the product at the address below, postage prepaid, with proof of the date of purchase and an explanation of the defect or error. The repair, replacement, or refund that is provided for above shall be the full extent of Seller's liability with respect to this product. For repair or replacement during the warranty period, call Smarthome customer service to receive an RA# (return authorization number), properly package the product (with the RA# clearly printed on the outside of the package) and send the product, along with all other required materials, to:

Smarthome, Inc.
ATTN: Receiving Dept.
16542 Millikan Ave.
Irvine, CA 92606-5027

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MAKING LIFE MORE CONVENIENT, SAFE AND FUN

Limitations

The above warranty is in lieu of and seller disclaims all other warranties, whether oral or written, express or implied, including and warranty or merchantability or fitness for a particular purpose. Any implied warranty, including any warranty of merchantability or fitness for a particular purpose, which may not be disclaimed or supplanted as provided above shall be limited to the one-year period of the express warranty above. No other representation or claim of any nature by any person shall be binding upon seller or modify the terms of the above warranty and disclaimer. In no event shall seller be liable for special, incidental, consequential, or other damages resulting from the possession or use of this product, including without limitation damage to property and, to the extent permitted by law, personal injury, even if seller knew or should have known of the possibility of such damages. Some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of damages, in which case the above limitations and/or exclusions may not apply to you. You may also have other legal rights that may vary from state to state.

INSTEON, Plug-n-Tap, ControlLinc, TesterLinc, SignalLinc, LampLinc, ToggleLinc, BoosterLinc, ApplianceLinc, KeypadLinc, FilterLinc, ProbeLinc, SwitchLinc, TempLinc, IR Linc and SmarthomeLive are trademarks of Smarthome, Inc. INSTEON networking technology is covered by pending U.S. and foreign patents.

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