



Plug-In Dimmer

Rated: 120VAC, 60Hz

Cat. No. HCP03

Incandescent: 300W max., 60W min.

INSTALLATION INSTRUCTIONS



DI-000-HCP03-00A

LIMITED 2 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for two years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such two year period the product is returned prepaid, with proof of purchase date, and a description of the problem to Leviton Manufacturing Co., Inc., Attn: Quality Assurance Department, 59-25 Little Neck Parkway, Little Neck, New York 11362-2591. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to two years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

For Technical Assistance Call:
1-800-824-3005 (U.S.A. Only)
www.leviton.com



DI-000-HCP03-00A

FEATURES

- Soft fade ON/OFF
- Intellisense Circuitry
- ON/OFF LED indicates status of load
- Manual ON capability at load
- Works with Transmitters and Controllers
- DHC Scene Capable
- One Button Programming

INTRODUCTION

Leviton Residential Powerline Carrier Components are designed to provide the greatest signal integrity and noise immunity possible. However, in some environments intense electrical noise can cause interference with the signal. Leviton has developed hardware and techniques for overcoming this interference when properly applied.

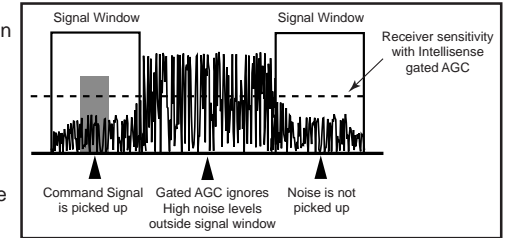
LEVITON'S DHC DEVICES FEATURE INTELLISENSE, THE RIGHT TYPE OF AUTOMATIC GAIN CONTROL (AGC)

Leviton DHC devices use Intellisense, a special gated-type of AGC, to help eliminate noise problems. This circuit feature is ideal for powerline carrier systems because it only operates during the signal window when receivers listen for command signals. Noise levels in the signal window are never as high as they are during other portions of the AC power curve. Therefore, Leviton's Intellisense gated AGC will desensitize a receiver to noise signals with only a minimal reduction in command signal sensitivity. The result: Problems from noise interference are dramatically reduced without affecting overall system performance.

It is the responsibility of the specifier/installer to test for signal strength and the presence of noise using Leviton test equipment, Cat. Nos. 6385 (Signal Test Transmitter) and 6386 (Signal Strength Indicator), and to properly apply signal coupling and noise reduction equipment according to the guidelines provided in the Decora Home Controls (DHC) Technical Manual and the DHC Troubleshooting Guide.

Leviton specifically denies any warranty of performance, stated or implied, where electrical noise interference exists at the time of installation, or subsequent to installation by the addition of noise-producing devices or equipment, or where these components have been installed for non-residential applications.

DHC Components are for residential use only. Installation for any other application voids any warranty, stated or implied.



DESCRIPTION

The Leviton Plug-In Dimmer Module, Cat. No. HCP03, is designed for use with DHC Residential Powerline Carrier Components. Cat. No. HCP03 functions as a remote dimming device which responds to coded DIM/BRIGHT, ON/OFF, and ALL LIGHTS ON/OFF commands.

The dimmer may be set to any of 256 address codes, to be selected at the time of installation. The desired address is set by depressing and holding the front button on the unit until its LED flashes (refer to Figure 1). The code is then learned from any transmitter when it sends a DHC command. The module is equipped with polarized 2 prong blades for insertion into a standard receptacle (refer to Figure 2). It also contains an integral polarized 2 prong receptacle for attachment of lamp cords (refer to Figure 3). It is suitable for use with incandescent lighting loads up to its rated capacity.

APPLICATIONS

DHC devices will not control lighting that is used with electronic low-voltage and high frequency power supply transformers, nor high pressure discharge lamps (HID lighting). This includes mercury-vapor, sodium vapor and metal halide lamps.

FCC COMPLIANCE STATEMENT

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 an 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 the 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.

INSTALLATION INSTRUCTIONS

WARNING: TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

WARNING: IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

WARNING: TO REDUCE THE RISK OF OVERHEATING AND POSSIBLE DAMAGE TO OTHER EQUIPMENT, DO NOT INSTALL TO CONTROL A MOTOR-OPERATED APPLIANCE, FLUORESCENT LIGHTING FIXTURE, OR A TRANSFORMER-SUPPLIED APPLIANCE.

CAUTION: UNPLUG UNIT WHEN SERVICING FIXTURE OR CHANGING BULBS.

CAUTION: SAVE THIS INSTRUCTION SHEET. IT CONTAINS IMPORTANT TECHNICAL DATA ALONG WITH TESTING AND TROUBLESHOOTING INFORMATION WHICH WILL BE USEFUL AFTER INSTALLATION IS COMPLETE.

TO INSTALL:

1. Locate lamp to be controlled by Plug-In Dimmer and ensure it is operational. Unplug lamp cord from wall outlet then turn lamp ON.
2. Attach lamp plug into dimmer receptacle noting proper polarity of blades.
3. Plug dimmer into wall receptacle. Verify that receptacle is live. If controlled by a wall switch, the switch must be kept ON at all times.
4. Depress and hold the programming button located on the front of the unit (**refer to Figure 1**). After a few seconds, the LED under the button will begin flashing. The unit is then ready to learn the code from the transmitter.
5. Adjust House and Unit Code on the appropriate transmitters using programming procedure (**refer to Transmitter Instruction Sheet for directions**). Press "ON" rocker or "ON" button of the appropriate row on multi-button controller. The dimmer will receive the code from the transmitter and set itself to it.
6. Verify that the dimmer works correctly by operating the ON/OFF and DIM/BRIGHT adjustments from the transmitter.
7. With the dimmer turned OFF, turn the switch located on the controlled lamp OFF for a few seconds, then ON again. The dimmer will turn the lamp ON full BRIGHT. This procedure can be used to turn ON the lamp without accessing the transmitter.
8. **INSTALLATION IS COMPLETE.**

TO OPERATE

ON: Tap the upper rocker or appropriate address "ON" button on the transmitter. The lights will BRIGHTEN to the last set light level.

OFF: Tap the lower rocker or appropriate address "OFF" button on the transmitter. The lights will DIM to OFF.

BRIGHTEN: Hold the upper rocker on the transmitter until lights BRIGHTEN to the desired light level. On a multi-button transmitter, press the "ON" button of the appropriate address. Then press the group "BRIGHT" arrow until lights brighten to the desired light level.

DIM: Hold the lower rocker on the transmitter until lights BRIGHTEN to the desired light level. On a multi-button transmitter, press the "ON" button of the appropriate address. Then press the group "DIM" arrow until lights dim to the desired light level.

NOTE: If dimmer is OFF, turn the switch located on the controlled lamp OFF for a few seconds, then ON again. The dimmer will turn the lamp ON full BRIGHT. This procedure can be used to turn ON the lamp without accessing the transmitter.

NOTE: If a power interruption should occur while the device in ON, the light load will return to its previous light level when power is restored.

TESTING PROCEDURE

With Cat. No HCP03 properly installed and powered-up, adjust the brightness level from the appropriate transmitter using the above procedure. The unit should respond as follows:

NOTE: If a power interruption should occur while the device is ON, the light load will return to its previous state when power is restored.

1. Transmit an OFF command to the module. It should respond by fading its assigned load to OFF.
2. Transmit the ALL LIGHTS ON command to this module from an appropriately coded controller. It should respond by fading its assigned load to ON at the last level used.
3. Transmit DIM and BRIGHT commands. Lighting load controlled should respond accordingly.
4. Transmit the ALL OFF command to this module from an appropriately coded controller. It should respond by fading its assigned load to OFF.

PERFECT PERFORMANCE CHECKLIST

If Cat. No. HCP03 appears to be functioning improperly, proceed with the following steps:

1. Confirm that the device is being supplied from a 120V, 60Hz AC source ONLY.
2. Confirm that the load being controlled is in proper working order. Local switch, ON (check for burned-out bulbs).
3. Confirm that the load being controlled does not exceed the 300W module limit.
4. Confirm that unit is programmed properly. Repeat program procedure from Step 4 under "TO INSTALL" section.
5. Confirm that the controller is powered and is set to transmit commands to the same letter and number code on the module.
NOTE: If the module still does not operate properly after following steps 1-7, the fault may not lie with the module. Proceed with steps 6 and 7.
6. Set the controller to transmit address P1. Using a Cat No. 6386 Signal Strength Indicator plugged in on the same branch circuit as the controller, confirm that the controller is transmitting a minimum reading of 2 volts of command signal at the HI-RANGE setting. If the signal strength is less than 2 volts, have the controller checked.
7. Check for the adequate command signal for Cat. No. HCP03 location as follows:
 - A. Plug the Cat. No. 6385 Signal Test Transmitter into a receptacle on the same circuit as the dimmer.
 - B. Using the Cat. No. 6386 Signal Strength Indicator at the HCP03 location, check the command signal amplitude. Signal strength must be 100mV minimum. If there is less than 100mV of signal present, it may be necessary to couple both legs of the 120/240 volt power service at the entrance panel using Cat. No. 6299 Signal Bridge.
 - C. If the YELLOW ERROR CONDITION indicator is lit, there is electrical "noise" present on the AC line which is interfering with proper module operation. The source of the noise must be identified and either filtered out or eliminated (**refer to Technical Manual**).

Figure 1 - Dimmer Functions

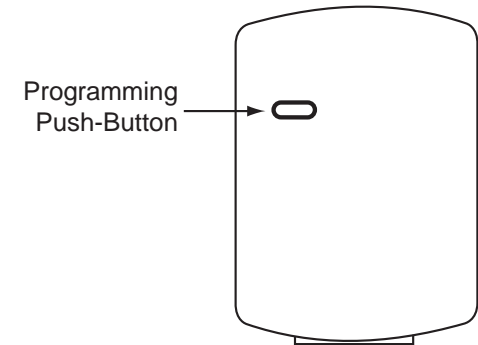


Figure 2 - Back of Dimmer Polarized Plug

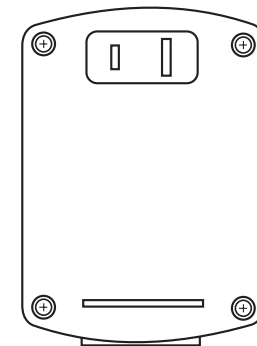


Figure 3 - Bottom of Dimmer Receptacle

