



Decora® Home Controls



Bringing
you the
smart home
of tomorrow...
today!

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Anyone can appreciate the idea of a smart home where you can control all lighting from multiple locations, or program lighting and appliances for convenience and energy savings. The problem is, smart homes haven't always made sense for everyone. Running new wiring to light switches and receptacles is extremely difficult and costly unless the house is under construction.

That's where Leviton's Decora Home Controls come in...

A series of intelligent lighting and appliance control components, Decora Home Controls (DHC) combine the best of all worlds. DHC components require no new wiring because they use the power-line wires that are already in your home to communicate with each other. To make them thoroughly dependable, Leviton added its acclaimed Intellisense™ signal integrity technology to proven Power-line Carrier design. DHC switches, dimmers and scene controllers are as easy to use and as reliable as conventional devices—and feature aesthetically pleasing Decora designer styling. It's the "smart home" technology approach that's also exceptionally smart in styling and value.

Instead of requiring a major rewiring project, in most homes adding a complete DHC Home Control system requires just a screwdriver and part of a weekend to accomplish. If you're comfortable with basic hand tools and electrical devices, you could start upgrading after lunch and, by dinnertime, relax with elegant, scene-controlled living room and dining entertainment lighting! Adding a remote-controlled, scene-capable lighting system to a home theater room can be done in less time than it takes to watch a single DVD.

Because DHC uses proven Power-Line Carrier technology, it's compatible with many popular control devices on the market, including lighting controls, timers, security products and even PC-based control platforms. And with Leviton's patented Intellisense™ technology and professional-grade construction, it's a system you can depend on day in and day out.

What Can You Do with Decora Home Controls?

With a DHC ALL LIGHTS OFF switch by your exit door, you're sure to never leave lights on no matter how harried your

departure. You can automate lights and appliances to go ON and OFF at specific times to add security lighting around your house or save energy by running appliances at night when energy rates are low...like pool filters and lawn sprinklers. You can even add mood-setting ambience to an intimate dinner or festive occasion at the touch of a button with DHC's multi-point "scene lighting." DHC not only lets you enjoy local, remote and programmed control of lighting and appliances, but does so without requiring any new wiring by making better use of your existing AC wiring system.

How do Decora Home Controls work?

DHC uses a communications protocol, similar to network protocols like TCP/IP, to communicate over your existing home AC power lines. DHC Controllers and Programmers send these commands, which are as simple as "Device A1: turn on," and DHC Receivers with the A1 address respond.

Like a broadcast network, every command is sent through every wire in your home; an individual receiver will respond to a particular command if it's addressed to it. A DHC Receiver, which can be a switch, receptacle or plug-in module can cause lights to turn ON/OFF, DIM/BRIGHT or work together in a "lighting scene" as well as switch appliances ON/OFF.

Components are as easy to install as standard switches and receptacles. You simply replace existing regular switches and receptacles with the appropriate DHC Receptacle or Switch Receiver Modules and you are ready to enjoy the comfort, convenience and energy savings of your new DHC-enabled home.

For example, you can use DHC to turn a lamp ON and OFF with a DHC Controller from a remote location. To do this, you just configure any DHC Controller (such as a DHC Controller Wall Switch) and a DHC Receiver (such as a DHC Plug-In Lamp Module) to the same address. Plug a lamp into the Plug-In Receiver and then turn the lamp on. Voila! You can now use any DHC Controller or Programmer anywhere in your home to turn the lamp ON and OFF.

DHC Addressing

To identify individual devices and groups of devices, DHC uses an addressing scheme that provides up to 256 unique



addresses. House codes are written as a single letter in the range A-P. Unit codes are a decimal number between one and 16. Examples of valid house codes are A1, J13, and P16. Unlike the IP addresses used on the Internet, DHC addresses do not have to be unique. You should give a single address for each group of DHC Receivers that you would like to have respond to the same command from a DHC Controller or Programmer. For example, if you want to turn on two lamps with a single switch, connect a DHC Plug-in Lamp Receiver Module to each lamp and configure both modules with a single address. If you want all of the lamps in a room to be controlled by a single command, the Receivers controlling them – Plug-In Lamp, Receptacle or Wall Switch Receivers – should all be assigned a single address.

DHC “Scene Lighting”

A “lighting scene” is a collection of preset levels of different light fixtures, each with a different DHC address. In response to a single key press on a Scene Programmer, multiple light fixtures provide different preset light levels simultaneously, working together to create a “lighting scene” conducive to one or another type of activity – from elegant dining to watching a movie in a home theater. Each Scene Capable Receiver, with an assigned address for controlling a light fixture, can learn up to 64 scenes. Leviton offers a Seven-Scene Programmer as well as the Toscana™ Deluxe Programmer that can control up to 64 separate scenes.

Intellisense™ For Superior System Reliability and Performance

Leviton’s DHC offers you a smart home with unmatched versatility because it uses a home’s existing AC wiring as its communications network for command signals. But every home has some electrical “noise” on the AC lines that can cause interference with command signal reception.

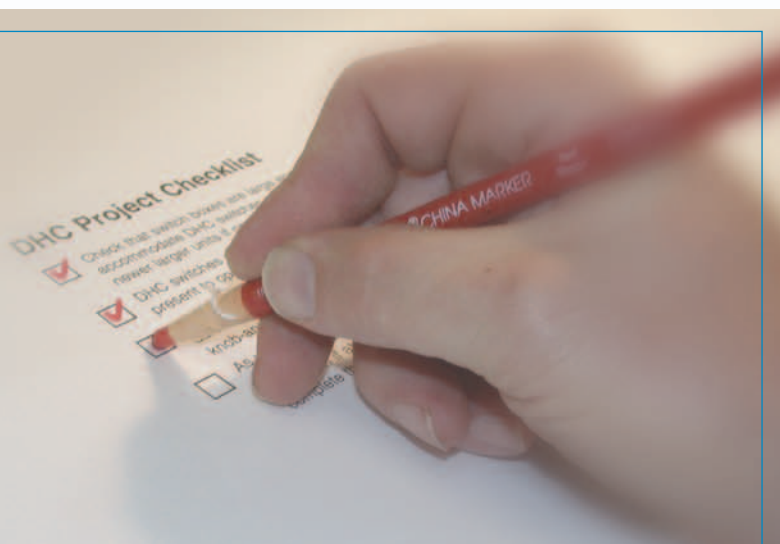
That’s why Leviton DHC Receivers have been equipped with special Intellisense™ circuitry, a Leviton exclusive that provides DHC Receivers with outstanding noise immunity while maintaining superior sensitivity to command signals. Leviton’s Intellisense™ is so effective at reducing noise interference and providing enhanced command signal performance and reliability that it was awarded a Home Automation Association Technology Award.

Decora Designer Styling

Leviton’s Decora line of designer-styled wiring devices is the perfect accompaniment to the advanced technology of DHC components. Since DHC Wall Controllers and Wall Switch and Receptacle Receivers are compatible with Decora-style wallplates, any DHC installation can be enhanced with Leviton’s wide selection of Decora wallplates and Decora Plus snap-on wallplates.

DHC Project Checklist

1. Check that switch boxes are large enough to accommodate DHC switches and update with newer larger units, if necessary.
2. DHC switches require that a neutral wire be present to operate correctly.
3. Make sure wiring meets current local standards. DHC switches cannot be installed with old knob-and-tube or aluminum wiring.
4. As with any electrical upgrade project, if you are a novice or beginner and unsure of your ability to complete the project correctly, it is recommended you contact a qualified electrician.



Controllers (Green Line)

HCCPG-1TW*

Toscana™ Deluxe Programmer,
2-way communication



HXC10-1TW*

One-Address
ON/OFF
Controller, 2-way
communication



HXC1A-1TW*

ALL ON/ALL OFF
Controller, 2-way
communication



HXC1D-1TW*

One-Address
ON/OFF Controller,
DIM/BRIGHT
Center Rocker, 2-
way communication



HXC2D-1TW*

Two-Address
ON/OFF, GROUP
DIM/BRIGHT
Controller, 2-way
communication



HXC3D-1TW*

Three-Address
ON/OFF, GROUP
DIM/BRIGHT
Controller, 2-way
communication



HXC4A-1TW*

Three-Address
ON/OFF, GROUP
DIM/BRIGHT,
ALL ON/ALL OFF
Controller, 2-way
communication



HXC4D-1TW*

Four-Address
ON/OFF, GROUP
DIM/BRIGHT
Controller, 2-way
communication



HXC7S-1TW*

Seven-Scene ON,
Last Scene OFF, Last
Scene DIM/BRIGHT
Scene Controller, 2-
way communication



RF PRODUCTS

HCCUR

Universal RF
Remote, DHC
control via RF
and learning I/R
A/V remote
(For use with
Cat. No. HCPRF)



HCCKR

Key chain RF
Remote, ON/OFF
control for two
addresses
(For use with
Cat. No. HCPRF)



HCPRF-1TW*†

Plug-in RF
Transceiver,
for HCCUR and
HCCKR RF Remotes.
Includes switched
outlet, 2-way
communication



* Features exclusive Intellisense™ Technology (gated automatic gain control) for enhanced command-signal performance and reliability

† Features easy one-button programming

Receivers (Green Line)

HCM06-1SW*

600W/VA, Scene-Capable Dimming Switch, 3-way capable



HCM06-1DW*†

600W/VA, Scene-Capable Dimming Switch, 3-way capable, LEDs



HXM06-1TW*†

600W/VA, Scene-Capable Dimming Switch, 2-way communication, LEDs



HCM10-1SW*

1000W/VA, Scene-Capable Dimming Switch, 3-way capable



HCM10-1DW*†

1000W/VA, Scene-Capable Dimming Switch, 3-way capable, LEDs



HXM10-1TW*†

1000W/VA, Scene-Capable Dimming Switch, 2-way communication LEDs



HXS08-1TW*†

8 Amp/1000W/VA, Scene-Capable Switch, 2-way communication



HCS10-1SW*†

10 Amp/1200W/VA, Scene-Capable Switch, 3-way capable



HCP03-10W*†

300W Incandescent, Scene-Capable Plug-in Dimming Module



HXP15-1TW*†

15A/1800W, Scene-Capable ON/OFF Appliance Plug-in Receiver Module, 2-way communication



MS00R-1

Multi-Remote Dimming Switch for 3-way and 4-way control



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† Features easy one-button programming

Controllers (Red Line)

6330
Burglar Alarm
Interface



6312
Basic
Wall-Mount
Programmer,
timer-based
control of eight
addresses



6320
Table Top Controller
16 address ON/OFF,
ALL ON/ALL OFF,
DIM/BRIGHT



16400*
Uni-base
Controller Body



6315
ON or OFF
Maintained
Contact
Controller



6316
ON or OFF
Momentary
Contact
Controller



16450-1
One-Address
ON/OFF Face
(For use with
16400 base)



16450-1A
ALL ON/ALL OFF
Face
(For use with
16400 base)



16450-2
Two-Address
ON/OFF Face
(For use with
16400 base)



16450-2D
One-Address
ON/OFF,
DIM/BRIGHT
Face
(For use with
16400 base)



16450-4
Four-Address
ON/OFF Face
(For use with
16400 base)



16450-4A
Three-Address
ON/OFF,
ALL ON/ALL OFF
Face
(For use with
16400 base)



16450-4D
Three-Address
ON/OFF, GROUP
DIM/BRIGHT Face
(For use with
16400 base)



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Receivers (Red Line)

6383-WI*

500W, Dimming Switch, 3-way capable (w/6294)



6293-WI*

15A/1800W Switch, 3-way capable (w/6294)



6291-WI*

15A/1800W Switch



6294-W

Multi-Remote Dimming Switch for 3-way control



6371-I*

20A/2000W, 2HP Double-Pole Switch



6376

300W Fixture Dimming Module



6375

15A Fixture Relay Module



6337

Universal Low-Voltage Module (contact output)



6280*

Duplex Receptacle, 15A/120V (Both outlets switched. Switched feed through)



6227*

Split Duplex Receptacle, 15A/120V (One outlet switched)



6296*

Single Receptacle, 20A/120V



6298*

Single Receptacle, 20A/250V



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Network Integrity Products

HCA02-10E*

Amplifier/Repeater Module, Single-phase, Scene signal capable



Note:
Required for all DHC Systems

PE100-10W

1920W Power Extender, Incandescent/Magnetic Low-Voltage



PE400-10W

1000W Power Extender, Electronic Low-Voltage

6386

Signal Strength Indicator



51110-PTC

Surge Protective Single-Phase Multimedia Panel (AC, phone, cable), 48kA/400V, 120/240V



51120-1

Surge Protective Panel, 50kA/500V, 120/240V Single-Phase



51120-PTC

Surge Protective Single-Phase Multimedia Panel (AC, phone, cable), 80kA/500V, 120/240V



6284

Multi-Phase Blocking Coupler



6287

5A Noise Block, line side, used in series with Line between Load and Switch



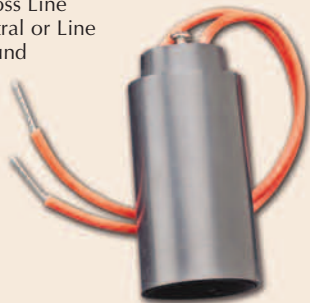
6288

5A Noise Block, plug-in Module



6289

Band Pass Filter, used across Line and Neutral or Line and Ground



6299

Signal Bridge, Passive System Coupler, 120/240VAC



6285

Signal Attenuator, 2-Phase. Used to reduce noise sources from outside the home.



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