HomeWorks® QS Architectural RF Hybrid seeTouch® Keypads

HomeWorks® QS RF Hybrid Keypads function as a dimmer and keypad combined into a single device. RF Hybrid Keypads are great for retrofit applications since they eliminate the need to install two separate devices.

HomeWorks® QS RF Hybrid Keypads have an available neutral wire terminal that allows them to be installed in either two-wire or neutral wire installations. Connecting the neutral wire to a Hybrid Keypad allows a lower minimum load to be used. Also, normal keypad operation will be available even if the lighting load is not installed or if the lamp is burned out. If a neutral wire is available in the wallbox it should be connected to the silver terminal on the Hybrid Keypad. If a neutral wire is not available and not desired, then the silver terminal should be tightened without any wires connected to it. RF Hybrid Keypads can be installed in either single location or multi-location (with Remote Dimmer) installations.

HomeWorks® QS RF Hybrid Keypads can be controlled as part of a lighting control system and incorporate advanced features such as fade on/fade off and rapid full on.

HomeWorks® QS RF Hybrid Keypads feature large, easy-to-use buttons, plus a unique backlit engraving option that makes them readable any time of the day or night. The Hybrid Keypad buttons are rounded, allowing engraving to be displayed at an upward angle, increasing readability. HomeWorks® QS RF Hybrid Keypads include a Front Accessible Service Switch (FASS™) for safe lamp replacement.

Use only Lutron® Nova T✩® wallplates. The mechanical design of the keypad is ONLY compatible with Lutron® wallplates and is NOT compatible with any other manufacturer's wallplate. Wallplates are sold separately. Lutron® Nova T✩® wallplates snap on with no visible means of attachment. Replacement Kits are available in a variety of colors and with custom engraving to clearly identify each button's function.

Hybrid Keypads

HQRA-H1RLD

HQRA-H2RLD

HQRA-H3BSRL

HQRA-H4S

HQRA-H5BRL

HQRA-H6BRL

Remote Dimmer

HQA-RD

HomeWorks® QS Architectural RF Hybrid seeTouch® Keypads

Model Numbers

HQRA-H1RLD-XX[1]	Dual Group with Raise/Lower Keypad and 450 W Neutral Optional Dimmer (Incandescent / Halogen / Magnetic Low-Voltage)
RKA-H1RLD-XX[1]	Replacement Kit[2]
HQRA-H2RLD-XX[1]	Dual Group with Dual Raise/Lower Keypad and 450 W Neutral Optional Dimmer (Incandescent / Halogen / Magnetic Low-Voltage)
RKA-H2RLD-XX[1]	Replacement Kit[2]
HQRA-H3BSRL-XX[1]	3 Button with Raise/Lower Keypad and 450 W Neutral Optional Dimmer (Incandescent / Halogen / Magnetic Low-Voltage)
RKA-H3BSRL-XX[1]	Replacement Kit[2]
HQRA-H4S-XX[1]	4 Scene with Raise/Lower Keypad and 450 W Neutral Optional Dimmer (Incandescent / Halogen / Magnetic Low-Voltage)
RKA-H4S-XX[1]	Replacement Kit[2]
HQRA-H5BRL-XX[1]	5 Button with Raise/Lower Keypad and 450 W Neutral Optional Dimmer (Incandescent / Halogen / Magnetic Low-Voltage)
RKA-H5BRL-XX[1]	Replacement Kit[2]
HQRA-H6BRL-XX[1]	6 Button with Raise/Lower Keypad and 450 W Neutral Optional Dimmer (Incandescent / Halogen / Magnetic Low-Voltage)
RKA-H6BRL-XX[1]	Replacement Kit[2]
HQA-RD-XX[1]	Remote Dimmer for multi-location installations

[1] "XX" in the model number represents color/finish code. See **Colors and Finishes** at end of document.
[2] To order an engraved Replacement Kit, add "-E" to the end of the model number.

Design Features

- Keypad buttons are programmable to select scene or room preset levels or positions.

- At the press of a keypad button, lights fade ON or OFF to desired levels and shades/draperies open or close to desired positions.

- Adjustable backlight intensity.

- Prepaid engraving included. Redeemable for one engraved Replacement Kit.

- Internal dimmer is assigned to top button by default, but can be reassigned to any button on the Hybrid Keypad. Tap top button to toggle load ON / OFF.

- Internal dimmer can be assigned to any programmable input.

- Can be installed in two-wire or neutral wire applications.

- Can be installed in either single location or multi-location (with Remote Dimmer) installations.
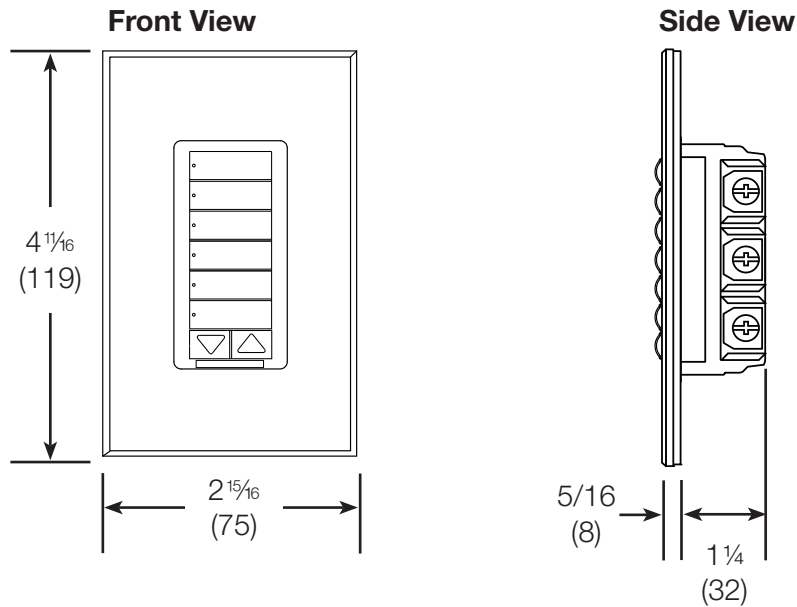
HomeWorks® QS Architectural RF Hybrid seeTouch® Keypads

Specifications

Model Numbers	**Keypads:** HQRA-H1RLD-XX, HQRA-H2RLD-XX, HQRA-H3BSRL-XX, HQRA-H4S-XX, HQRA-H5BRL-XX, HQRA-H6BRL-XX, **Replacement Kit:** RKA-H1RLD-XX, RKA-H2RLD-XX, RKA-H3BSRL-XX, RKA-H4S-XX, RKA-H5BRL-XX, RKA-H6BRL-XX **Remote Dimmer:** HQA-RD-XX
Power	120 V∿ 50/60 Hz
Typical Power Consumption	0.75 W Test conditions: load is off, all backlights on medium intensity, two status LEDs on (two presets active), keypad powered at 120 V∿.
Regulatory Approvals	UL, CSA, NOM, FCC, IC, COFETEL
Environment	Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing. Indoor use only.
Communications	Hybrid Keypads communicate with the HomeWorks® QS system through Radio Frequency (RF) and must be located within 30 ft (9 m) of a repeater. Remote dimmers are not required to be within a specific range of a repeater.
ESD Protection	Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.
Surge Protection	Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.
Power Failure	Power failure memory: should power be interrupted, the control will return to its previous state when power is restored.
Mounting	Requires a U.S. wallbox. 3½ in (89 mm) deep recommended, 2¼ in (57 mm) deep minimum. If mounting one control above another, leave at least 4½ in (114 mm) vertical space between them.
Wiring	Uses conventional 3-way and 4-way wiring.
Warranty	http://www.lutron.com/TechnicalDocumentLibrary/HomeWorks_Warranty.pdf

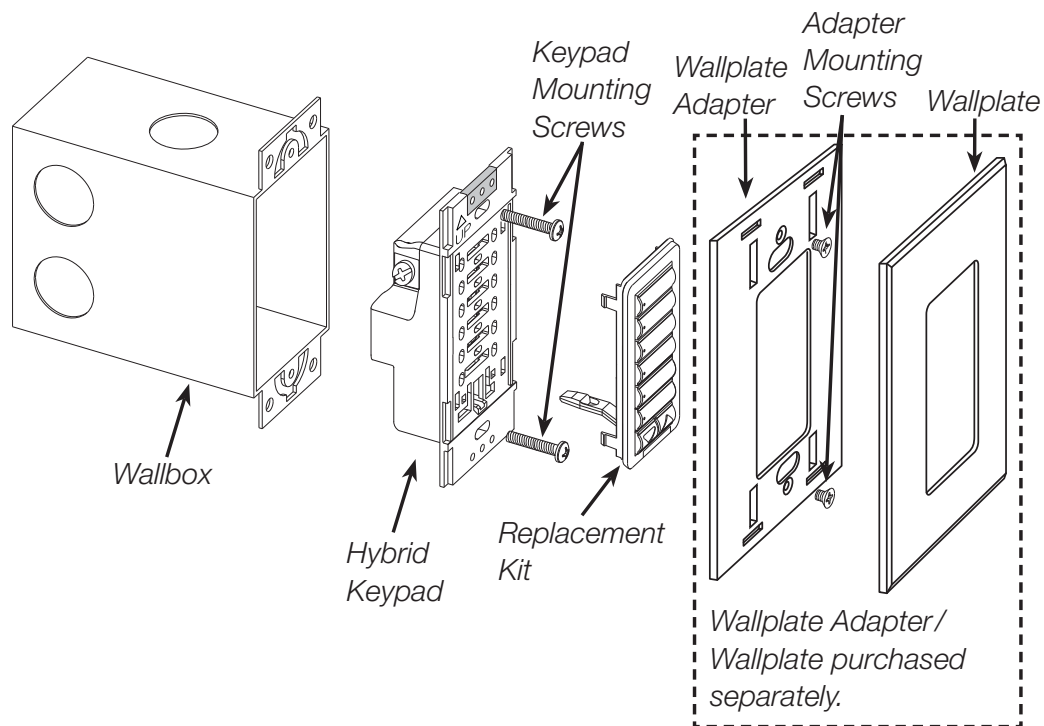## HomeWorks® QS Architectural RF Hybrid seeTouch® Keypads

Dimensions

All dimensions are shown as $\frac{in}{(mm)}$

Front View

Side View

$4\,^{11}\!/_{16}$
(119)

$2\,^{15}\!/_{16}$
(75)

5/16
(8)

$1\,^{1}\!/_{4}$
(32)

Mounting and Parts Identification

Keypad Mounting Screws

Adapter Mounting Screws

Wallplate Adapter

Wallplate

Wallbox

Hybrid Keypad

Replacement Kit

Wallplate Adapter / Wallplate purchased separately.

HomeWorks® QS Architectural RF Hybrid seeTouch® Keypads

Load Type and Capacity

Load Type	Minimum Load		Not Ganged	End of Gang	Middle of Gang
	With Neutral	Without Neutral			
Incandescent[1]	15 W	50 W	450 W	350 W	250 W
MLV[2]	15 W/VA	50 W/VA	350 W/450 VA	250 W/350 VA	200 W/250 VA

1 Load Type: RF Hybrid Keypads are designed for use with permanently installed incandescent, magnetic low-voltage, or tungsten halogen only. To reduce the risk of overheating and possible damage to other equipment, do not install RF Hybrid Keypads to control receptacles or motor-operated appliances.

2 Low-Voltage Applications: Use RF Hybrid Keypads with magnetic (core and coil) low-voltage transformers only. Not for use with electronic (solid-state) low-voltage transformers. Operation of a low-voltage circuit with lamps inoperative or removed may result in transformer overheating and premature failure. Lutron strongly recommends the following:
- Do not operate low-voltage circuits without operative lamps in place.
- Replace burned-out lamps as quickly as possible.
- Use transformers that incorporate thermal protection or fused transformer primary windings to prevent transformer failure due to overcurrent.

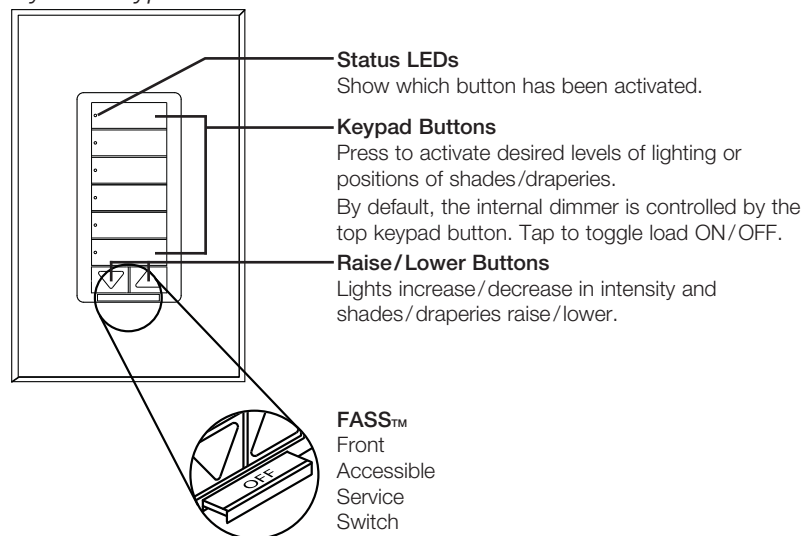## Compatible Power Boosters and Load Interfaces

Some local controls can be used to control power boosters or load interfaces. Up to three power boosters or load interfaces can be used with one control. See table below for a list of compatible power boosters and load interfaces.

Control	Phase Adaptive Power Modules (PHPM-PA-120-WH & PHPM-PA-DV-WH)	3-wire Fluorescent Power Modules (PHPM-3F-120-WH & PHPM-3F-DV-WH)	Switched Power Module (PHPM-SW-DV-WH)	0-10 V Interface and Switching Module (GRX-TVI)
HQRA-H1RLD HQRA-H2RLD HQRA-H3BSRL HQRA-H4S HQRA-H5BRL HQRA-H6BRL	✓	✓	✓	✓

HomeWorks® QS Architectural RF Hybrid seeTouch® Keypads

Operation

Hybrid Keypad

Status LEDs
Show which button has been activated.

Keypad Buttons
Press to activate desired levels of lighting or positions of shades/draperies.
By default, the internal dimmer is controlled by the top keypad button. Tap to toggle load ON/OFF.

Raise/Lower Buttons
Lights increase/decrease in intensity and shades/draperies raise/lower.

FASS™
Front Accessible Service Switch

Remote Dimmer

Tapswitch
Tap on/off

Dimming Rocker
Press to brighten
Press to dim

FASS™
Front Accessible Service Switch

IMPORTANT NOTICE:

FASS™ **– Front Accessible Service Switch**

To replace bulbs, remove power by pulling the FASS™ out fully on all controlling devices. After replacing bulbs, push every FASS™ back in fully to restore power to the controls.
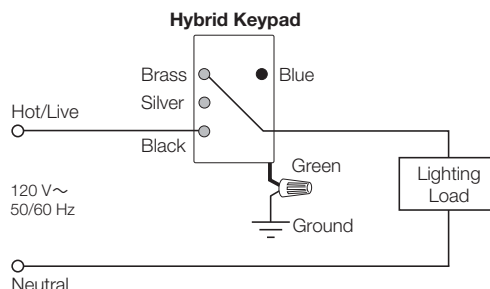
HomeWorks® QS Architectural RF Hybrid seeTouch® Keypads
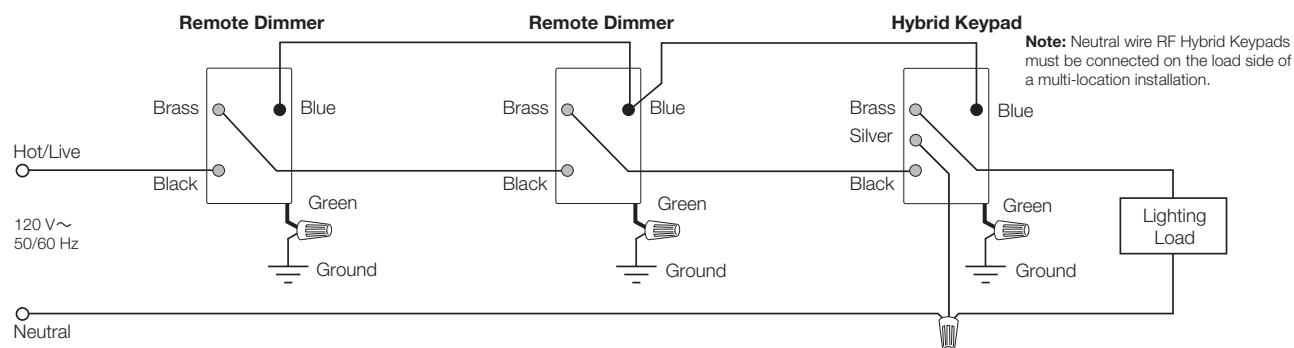
Wiring Diagrams
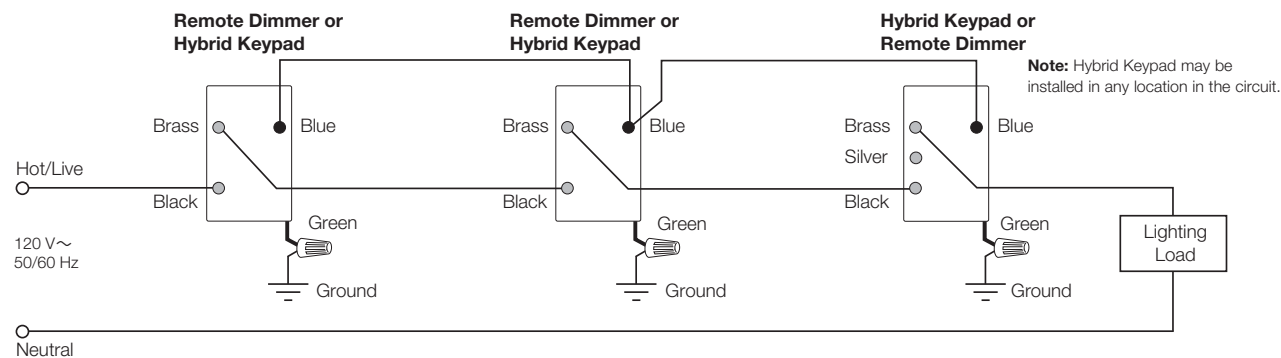
Single Location Installation with Neutral [1]
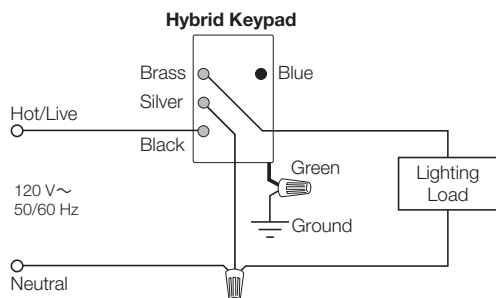
Single Location Installation without Neutral [1, 2]

Multi-Location Installation with Neutral [3, 4]

Note: Neutral wire RF Hybrid Keypads must be connected on the load side of a multi-location installation.

Multi-Location Installation without Neutral [2, 3]

Note: Hybrid Keypad may be installed in any location in the circuit.

[1] When using controls in single location installations, tighten the blue terminal without any wires attached. DO NOT connect the blue terminal to any other wiring or to ground.

[2] In installations without a neutral wire connection, tighten the silver terminal without any wires attached. DO NOT connect the silver terminal to any other wiring or to ground.

[3] Up to 9 Remote Dimmers may be connected to the Hybrid Keypad. Total blue terminal wire length may be up to 250 ft (76 m).

[4] Neutral wire RF Hybrid Keypads must be connected on the load side of a multi-location installation.

HomeWorks® QS Architectural RF Hybrid seeTouch® Keypads
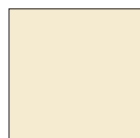
Colors and Finishes

Architectural Matte Finishes
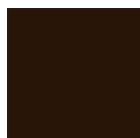
White
WH

Ivory
IV

Almond
AL

Light
Almond
LA

Gray
GR

Brown
BR

Black
BL

Taupe
TP

Sienna
SI

Beige
BE

Architectural Metal Finishes (wallplates only)
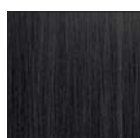
Satin Brass
SB

Bright Brass
BB

Bright Chrome
BC

Clear Anodized
Aluminum
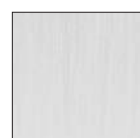CLA

Black Anodized
Aluminum
BLA

Brass Anodized
Aluminum
BRA

Antique Brass
QB

Antique Bronze
QZ

Satin Chrome
SC

Satin Nickel
SN

Bright Nickel
BN

Gold
AU

When ordering metal wallplates, it is recommended to order the keypad in Black (BL).

- Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.
- Color chip keychains are available for more precise color matching:

  Architectural Matte Finishes- AM-CK-1

  Architectural Metal Finishes - AMTL-CK-1