HomeWorks QS RF Maestro_® Local Controls

HomeWorks QS RF Maestro local controls function much like standard dimmers and switches, but can be controlled as part of a lighting control system. Local lighting controls are useful in locations where single circuits of lighting need to be dimmed or switched.

HomeWorks QS RF Maestro dimmers incorporate advanced features such as fade on/fade off, delayed long fade to off, and rapid full on.

HomeWorks QS RF Maestro local controls include a Front Accessible Service Switch (FASS_{TM}) for safe lamp replacement. HomeWorks QS RF Maestro local controls install in single-pole or multi-location applications. Remote dimmers/switches are available for multi-location control.

Use Lutron® Designer (Claro® or Satin Colors®) wallplates or designer-style wallplates from other manufacturers. Wallplates are sold separately. Lutron Claro and Satin Colors wallplates snap on with no visible means of attachment. HomeWorks QS RF Maestro local controls support color change kits.



369-305a



Dimmer Remote Dimmer





witch Remote Switch

Model Numbers

Dimmers	
HQRD-6D-XX*	600 W Two-Wire Dimmer
HQRD-6ND-XX*	600 W Neutral Wire
	Dimmer
HQRD-10D-XX*	1000 W Two-Wire Dimmer
HQRD-10ND-XX*	1000 W Neutral Wire
	Dimmer
HQRD-6NA-XX*	600 W Neutral Phase
	Adaptive Dimmer
HQRD-6NE-XX*	600 W/600 VA Neutral
	Wire Dimmer (ELV 120 V~)
HQRD-F6AN-DV-XX*	6 A Fluorescent/LED
	3-Wire Dimmer
Switches	
HQRD-8ANS-XX*	Neutral Wire Electronic
	Switch
HQRD-8S-DV-XX*	Two-Wire Electronic

Switch

Remotes (for multi-location installations)

HQD-RD-XX*	Remote Dimmer (120 V~)
HQD-RS-XX*	Remote Switch (120 V∼)
HQD-RD-277-XX*	Remote Dimmer (277 V~)
	(use only with -F6AN-DV)
HQD-RS-277-XX*	Remote Switch (277 V∼)
	(use only with -8S-DV)

Color Change Kits

Gold. Gridingo Mito		
RK-D-XX*	Dimmers (-6D, -10D,	
	-10ND, -6NA, -6NE,	
	and -F6AN-DV)	
RK-S-XX*	Switches (-8ANS and	
	-8S-DV)	
RK-AD-XX*	Remote Dimmer (-RD)	
RK-AS-XX*	Remote Switch (-RS)	

^{*&}quot;XX" in the model number represents color/finish code. See **Colors and Finishes** at end of document.



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Specifications

Model Numbers	Dimmer: HQRD-6D-XX, HQRD-6ND-XX, HQRD-10D-XX, HQRD-10ND-XX, HQRD-6NA-XX, HQRD-F6AN-DV-XX, HQRD-6NE-XX Switch:HQRD-8ANS-XX, HQRD-8S-DV-XX Remote: HQD-RD-XX, HQD-RS-XX, HQD-RD-277-XX, HQD-RS-277-XX Color Change Kits: RK-D-XX, RK-S-XX, RK-AD-XX, RK-AS-XX
Power	120 V~ 50/60 Hz (-6D, -10D, -10ND, -6NA, 6NE, -8ANS, -RD, -RS) 120-277 V~ 50/60 Hz (-F6AN-DV, -8S-DV)
Typical Power Consumption	Dimmer/Switch: 0.2 W Test conditions: load is off and nightlight mode is enabled. Remote Dimmer/Switch: 0 W Test conditions: load is off.
Regulatory Approvals	UL, CSA (all except -6NA and -6NE), cUL (-6NA and -6NE only), 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	Dimmers and switches communicate with the <i>HomeWorks</i> system through Radio Frequency (RF) and must be located within 30 ft (9 m) of a repeater. Remote dimmers/switches 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.
Wiring	Uses conventional 3-way and 4-way wiring.
Warranty	8 Year Limited Warranty. http://www.lutron.com/resiinfo

Design Features

Dimmer

- On a single-tap, lights fade ON or OFF.
- On a double-tap, lights go to full ON.
- When ON, press and hold the tapswitch to engage the delayed long fade to OFF.
- Light levels can be fine-tuned by pressing and holding the dimming rocker until the desired light level is reached.
- Neutral and two-wire dimmers available.

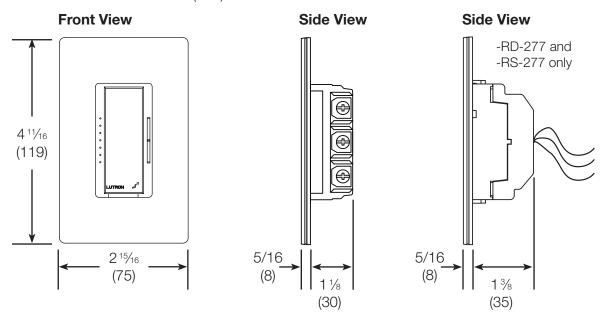
Switch

- On a single-tap, lights or motors turn ON or OFF.
- · Neutral and two-wire switches available.

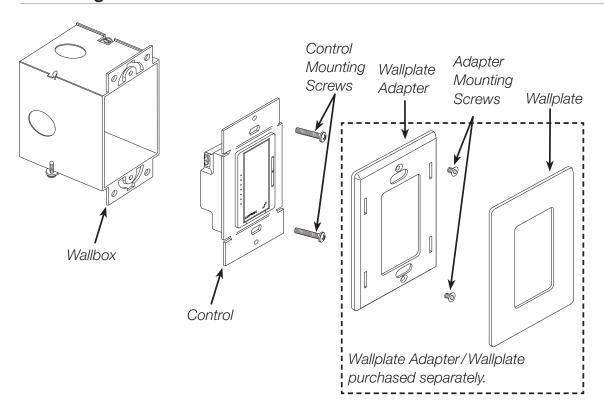
HomeWorks QS RF Maestro_® Local Controls

Dimensions

All dimensions are shown as in (mm)



Mounting and Parts Identification



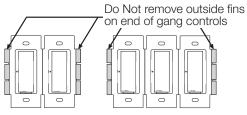
www.lutron.com Lutron® 3

HomeWorks QS RF Maestro_® Local Controls

Ganging and Derating

When combining controls in the same wallbox, derating is required. See **Load Type and Capacity**. No derating is required for remote dimmers/switches. -8ANS, -RD-277, and -RS-277 have fins that need to be removed for multigang installations.

-8ANS, -RD-277, and -RS-277 only:



Each control has

Middle of gang control inside fins removed has all fins removed

Load Type and Capacity

Control	Load Type	Minimum Load	Not Ganged	End of Gang	Middle of Gang	Neutral Connection
HQRD-6D ¹	Incand.	50 W	600 W	500 W	400 W	
	MLV ²	50 W/VA	450 W/ 600 VA	400 W / 500 VA	300 W / 400 VA	NO
HQRD-6ND ^{1, 4}	Incand.	10 W	600 W	500 W	400 W	YES
	MLV ²	10 W/VA	450 W / 600 VA	400 W / 500 VA	300 W / 400 VA	
	Incand.	50 W	1000 W	800 W	650 W	
HQRD-10D ¹	MLV ²	50 W/VA	800 W/ 1000 VA	600 W / 800 VA	500 W / 650 VA	NO
	Incand.	10 W	1000 W	800 W	650 W	YES
HQRD-10ND ^{1, 4}	MLV ²	10 W/VA	800 W / 1000 VA	600 W / 800 VA	500 W / 650 VA	
	Incand./ELV	5 W	600 W	500 W	400 W	YES
HQRD-6NA ^{1, 4}	MLV ²	5 W/VA	450 W/ 600 VA	400 W / 500 VA	300 W / 400 VA	
HQRD-6NE ^{1, 4}	ELV	5 W	600 W	500 W	400 W	YES
HQRD-F6AN-DV ^{3,}	Fluorescent/ LED	0.05 A	6 A	5 A	3.5 A	YES
4, 5		1 ballast	60 ballasts	50 ballasts	35 ballasts	
HQRD-8ANS ^{4, 6}	Lighting	10 W	8 A	6.5 A	5 A	
	Motor	0.08 A	1/4 HP 5.8 A	1/4 HP 5.8 A	1/6 HP 4.4 A	YES
HQRD-8S-DV ^{6, 7}	Lighting	40 W/VA	8 A	8 A (2- gang) 7 A (3-gang)	7 A	NO
	Motor	0.4 A	1/10 HP 3 A			

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Load Type and Capacity (continued)

- 1 Dimmer Load Type: -6D, -6ND,-10D, and -10ND are designed for use with permanently installed incandescent, magnetic low-voltage, or tungsten halogen only. -6NA is designed for use with permanently installed incandescent, electronic low-voltage, magnetic low-voltage, or tungsten halogen only. Do not install dimmers to control receptacles or motor-operated appliances.
- 2 Low-Voltage Applications: Use -6D, -6ND, -10D and -10ND with magnetic (core and coil) low-voltage transformers only. Not for use with electronic (solid-state) low-voltage transformers. Use -6NA with electronic (solid-state) or magnetic (core and coil) 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 soon as possible.
- Use transformers that incorporate thermal protection or fused transformer primary windings to prevent transformer failure due to overcurrent.
- 3 Fluorescent Dimmer Load Type: -F6AN-DV is designed for use with permanently installed 3-wire 120 V or 277 V line voltage control fluorescent ballasts or LED drivers. Use only with Hi-lume_®, Hi-lume_® 3D, Compact SE_M, Eco-10_®, or Ecosystem_® (H3D-, FDB-, ECO-, HL3-, EC5-, L3D). Do NOT use with any other ballasts or drivers. Do not install to control receptacles or motor-operated appliances.
- 4 Power Boosters/Load Interfaces: -6ND, -10ND, -6NA, -6NE, -F6AN-DV, and -8ANS can be used to control power boosters/load interfaces. For a list of compatible power boosters/load interfaces see **Compatible Power Boosters and Load Interfaces** below.
- ⁵ Maximum Load: The maximum load for the -F6AN-DV is either the derated load or the number of ballasts, whichever is LESS.
- 6 Switch Load Type: -8ANS and -8S-DV are designed for use with permanently installed 120 V → incandescent, magnetic low-voltage, electronic low-voltage, tungsten halogen, fluorescent, or motor loads. -8S-DV can also be used with permanently installed 277 V → magnetic low-voltage or fluorescent loads.
- 7 Shunt Capacitor: Some -8S-DV installations may require the use of a shunt capacitor. This is especially necessary for load types sensitive to leakage current (i.e. fluorescent ballasts). If load flickers, install a shunt capacitor. Optional shunt capacitor must be installed inside the load fixture or in a separate J-box. For shunt capacitor installation see **Wiring Diagram 4, 9**, or **10**.

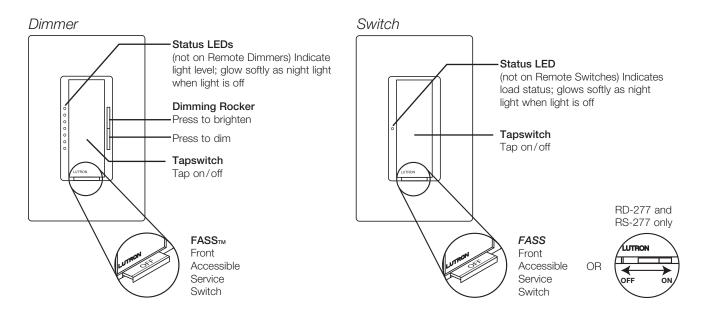
Compatible Power Boosters and Load Interfaces

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 controls and 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)
HQRD-6ND	✓	✓		✓
HQRD-10ND	✓	✓		✓
HQRD-6NA	✓	✓		✓
HQRD-6NE	✓	✓		✓
HQRD-F6AN-DV	✓	✓		✓
HQRD-8ANS			✓	

HomeWorks QS RF Maestro_® Local Controls

Operation



IMPORTANT NOTICE:

FASS - Front Accessible Service Switch

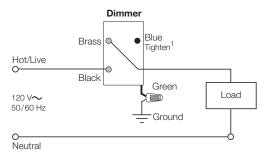
To replace bulb, remove power by pulling the FASS switch out fully on all controlling devices. After replacing bulb(s), push the FASS switch(es) back in fully to restore power to the control(s).

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Wiring Diagrams

Wiring Diagram 1

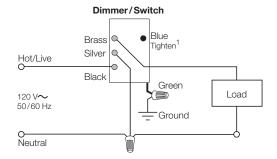
Single Location Installation without Neutral ¹-6D and -10D



Wiring Diagram 2

Single Location Installation with Neutral -6ND, -10ND, -6NA, 6NE, and -8ANS

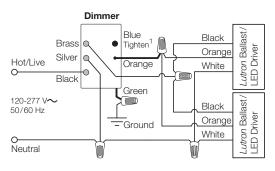
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Wiring Diagram 3

Single Location Fluorescent Dimmer Installation

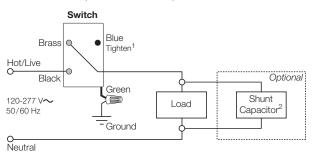
-F6AN-DV with Lutron® Ballast/LED Driver



Wiring Diagram 4

Single Location 2-wire Switch Installation

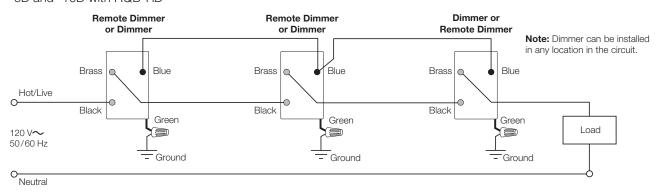
-8S-DV with optional shunt capacitor²



Wiring Diagram 5

Multi-Location Installation without Neutral³

-6D and -10D with HQD-RD



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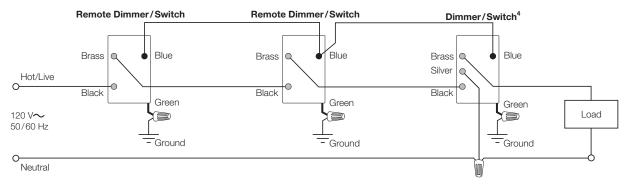
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Wiring Diagrams (continued)

Wiring Diagram 6

Multi-Location Installation with Neutral^{3, 4}

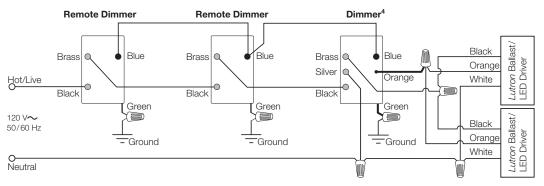
-6ND, -10ND, -6NA, and -6NE with HQD-RD; -8ANS with HQD-RS



Wiring Diagram 7

Multi-Location Fluorescent Dimmer Installation^{3, 4} (120 V∼)

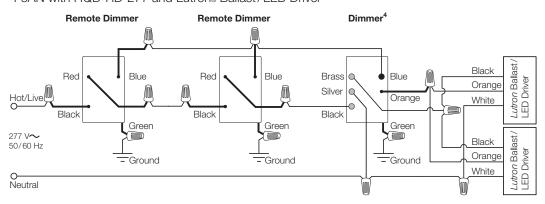
-F6AN with HQD-RD and Lutron® Ballast/LED Driver



Wiring Diagram 8

Multi-Location Fluorescent Dimmer Installation^{3,4} (277 V∼)

-F6AN with HQD-RD-277 and Lutron® Ballast/LED Driver



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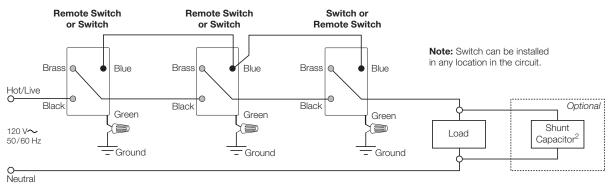
HomeWorks QS RF Maestro_® Local Controls

Wiring Diagrams (continued)

Wiring Diagram 9

Multi-Location 2-wire Switch Installation³ (120 V∼)

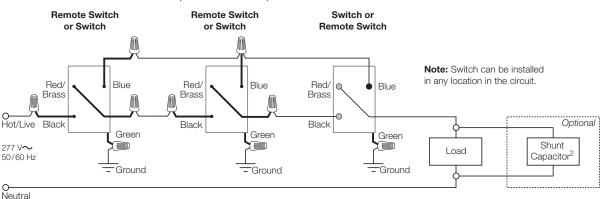
-8S-DV with HQD-RS and optional shunt capacitor



Wiring Diagram 10

Multi-Location 2-wire Switch Installation³ (277 V∼)

-8S-DV with HQD-RS-277 and optional shunt capacitor



- 1 When using controls in single location installations, tighten the blue terminal. **Do not** connect the blue terminal to any other wiring or to ground.
- 2 3 Optional shunt capacitor must be installed inside the load fixture or in a separate J-box.
- 3 Up to 9 Remote Dimmers/Switches may be connected to the Dimmer/Switch. Total blue terminal wire length may be up to 250 ft (76 m).
- 4 Neutral wire Dimmers/Switches must be connected on the Load side of a multi-location installation.

NOTE: Bolded lines in diagrams indicate leads on products.



HomeWorks QS RF Maestro_® Local Controls

Colors and Finishes

Ivory

Light

LA

Almond

Brown

BR

IV

Gloss Finishes





WH



Almond ΑL



Gray GR



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: Gloss Finishes - DG-CK-1

Satin Finishes - SC-CK-1

Satin Finishes



Hot HT



Merlot MR





Plum PL

369-305a



Turquoise TQ



Taupe TP



Eggshell



Biscuit BI



Snow SW



Palladium PD



Midnight MN



Sienna SI



Terracotta TC



Greenbriar GB



Bluestone BG



Mocha Stone MS



Goldstone



Desert Stone DS



Stone ST



Limestone

Metal Finish (wallplate only)



Stainless Steel SS

When using Stainless Steel wallplates, it is recommended to order the keypad in Midnight (MN).