## 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 (FASSтм) 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.


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

| RK-D-XX* | Dimmers (-6D, -10D, <br>  <br>  <br>  <br> -10ND, -6NA, -6NE, <br> and -F6AN-DV) |
| :--- | :--- |
| RK-S-XX* | Switches (-8ANS and <br>  <br> RK-AD-XX <br> RK-AS-XX |

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## HomeWorks QS RF Maestro。 Local Controls

## Specifications

| Model Numbers | Dimmer: HQRD-6D-XX, HQRD-6ND-XX, HQRD-10D-XX, HQRD-10ND-XX, <br> HQRD-6NA-XX, HQRD-F6AN-DV-XX, HQRD-6NE-XX <br> Switch:HQRD-8ANS-XX, HQRD-8S-DV-XX <br> Remote: HQD-RD-XX, HQD-RS-XX, HQD-RD-277-XX, HQD-RS-277-XX <br> Color Change Kits: RK-D-XX, RK-S-XX, RK-AD-XX, RK-AS-XX |
| :---: | :---: |
| Power | $\begin{aligned} & 120 \mathrm{~V} \sim 50 / 60 \mathrm{~Hz} \text { (-6D, -10D, -10ND, -6NA, 6NE, -8ANS, -RD, -RS) } \\ & 120-277 \mathrm{~V} \sim 50 / 60 \mathrm{~Hz} \text { (-F6AN-DV, -8S-DV) } \\ & \hline \end{aligned}$ |
| Typical Power Consumption | Dimmer/Switch: 0.2 W <br> 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: $32^{\circ} \mathrm{F}$ to $104^{\circ} \mathrm{F}\left(0^{\circ} \mathrm{C}\right.$ to $\left.40^{\circ} \mathrm{C}\right)$, $0 \%$ to $90 \%$ humidity, non-condensing. Indoor use only. |
| Communications | Dimmers and switches communicate with the HomeWorks system through Radio Frequency (RF) and must be located within $30 \mathrm{ft}(9 \mathrm{~m})$ 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. $3^{1 ⁄ 2}$ in ( 89 mm ) deep recommended, $2^{1 / 1 / 4}$ 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 $\underset{(\mathrm{mm})}{\mathrm{in}}$


## Mounting and Parts Identification



## 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 | NO |
|  | MLV ${ }^{2}$ | 50 W/VA | $\begin{aligned} & \hline 450 \mathrm{~W} / \\ & 600 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 400 \mathrm{~W} / \\ & 500 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 300 \mathrm{~W} / \\ & 400 \mathrm{VA} \end{aligned}$ |  |
| HQRD-6ND ${ }^{1,4}$ | Incand. | 10 W | 600 W | 500 W | 400 W | YES |
|  | MLV ${ }^{2}$ | 10 W/VA | $\begin{aligned} & 450 \mathrm{~W} / \\ & 600 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 400 \mathrm{~W} / \\ & 500 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 300 \mathrm{~W} / \\ & 400 \mathrm{VA} \end{aligned}$ |  |
| HQRD-10D ${ }^{1}$ | Incand. | 50 W | 1000 W | 800 W | 650 W | NO |
|  | MLV ${ }^{2}$ | 50 W/VA | $\begin{aligned} & 800 \mathrm{~W} / \\ & 1000 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 600 \mathrm{~W} / \\ & 800 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 500 \mathrm{~W} / \\ & 650 \mathrm{VA} \end{aligned}$ |  |
| HQRD-10ND ${ }^{1,4}$ | Incand. | 10 W | 1000 W | 800 W | 650 W | YES |
|  | MLV ${ }^{2}$ | 10 W/VA | $\begin{aligned} & \hline 800 \mathrm{~W} / \\ & 1000 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 600 \mathrm{~W} / \\ & 800 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & 500 \mathrm{~W} / \\ & 650 \mathrm{VA} \end{aligned}$ |  |
| HQRD-6NA ${ }^{1,4}$ | Incand./ELV | 5 W | 600 W | 500 W | 400 W | YES |
|  | MLV ${ }^{2}$ | 5 W/VA | $\begin{aligned} & \hline 450 \mathrm{~W} / \\ & 600 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 400 \mathrm{~W} / \\ & 500 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & 300 \mathrm{~W} / \\ & 400 \mathrm{VA} \end{aligned}$ |  |
| HQRD-6NE ${ }^{1,4}$ | ELV | 5 W | 600 W | 500 W | 400 W | YES |
| $\underset{4,5}{\operatorname{HQRD}-F 6 A N-D V}{ }^{3}$, | Fluorescent/LED | 0.05 A | 6 A | 5 A | 3.5 A | YES |
|  |  | 1 ballast | 60 ballasts | 50 ballasts | $\begin{aligned} & \hline 35 \\ & \text { ballasts } \end{aligned}$ |  |
| HQRD-8ANS ${ }^{4,6}$ | Lighting | 10 W | 8 A | 6.5 A | 5 A | YES |
|  | Motor | 0.08 A | $\begin{aligned} & 1 / 4 \mathrm{HP} \\ & 5.8 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \hline 1 / 4 \mathrm{HP} \\ & 5.8 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & 1 / 6 \mathrm{HP} \\ & 4.4 \mathrm{~A} \end{aligned}$ |  |
| HQRD-8S-DV ${ }^{6,7}$ | Lighting | 40 W/VA | 8 A | $\begin{array}{\|l\|} \hline 8 \text { A (2- } \\ \text { gang) } 7 \text { A } \\ \text { (3-gang) } \end{array}$ | 7 A | NO |
|  | Motor | 0.4 A | 1/10 HP | 3 A |  |  |

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## HomeWorks QS RF Maestro Local Controls

## 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.
$\mathbf{2}$ 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.
 fluorescent ballasts or LED drivers. Use only with Hi-lume®, Hi-lume® 3D, Compact SEтм, 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.
$\mathbf{5}_{\text {Maximum Load: The maximum load for the -F6AN-DV is either the derated load or the number of ballasts, whichever is LESS. }}$
$\mathbf{6}$ Switch Load Type: -8ANS and -8S-DV are designed for use with permanently installed $120 \mathrm{~V} \sim$ incandescent, magnetic low-voltage, electronic low-voltage, tungsten halogen, fluorescent, or motor loads. -8S-DV can also be used with permanently installed $277 \mathrm{~V} \sim$ 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 <br> Power Modules <br> (PHPM-PA-120-WH <br> \&PHPM-PA-DV-WH) | 3-wire Fluorescent <br> Power Modules <br> (PHPM-3F-120-WH <br> \&PHPM-3F-DV-WH) | Switched Power <br> Module <br> (PHPM-SW-DV-WH) | 0-10 V <br> Interface and <br> Switching <br> Module <br> (GRX-TVI) |
| :--- | :--- | :---: | :--- | :---: |
| HQRD-6ND | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| HQRD-10ND | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| HQRD-6NA | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| HQRD-6NE | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| HQRD-F6AN-DV | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| HQRD-8ANS |  |  | $\checkmark$ |  |

product specifications

## HomeWorks QS RF Maestro Local Controls

## Operation

## Dimmer



Switch


## 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).

## HomeWorks QS RF Maestro Local Controls

## Wiring Diagrams

## Wiring Diagram 1

Single Location Installation without Neutral ${ }^{1}$ -6D and -10D


## Wiring Diagram 3

Single Location Fluorescent Dimmer Installation -F6AN-DV with Lutron® Ballast/LED Driver


## Wiring Diagram 2

Single Location Installation with Neutral ${ }^{1}$ -6ND, -10ND, -6NA, 6NE, and -8ANS


## Wiring Diagram 4

Single Location 2-wire Switch Installation ${ }^{1}$ -8S-DV with optional shunt capacitor ${ }^{2}$


## Wiring Diagram 5

Multi-Location Installation without Neutral ${ }^{3}$
-6D and -10D with HQD-RD


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## HomeWorks QS RF Maestro Local Controls

## 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 Installation ${ }^{3}$ (120 V~)
-8S-DV with HQD-RS and optional shunt capacitor


## Wiring Diagram 10

Multi-Location 2-wire Switch Installation ${ }^{3}$ (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.
23 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 $250 \mathrm{ft}(76 \mathrm{~m})$.
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

Gloss Finishes


White
WH


Almond
AL


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:
Gloss Finishes - DG-CK-1 Satin Finishes - SC-CK-1



## Satin Finishes



Turquoise TQ


Eggshell ES


Snow SW


Palladium PD


Greenbriar
GB

## Desert Stone

DS


Bluestone
BG


PL

Biscuit Bl


Sienna SI


Mocha Stone MS


Terracotta TC


Goldstone GS

## Metal Finish (wallplate only)



[^1]When using Stainless Steel wallplates, it is recommended to order the keypad in Midnight (MN).


[^0]:    *" XX " in the model number represents color/finish code. See Colors and Finishes at end of document.

[^1]:    Stainless
    Steel SS

