## Maestro Wireless Local Controls

Maestro Wireless controls function much like standard dimmers and switches, but can be controlled from Рісотм wireless controls and Lutron® ceiling mount occupancy/vacancy sensors. Local lighting controls are useful in locations where single circuits of lighting need to be dimmed or switched.
Maestro Wireless dimmers incorporate advanced features such as fade on/fade off, long fade off, and rapid full on.
Maestro Wireless local controls include a Front Accessible Service Switch (FASStm) for safe lamp replacement. Maestro Wireless controls install in single-pole or multi-location applications.

## Model Numbers

## Dimmers

Halogen/Incandescent/Magnetic Low-voltage MRF2-600M-XX 600 W Incandescent Dimmer 120 V~
MRF2-6MLV-XX 600 W/600 VA Incandescent/ MLV Dimmer 120 V~
MRF2-6ND-120-XX* 600 W/600 VA Spec Grade Neutral wire Dimmer 120 V~
MRF2-10D-120-XX 1000 W/1000 VA Spec Grade Dimmer 120 V~
3-wire Fluorescent-Available April 2010 MRF2-F6AN-DV-XX* 6 A 3-wire Fluorescent Spec Grade Neutral wire Dimmer 120-277 V~
Switches
Lighting and motor loads

| MRF2-6ANS-XX* | 6 A Lighting/3 A Fan (1/10 HP <br> motor), Electronic Switch <br> $120 \mathrm{~V} \sim$ |
| :--- | :--- |

MRF2-8ANS-120-XX* 8 A Lighting, 5.8 A Fan (1/4 HP motor), Spec Grade Electronic Switch 120 V~
MRF2-6ANS-277-XX* 6 A Lighting, Spec Grade Electronic Switch 277 V~
MRF2-8S-DV-XX 8 A Lighting, 3 A Fan (1/10 HP motor, 120 V ~ only), Spec Grade Electronic Switch 120-277 V~, NO NEUTRAL WIRE REQUIRED

Dimmer


Switch


Companion Dimmer
$\square$

Companion Switch


## Companion Controls

Claro® Gloss Finishes
MA-R-XX
MA-AS-XX
MA-R-277-XX
MA-AS-277-XX
Companion Dimmer 120 V~ Companion Switch 120 V~ Companion Dimmer 277 V~ Companion Switch 277 V~

## Satin Colors® Satin Finishes

MSC-AD-XX
MSC-AS-XX
MSC-AD-277-XX
MSC-AS-277-XX

Companion Dimmer 120 V~ Companion Switch 120 V~ Companion Dimmer 277 V~ Companion Switch 277 V~
" $X X$ " in the model number represents color/finish code.
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| Job Name: | Model Numbers: |
| :--- | :--- |
| Job Number: |  |

## Colors and Finishes

## Gloss Finishes <br> Satin Finishes



AL


Black
BL

Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.

Light
Almond
LA

##  <br> Gray <br> GR <br> R




Hot
HT


Merlot
MR


Plum
PL


Eggshell
ES


Midnight
MN


Snow
SW



Goldstone GS

Metal Finish (wallplate only)


Stainless
Steel SS

When using Stainless Steel wallplates, it is recommended to order the controls in Black (BL) or Midnight (MN).

## Load Type and Capacity

| Control | Voltage | Load Type | Minimum Load | Maximum Load |  |  | Neutral Connection |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Not Ganged | End of Gang | Middle of Gang |  |
| MRF2-6ND-120, ${ }^{1,2,7}$ | 120 V ~ | Incand. | 25 W | 600 W | 500 W | 400 W | YES |
|  |  | MLV ${ }^{2}$ | 25 W/VA | $\begin{aligned} & \hline 450 \mathrm{~W} / \\ & 600 \mathrm{VA} \end{aligned}$ | $\begin{array}{\|l\|} \hline 400 \mathrm{~W} / \\ 500 \mathrm{VA} \end{array}$ | $\begin{aligned} & 300 \mathrm{~W} / \\ & 400 \mathrm{VA} \end{aligned}$ |  |
| MRF2-600M ${ }^{1,7}$ | $120 \mathrm{~V} \sim$ | Incand. | 50 W | 600 W | 500 W | 400 W | NO |
| MRF2-6MLV ${ }^{1,2,7}$ | 120 V ~ | MLV ${ }^{2}$ | 50 VA | $\begin{aligned} & \hline 450 \mathrm{~W} / \\ & 600 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 400 \mathrm{~W} / \\ & 500 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 300 \mathrm{~W} / \\ & 400 \mathrm{VA} \end{aligned}$ | NO |
| MRF2-10D-120 ${ }^{1,2,7}$ | 120 V ~ | Incand. | 50 W | 1000 W | 800 W | 650 W | NO |
|  |  | MLV ${ }^{2}$ | 50 W/VA | $\begin{aligned} & \hline 800 \mathrm{~W} / \\ & 1000 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 600 \mathrm{~W} / \\ & 800 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & \hline 500 \mathrm{~W} / \\ & 650 \mathrm{VA} \end{aligned}$ |  |
| MRF2-F6AN-DV ${ }^{6,9}$ | 120-277 V~ | Lighting | $\begin{array}{\|l\|l\|} \hline 1 \text { ballast } \\ 0.05 \mathrm{~A} \end{array}$ | 6 A | 5 A | 3 A | YES |
| MRF2-8ANS-1203,5 | $120 \mathrm{~V} \sim$ | Lighting | 25 W | 8 A | 6.5 A | 5 A | YES |
|  |  | Fan Motor | 0.2 A | $\begin{aligned} & 1 / 4 \mathrm{HP} \\ & 5.8 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & 1 / 4 \mathrm{HP} \\ & 5.8 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & 1 / 6 \mathrm{HP} \\ & 4.4 \mathrm{~A} \end{aligned}$ |  |
| MRF2-6ANS ${ }^{3}$ | 120 V ~ | Lighting | 25 W | 6 A | 5 A | 3.5 A | YES |
|  |  | Fan Motor | 0.2 A | $\begin{aligned} & 1 / 10 \mathrm{HP} \\ & 3 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & 1 / 10 \mathrm{HP} \\ & 3 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & 1 / 10 \mathrm{HP} \\ & 3 \mathrm{~A} \end{aligned}$ |  |
| MRF2-6ANS-277 ${ }^{4}$ | 277 V~ | Lighting | 25 W | 6 A | 5 A | 3.5 A | YES |
| MRF2-8S-DV ${ }^{4}$ | 120-277 V~ | Lighting | 40 W | 8 A | $8 \mathrm{~A} / 7 \mathrm{~A}^{8}$ | 7 A | NO |
|  | 120 V ~ | Fan Motor | 0.4 A | $\begin{array}{\|l\|} \hline 1 / 10 \mathrm{HP} \\ 3 \mathrm{~A} \\ \hline \end{array}$ | $\begin{aligned} & 1 / 10 \mathrm{HP} \\ & 3 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & 1 / 10 \mathrm{HP} \\ & 3 \mathrm{~A} \end{aligned}$ |  |

1 Dimmer Load Type: -6ND, -6MLV and -10D are designed for use with permanently installed incandescent, magnetic low-voltage, or tungsten halogen only. -600M is designed for use with permanently installed incandescent or tungsten halogen only. Do not install dimmers to control receptacles or motor-operated appliances.
$\mathbf{2}$ Low-Voltage Applications: Use -6ND, -6MLV and -10D 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.

3 Switch Load Type: -8ANS-120 is designed for use with permanently installed lighting loads and with fan motor loads up to $1 / 4 \mathrm{HP}(5.8 \mathrm{~A})$. -6 ANS is designed for use with permanently installed lighting loads and with fan motor loads up to $1 / 10 \mathrm{HP}(3 \mathrm{~A})$. $-8 \mathrm{~S}-\mathrm{DV}$ is designed for use with permanently installed lighting loads and with fan motor loads up to $1 / 10 \mathrm{HP}$ ( $3 \mathrm{~A}, 120 \mathrm{~V} \sim$ only).
4 Switch Load Type: -6ANS-277 is designed for use with permanently installed lighting loads.
5 For loads larger than 8 A @ 120 V~, the -8ANS-120 switch can be used with the PHPM-SW-DV-WH power booster. For loads larger than the MRF2-6ANS-277 capacity of 6 A @ 277 V~, the -8ANS-120 can also be used with the PHPM-SW-DV-WH power booster to switch 277 V~ loads. Please note that in this application, the -8ANS-120 switch is providing an input at $120 \mathrm{~V} \sim$ and the power booster is switching $277 \mathrm{~V} \sim$.
6 Can control the following power boosters/load interfaces: Phase-adaptive Power Modules (PHPM-WBX-DV-WH), 3-wire Fluorescent Power Modules (PHPM-3F-DV-WH), Tu-Wire® Fluorescent Power Modules (PHPM-PA-DV-WH), and 0-10 V (GRX-TVI).
7 Can control the following power booster/load interface: Hi-Power $2 \cdot 4 \cdot 6$ тм Boosters (HP-2, HP-4, HP-6) for control of most popular lighting sources including Lutron» 3 -wire line voltage control fluorescent dimming ballasts (Hi-lume®, Hi-lume Compact SEтм, Eco-10』, and EcoSystem®).
8 Maximum load for double gang application is 8 A. Triple gang application derates maximum load to 7 A.
9 Dimmer Load Type: -F6AN is designed for use with permanently installed 3-wire line voltage control fluorescent ballasts or LED drivers only (Hi-lume, Hi-lume Compact SE, Eco-10, and EcoSystem).

## Specifications

## Regulatory Approvals

- UL Listed.
- CSA Certified.
- FCC Approved. Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
- Industry Canada Certified.


## Power

Operating voltage:
$120 \mathrm{~V} \sim 60 \mathrm{~Hz}$
277 V~ 60 Hz (-6ANS-277, -8S-DV, -F6AN-DV)

## Key Design Features

Dimmers

- On a single-tap, lights fade UP or DOWN.
- On a double-tap, lights go to full ON.
- When ON, press and hold to engage 20-second fade to OFF.
- Light levels can be fine-tuned by pressing and holding the dimming rocker until the desired light level is reached.
- Two-wire dimmers available.


## Switch

- On a single-tap, lights turn ON or OFF.
- Two-wire switches available.


## All RF Local Controls

- Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.
- 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.
- Controls always operate locally and do not require system control.
- Power failure memory: should power be interrupted, the control will return to its previously set level prior to the interruption when power is restored.
- Uses conventional 3-way and 4-way wiring.
- Multiple location control from Dimmer/Switch and up to 9 Companion Dimmer(s)/Switch(es).
- Use Lutron® Designer (Claro® and 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.
- Requires a 1 -gang U.S. wallbox. $31 / 2$ in ( 89 mm ) deep recommended, $21 / 4$ in ( 57 mm ) deep minimum.
- Green indicator lights.


## System Communications and Capacity

- Maestro Wireless controls communicate with the Рісотм wireless controls and ceiling mount occupancy sensors through radio frequency (RF).
- Maestro Wireless local controls must be located within $60 \mathrm{ft}(18 \mathrm{~m})$ line of sight or $30 \mathrm{ft}(9 \mathrm{~m})$ through walls, of a ceiling mount occupancy/ vacancy sensor.
- Maestro Wireless local controls must be located within $100 \mathrm{ft}(30 \mathrm{~m})$ line of sight or $30 \mathrm{ft}(9 \mathrm{~m})$ through walls, of a Рісотм wireless control.
- Up to 10 Maestro Wireless controls can be configured to work together.


## Environment

- Ambient operating temperature: $32{ }^{\circ} \mathrm{F}$ to $104{ }^{\circ} \mathrm{F}$ ( $0^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$ ), $0 \%-90 \%$ humidity, non-condensing. Indoor use only.


## Warranty

- 1 Year Limited Warranty.


## Operation



## IMPORTANT NOTICE:

FASS - Front Accessible Service Switch - to service load, remove power by pulling the FASS switch out completely on either the Dimmer/Switch or Companion Dimmer/Switch. After servicing load, push the FASS switch back in fully to restore power to the control.

## Mounting



## Dimensions

Front View


Side View


## Ganging and Derating

When ganging with other controls in the same wallbox, derating is required. See Load Type and Capacity chart. Only -8ANS controls have fins that need to be removed for multigang installations. No other controls have fins, but they must still be derated in multigang installations.

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## Wiring Diagrams

## Single Location Installation

-600M, -6MLV, -10D, -8S-DV


Single Location Installation with Neutral
-6ND, -6ANS-120, -8ANS-120, -6ANS-277


## Multi-Location Installation ${ }^{2}$

-600M, -6MLV, -10D with MA-R/MSC-AD; -8S-DV ${ }^{5}$ with MA-AS/MA-AS-277 or MSC-AS/MSC-AS-277


## Multi-Location Installation with Neutral ${ }^{2,3}$

-6ND with MA-R/MSC-AD; -6ANS-120, -8ANS-120 with MA-AS/MSC-AS; -6ANS-277 with MA-AS-277/MSC-AS-277

${ }^{1}$ When using controls in single location installations, tighten the blue terminal. DO NOT connect the blue terminal to any other wiring or to ground.
${ }^{2}$ Up to 9 Maestro Companion Dimmers/Switches may be connected to the Maestro Wireless Dimmer/Switch. Total blue terminal wire length may be up to 250 ft ( 76 m ).
${ }^{3}$ Neutral wire Dimmers/Switches must be connected on the Load side of a multi-location installation.
${ }^{4} 120$ V~ : -6ND, -6ANS-120, -8ANS-120
277 V~: -6ANS-277, 8S-DV
${ }^{5}$ Requires MA-AS/MSC-AS for $120 \mathrm{~V} \sim$ applications, and MA-AS-277/MSC-AS-277 for 277~ V applications.

## Wiring Diagrams

Single Location Installation with Neutral
-F6AN-DV


## Multi-Location Installation with Neutra ${ }^{2,3}$

-F6AN-DV with MA-R/MA-R-277 or MSC-AD/MSC-AD-2774

${ }^{1}$ When using controls in single location installations, tighten the blue terminal. DO NOT connect the blue terminal to any other wiring or to ground.
${ }^{2}$ Up to 9 Maestro Companion Dimmers may be connected to the Maestro Wireless Dimmer. Total blue terminal wire length may be up to $250 \mathrm{ft}(76 \mathrm{~m})$.
${ }^{3}$ Neutral wire Dimmers must be connected on the Load side of a multi-location installation.
${ }^{4}$ Requires MA-R/MSC-AD for 120 V~ applications, and MA-R-277/MSC-AD-277 for 277~V applications.

## Wiring Diagrams

## Single Location Installation with Power Booster Single Feed

-6ANS-120, -8ANS-120 with PHPM-SW-DV-WH


Multi-Location Installation with Power Booster ${ }^{2,3}$ Single Feed
-6ANS-120, -8ANS-120 with MA-AS/MSC-AS and PHPM-SW-DV-WH


## Single Location Installation with Power Booster Dual Feed

-6ANS-120, -8ANS-120 with PHPM-SW-DV-WH


## Multi-Location Installation with Power Booster ${ }^{2,3}$ Dual Feed <br> -6ANS-120, -8ANS-120 with MA-AS/MSC-AS and PHPM-SW-DV-WH



[^0]
## Wiring Diagrams

## Single Location Installation with Power Booster Single Feed

-F6AN-DV with PHPM-3F-DV-WH, PHPM-PA-DV-WH, or PHPM-WBX-DV-WH


## Multi-Location Installation with Power Booster ${ }^{2,3}$ Single Feed

-F6AN-DV with MA-R/MSC-AD and PHPM-3F-DV-WH, PHPM-PA-DV-WH, or PHPM-WBX-DV-WH


## Single Location Installation with Power Booster Dual Feed

-F6AN-DV with PHPM-3F-DV-WH, PHPM-PA-DV-WH, or PHPM-WBX-DV-WH


## Multi-Location Installation with Power Booster ${ }^{2,3}$ Dual Feed <br> -F6AN-DV with MA-R/MSC-AD and PHPM-3F-DV-WH, PHPM-PA-DV-WH, or PHPM-WBX-DV-WH



[^1]
[^0]:    ${ }^{1}$ When using controls in single location installations, tighten the blue terminal. DO NOT connect the blue terminal to any other wiring or to ground.
    ${ }^{2}$ Up to 9 Maestro Companion Switches may be connected to the Maestro Wireless Switch. Total blue terminal wire length may be up to $250 \mathrm{ft}(76 \mathrm{~m})$.
    ${ }^{3}$ Neutral wire Switches must be connected on the Load side of a multi-location installation.

[^1]:    ${ }^{1}$ When using controls in single location installations, tighten the blue terminal. DO NOT connect the blue terminal to any other wiring or to ground.
    ${ }^{2}$ Up to 9 Maestro Companion Dimmers may be connected to the Maestro Wireless Dimmer. Total blue terminal wire length may be up to $250 \mathrm{ft}(76 \mathrm{~m})$.
    ${ }^{3}$ Neutral wire Dimmers must be connected on the Load side of a multi-location installation.
    ${ }^{4}$ When using a PHPM, tighten the brass (Sw Hot) terminal. DO NOT connect the brass terminal to any other wiring or to ground.

