

### SPECIFICATIONS

UL and cUL Listed  
 Power Supply/Charger (MRDP10)  
 Input Voltage .....120VAC, 0.15A, 60 Hz  
 Output Voltage .....8VDC, 600mA

Touchscreen (MRDS10)  
 Input (charging) Voltage.....8VDC, 600mA

### DESCRIPTION

The MRDS10 Touchscreen is a Top Dog™ wireless network House, Room and Group level controller. It has a 2-color LCD touch panel display.

The Touchscreen can be operated with power supplied by the MRDP10 wall-mount charger, the optional MRDC10 table-top charger, or it can be temporarily removed from the power supply to be used as a portable hand-held device.

### Top Dog™ Wireless Communication

Watt Stopper wireless devices use radio signals to communicate with each other to control lighting and other types of electric loads in selected areas. These wireless devices use the 900MHz band for high-speed control communication. Using the Watt Stopper's own "frequency-agile" Top Dog™ technology, these wireless devices avoid interference with other 900MHz devices, such as cordless phones and baby monitors.

### OPERATION

The **MRDS10 Touchscreen** is a house level scene controller. The **MRDP10** is included with the MRDS10 package. It is a wall-mounted power supply and battery charger for the Touchscreen. The Touchscreen can be used while attached to the MRDP10, or it can be temporarily removed from the MRDP10 and used as a portable handheld device. The Touchscreen should be returned to a MRDP10 or MRDC10 power supply to recharge its batteries.

### Human Interface

The primary human interface on the MRDS10 is the Touchscreen. The menus and control functions are accessed by touching the labels and icons on the screen. The Touchscreen has a help system built into each page. To access help and information about a particular page, press the question mark button at the top of any page.



The MRDS10 also uses a multi-color LED (green/amber/red) to indicate device status. Directly below the LED there is a single push-button. Momentarily press this button to wake up the device when in power save mode. This button also acts as a software reset (reboot) function when held for a period of 10 seconds. When this is done the factory default contrast and brightness settings are restored. No other setup information is altered.

To reset the unit to a factory default state, the user must use the Touchscreen to go into the setup menu and perform this function in the Lock/Reset page.



### Power Fail Memory

After a power failure, all wireless devices automatically return to the state that they were in immediately prior to loss of power. All configuration and scene control information is preserved.



### Status LED Indicator

The LED can display one of three colors: green, yellow (amber, a combination of red and green), or red. The color can be constant, or can flash at one of three rates to further distinguish reported conditions. To determine the flash rate, count the number of flashes in 5 seconds:

5 flashes.....1Hz  
 10 flashes.....2Hz  
 15 flashes.....3Hz

### MRDS10 LED Indications are as follows:

Color	Behavior	Meaning
none	Off	Device is not powered or is in "sleep" mode.
Green	On, not flashing	Device is powered, has a house ID, operating normally.
Green	Flashing @ 2 Hz	During binding, device is excluded, but can be added.
Yellow	On, not flashing	Device does not have a house ID.
Yellow	Flashing @ 2 Hz	Device is part of a binding process, either Group or Room. Binding was started by some other device and must be stopped on the other device.
Yellow	Flashing @ 3 Hz	Device is the master of a binding process. Binding was started on this device and must stop on this device.
Red	Flashing @ 2 Hz	Device has encountered an error. An invalid command was attempted. Caution: Battery Voltage is Low ~ 10s every 1-2 minutes
Red	Flashing 3 Hz	Shutting down Touchscreen due to low battery condition

### APPLICATION ASSISTANCE

The wireless network may contain a variety of wireless devices. Instructions for installation, binding operations, and use are included with the relevant wireless devices. Application support information and installation guides for Watt Stopper/Legrand wireless network devices are available at [www.wattstopper.com](http://www.wattstopper.com).

## WALL-MOUNT POWER SUPPLY INSTALLATION

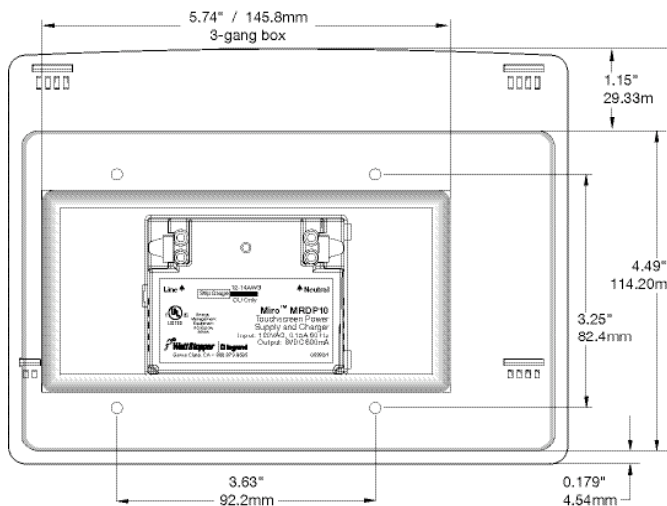
The MRDP10 can be installed in a user occupied space within radio range of the wireless network devices. **It must be installed in accordance with national and local electrical codes by qualified personnel.**

The MRDP10 housing is designed for installation in a 3-gang electrical box using four mounting holes on the unit. Radio communication cannot be guaranteed if the unit is mounted in a metallic electrical enclosure.

1. Complete the physical installation and binding of all other wireless devices in the network.
2. Shut off the circuit breaker.



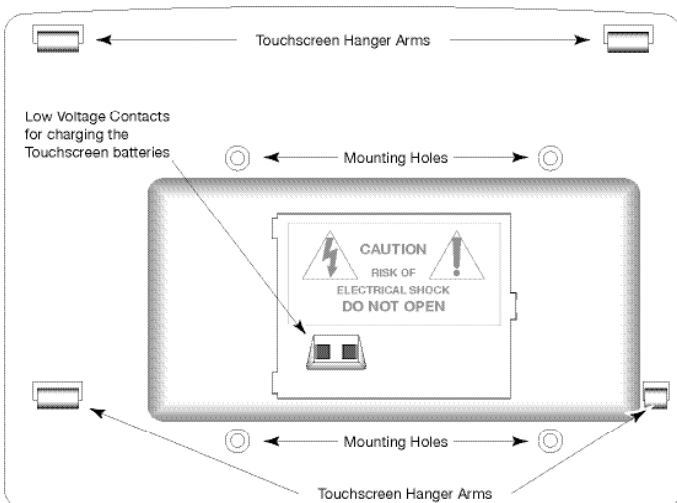
3. Install a 3-gang (minimum) electrical wall box in a location convenient to the system user.



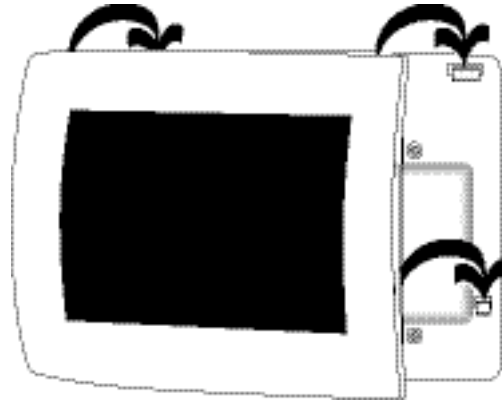
### Back of MRDP10

Do not locate the MRDP10 close to any device that may cause interference or behind large metal objects that can block radio reception. Avoid fluorescent light fixtures, TV sets, computers, refrigerators, microwave ovens, range hoods, safes, etc.

4. Wire the MRDP10 to the 120VAC supply circuit using the NEUTRAL and LINE terminals as indicated on the back of the MRDP10.
5. Secure the MRDP10 to the electrical wall box using the 4 mounting hole screw locations.



6. Hang the Touchscreen from the Touchscreen Hanger Arms on the front of the MRDP10. Once you're sure that the hanger arms are in all 4 slots of the Touchscreen, lightly push downward on the Touchscreen frame to ensure that the Low Voltage Contacts make connection to the Touchscreen battery contacts.



7. The status LED lights yellow, indicating that the unit is ready for configuration. See SET HOUSE ID in this manual.

## SET HOUSE ID

All Watt Stopper Top Dog wireless devices installed in the same system must acquire the same unique House ID before use. This process is known as house binding. Each wireless device is bound to all other wireless devices in the house. If you are not familiar with the binding process for the devices in your installation, please review the Installation Guide, or individual installation instructions provided with the devices.

The House ID binding gives the Touchscreen the same House ID as the rest of the wireless network.

1. Make sure all devices are installed and energized and all group, house, and room bindings are complete. Make sure that every other wireless device LED is green and the MRDS10 is yellow (amber).
2. Press on any **previously bound** device until its LED flashes amber (about 2 seconds).
3. Verify that the LED on the MRDS10 starts flashing green. This sets the House ID to match the other devices in the house.
4. Return to the **same previously bound** device used in step 2 and press until its LED changes to solid green (about 2 seconds). All device LEDs including the MRDS10 should now be solid green.

## FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by Watt Stopper/Legrand could void your authority to operate this equipment.



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