

Electrical Connections

DRY CONTACTS (RATED 120VAC, MAX.2A)

XX	Active Pump
120VAC CONNECTIONS	
L	AC Line In Zone Pump Line Out (max. 1/6 HP)
N	AC Neutral
⊕	Earth Ground

Fuse: 5A slow blow, 5x15mm (2AG)

Operational Summary

ZONE PUMP

The zone pump will be activated when the thermostat calls for heat.

AUXILIARY OUTPUT

XX: Contact closure when zone pump is ON.

FACTORY DEFAULT

To restore the zone controller to Factory Default, press and hold the Pair button until the Network Status LED turns off (~10 secs).

Note: Restoring to Factory Default will remove the zone controller from the network and delete all associated devices.

LED Indicators

NAME COLOR MEANING

Power	●	120 VAC power ON
Zone 1	●	Zone pump active
Network Status	●	Searching for network
	●	Paired to a network

Zone controller ID Number

ZONE LED PATTERN: SHORT=1, LONG=3	WCID#
●	1
● ●	2
—	3
— ●	4
— ● ●	5
— —	6
— — ●	7
— — ● ●	8
— — —	9




Warning

- This product must be installed by qualified personnel and the installation must comply with the codes and regulations applicable to the municipality where this product is installed. Failure to do so could lead to injury, death, or prosecution.
- Always disconnect the AC power before installing or working on AC power components.

For PDF Installation guide go to


mrpexsystems.com
(800) 716-3406

1




Remove the plastic cover by unscrewing the 4 screws at the corners.

2



Attach the back of the 5310101 to the wall or in a suitable location, using the included hardware.

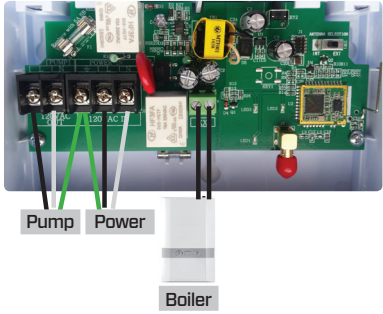
3




Disconnect the AC power to the AC wiring for the device.

4

Wire the device to the AC power supply and zone pump using wiring appropriate for 120VAC. Connect the other terminals as appropriate to the other devices using proper wiring. Be sure to thread wiring through the knock outs and use cable clamps to fasten the wiring to the device.




5




Make sure that the fuse is 5A, slow blow and inserted correctly.

6




If you need an external antenna, please follow the instructions to the right for *External Antenna Installation*.

7



Re-attach the plastic cover, securing it with the 4 screws and switch on the AC power to the unit. The Power LED will come on.

8



The device is now ready to be connected to the network. Follow the steps for the selected type of network to add the device to the network using the Pair button on the top of the device as required.

LOCAL ONLY NETWORK USING ZIGBEE COORDINATOR

- Plug the Coordinator into a centrally located outlet in the home if you have not already done so.
- Press and hold the button on the Coordinator until the button flashes red (about five second)
 - The Coordinator is now ready to pair and is looking for devices.
 - The Network Status LED on each zone controller will go steady red when connected to the Coordinator. One Coordinator can support up to nine zone controllers.
- Determine the network ID number for a zone controller by pressing the Pair button briefly and counting the flashes of the Zone LED (see WCID# chart under LED Indicators).
- Pair and setup the MrPEX® thermostats according to the thermostat manual, using the zone controller ID number determined in the previous step.
- When all thermostats are setup, press and hold the button on the Coordinator until the button is steady red (about five seconds).



CHECKING SYSTEM CONFIGURATION & COMMUNICATION

Coordinator to Zone controllers

Press and hold the coordinator button for one second. All devices connected to the coordinator will flash. For the zone controller, the Network Status and Zone 1 LEDs will flash. To stop checking, press and hold the coordinator button again for one second.

Zone controller to Thermostat

Press and hold the Pair button until the Network Status and Zone 1 LEDs flash (about 3 seconds), and the associated thermostat will flash its display. To exit Identify mode, press and hold the Pair button again until the Network Status is steady red.

INTERNET CONNECTED NETWORK USING BASIC GATEWAY

- Setup the Basic Gateway as instructed and associate the gateway with the MrPEX® service account.
- Go to the **Add New Equipment** page on the MrPEX® app and press "Scan for equipment". - The gateway ring will flash red indicating that it is looking for devices.
- Use the MrPEX® app to add the zone controllers to your MrPEX® network.
- The Network Status LED on each zone controller will go steady red when connected to the Basic Gateway.
- Use the MrPEX® app to add the MrPEX® thermostats to your network and associate them with the desired zone controller and zone.
- When all devices are setup, exit the **Add New Equipment** function on the MrPEX® app.
 - The gateway ring will turn steady blue to indicate normal operating mode.



CHECKING SYSTEM CONFIGURATION & COMMUNICATION

Gateway to Zone controllers

Go to the MrPEX® App and press the Identify button for the desired zone controller. The desired zone controller will start flashing the Network Status and Zone 1 LEDs. To stop the identify process, press the Identify button on the App again.

Gateway to Thermostat

Go to the MrPEX® App and press the Identify button for the desired thermostat. The desired thermostat will start flashing its display. To stop the identify process, press the Identify button on the App again.

EXTERNAL ANTENNA INSTALLATION

If you need to install an external antenna, perform the following:

- Disconnect power
- Remove the protective cover from the External Antenna connector on the bottom edge of the board.
- Pass the antenna cable through the antenna knock out (and cable clamp) on the bottom of the housing and screw the cable onto the connector.
- Secure the cable using a cable clamp.
- Change the Antenna Selection switch from INT to EXT.
- Reconnect power

The device will now use the external antenna for wireless communication.

Note: For regulatory compliance, only the 5310002 antenna (sold separately) can be used with this device.



FCC/IC STATEMENTS AND NOTICES

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. 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 receive is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC AND INDUSTRY CANADA

RF Radiation Exposure statement: This equipment complies with FCC and Industry Canada RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the antenna and all persons.

Cet appareil est conforme aux limites d'exposition au rayonnement FR du FCC et d'Industrie Canada pour un environnement non contrôlé. Cet appareil devrait être installé et devrait fonctionner de sorte qu'il se trouve à une distance d'au moins 20 cm entre l'antenne et toute personne.

INDUSTRY CANADA

This device complies with Industry Canada licence - exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : 1) l'appareil ne doit pas produire de brouillage, et 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.