

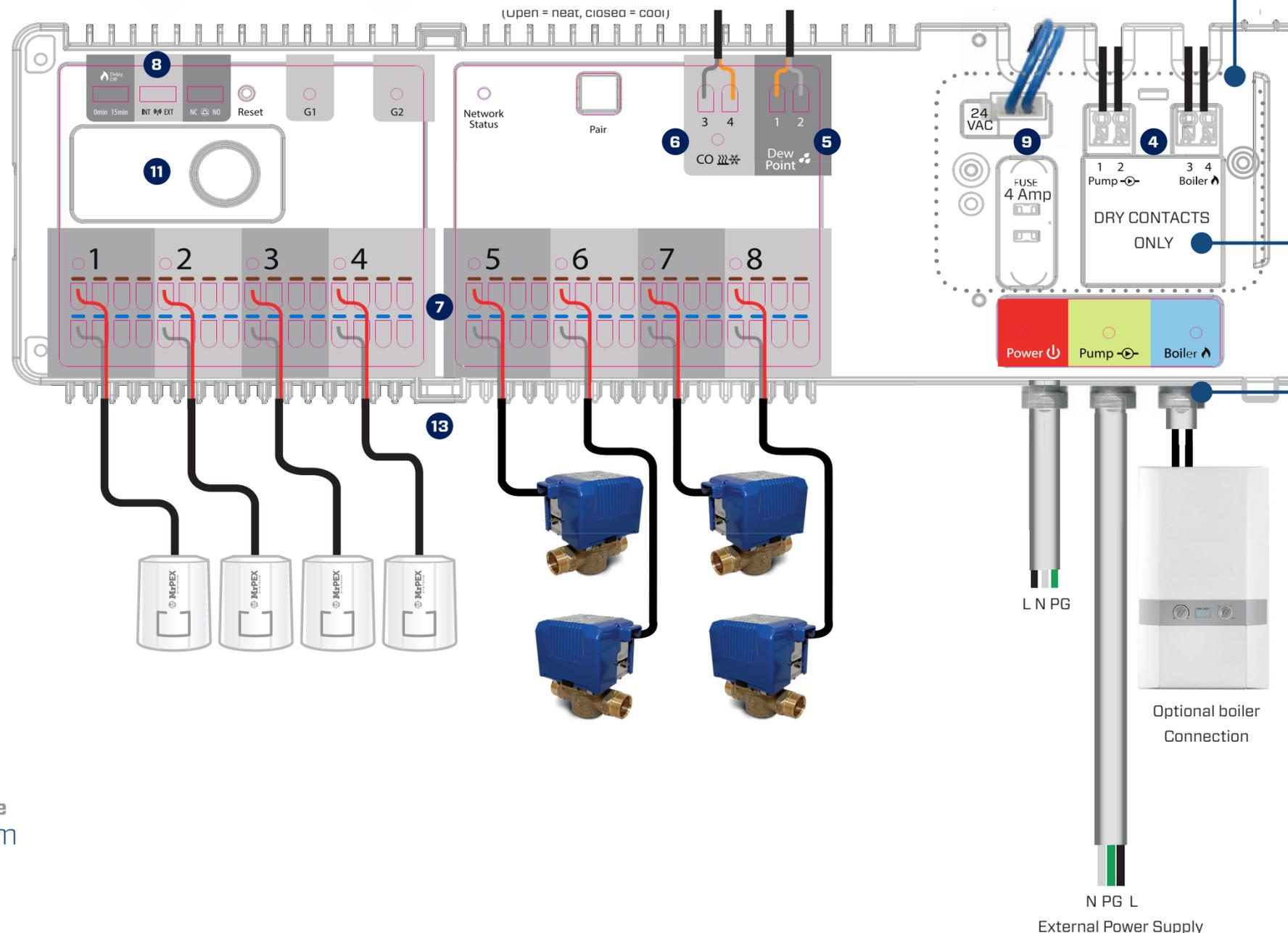
Electrical Connections	
L	Live connection
H	Hot
N	Neutral
PG	Ground
Fuse	4 Amp
G1	Group 1 Thermostats
G2	Group 2 Thermostats
CO	Change Over (Heat/Cool)



Warning

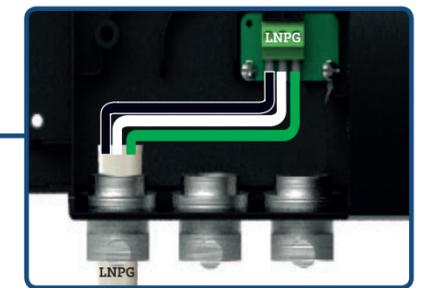
- This product must be fitted by a competent person, and installation must comply with the guidance, standards and regulations applicable to the country or state where the product is installed. Failure to comply with the requirements of the relevant guidance, standards and regulations could lead to injury, death or prosecution.
- Always isolate the AC main supply before installing or working on any components that require 120 V AC 60Hz supply.
- The ground terminals on the 5310208 are for ground connections only. These terminals provide no earth protection.

Maintaining a policy of continued product development MrPEX® reserves the right to change specification, design and materials of products listed on this installation guide without prior notice.
Issue Date: Dec 2019

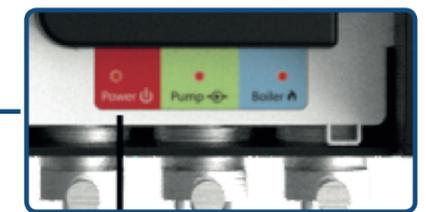


I INFORMATION
Remove the High Voltage cover access to the Boiler and Pump terminals.

Remove the white plate in order to reach the power cord terminals for 120VAC supply.



Loosen the wire connectors and insert wires for the power, boiler and pump. Install wires in their respective locations. Tighten the wire connectors to secure the wires. See section 8 for more info.



I INFORMATION
The wire connectors used for securing the wires are sold separately.

I INFORMATION
If you are mounting the Zone Zone Controller on a stud wall, extra support may be required.

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.

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.

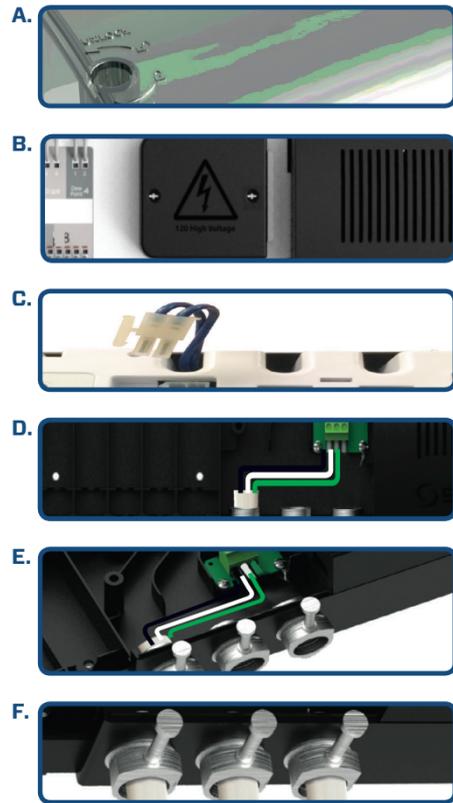
This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

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.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.
Les antennes utilisées pour cet émetteur doivent être installées pour fournir une distance de séparation au moins de 20 cm de toutes les personnes.

Use the 5310208 zone Controller to simply and safely connect thermostats and corresponding thermal actuators or zone valves. The 5310208 connects to the wireless network through the 5310003 coordinator or the Universal Gateway 5310888. **One coordinator can support up to nine Zone Controllers, which means that if you buy more than one Zone Controller, you will only need one of the included coordinators. Keep the other coordinators in a safe place as spares. If you are using the Universal Gateway 5310888 please remove the 5310003 coordinator from your system.** Install the 5310208 only in dry and closed interior rooms. Relative air humidity in the room may not exceed 95%. Clean the 5310208 only with a dry and soft cloth. Do not use solvents or aggressive cleaning agents.

1. Remove the plastic cover by turning the screw 90° to the Unlock position.
2. Remove the High voltage cover.
3. Detach the 24V supply connection.
4. Remove the white terminal for access to the power cord connections.
5. Insert wires for the Power, Pump and Boiler and fasten securely.
6. Use the proper wire connectors (purchased separately) for a 120VAC power supply system. After placing the wires through the wire connectors, secure them by tightening the screws.



3. **Connect your zone controller to a 120VAC supply**
Connect the wires to the correct terminals.

Warning
Use the powercord connections that are suitable for your system.

4. Clip in the terminals for boiler and pump connection. Press the terminal button, insert the cable and release the button.

Ensure the Pump and Boiler wires are placed in their respective grooves in the back plate.

I Make sure to put the wires through the grooves.

5. Push in the Dew Point wires in the 5310208 for a dry contact humidity sensing.

6. Push in the CO wires for dry contact heating/cooling changeover switching. An open switch is for heating (red LED). A closed switch is for cooling (blue LED).

- Heating mode
- Cooling mode

7. Bend and place the wires into their correct positions. Reattach the 24V supply connection. Bend and place the wires into the round holes at the bottom of the 5310208 for actuators/Zone valves. You can add up to 4 actuators or Zone valves for each zone. Reattach the white cover to the zone controller and secure it with two screws. Set the boiler delay, wireless, and thermal actuator jumpers.

8. **Jumper Settings/Positions for Pump/Boiler On/Off Delay**
The pump/boiler on delay and the pump off delay are fixed 3 minutes in the software and at 0 in the terminal. The default setting for the boiler off delay is also 0 minutes, but can be changed to 15 minutes. To do this, carefully remove the jumper and re-insert it in the other position as shown below:

Wireless
The default setting for the wireless connection is internal (INT). If the external antennae 5310002 is used change this setting (EXT). Carefully remove the jumper and re-insert it in the other position as shown below:

Type of Actuator
The default setting for the type of actuator is normally closed (NC). To change this setting to normally open (NO), carefully remove the jumper and re-insert it in the other position as shown below. Note that the actuator setting and thermostat setting must be the same.

9. Make sure there is the correct fuse (4 Amp).

10. Re-attach the High voltage cover and secure it with two screws.

11. If you are not using the 5310888 Gateway then plug in the 5310003 coordinator.

12. Re-attach the plastic cover. Turn the screw in the lock position. Switch on main power supply to the unit. The red LED comes on.

13. If you need to install the specified external antenna and have set the wireless jumpers to EXT:

- A. Disconnect power.
- B. Remove the protective cap from the antenna connection on the bottom of the 5310208.
- C. Screw the antenna into the 5310208.
- D. Change the INT/EXT jumper position to EXT position.
- E. Reconnect power. The 5310208 will now use the external antenna and not the internal antenna the 5310208.

I The antenna (type 5310002, gain 2.15dBi, made by MrPEX®) for 5310208 is sold separately.

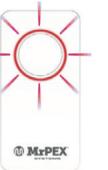
LED indications

NAME	COLOR	MEANING
Power	●	5310208 is supplied with 120V power
G1	☀	Wireless network activity on group 1 thermostats
G2	☀	Wireless network activity on group 2 thermostats
PG	☀	5310208 is waiting to pair
Network Status	●	5310208 is connected to the wireless network
Zone 1 actuators	●	Demand from group 1, zone 1 thermostat: actuator open
Zone 2 actuators	●	Demand from group 1, zone 2 thermostat: actuator open
Zone 3 actuators	●	Demand from group 1, zone 3 thermostat: actuator open
Zone 4 actuators	●	Demand from group 2, zone 1 thermostat: actuator open
Zone 5 actuators	●	Demand from group 2, zone 2 thermostat: actuator open
Zone 6 actuators	●	Demand from group 2, zone 3 thermostat: actuator open
Zone 7 actuators	●	Demand from group 2, zone 4 thermostat: actuator open
Zone 8 actuators	●	Pump on
Pump	●	Boiler on
Boiler	●	Heating Mode
CO	●	Cooling Mode

Coordinator

CONNECTING THE 5310208 (S) TO THE ZIGBEE WIRELESS NETWORK

1. On powering up the 5310208, all actuator LEDs light up green then go off, then the Network Status LED flashes green.
 2. Press and hold the button on the coordinator for five seconds. The button flashes red to indicate the coordinator is ready to pair. The Network Status LED on the 5310208 goes steady green when connected.
 3. Repeat the process for every 5310208 in the system. Note that one coordinator can support up to nine 5310208s.
 4. To identify your 5310208 (WC) number press Pair for one second. The LED on the zone number lights green: Zone 1 = WC -1, Zone 2 = WC -2, and so on. The Network Status LED is used to identify WC-9.
 5. To pair your MrPEX® thermostats, see your thermostat manual.
 6. Press the coordinator button for five seconds until the LED flashes steady red.
- Note:** To restore the 5310208 back to factory default settings at any time, using a suitable tool, press the Reset button to the left of the pair button.



CHECKING THE SYSTEM CONFIGURATION AND COMMUNICATION

- Press and hold the coordinator button for one second. All devices connected to the system flash. To stop checking, press and hold the coordinator button again for one second.
- Press and hold the Pair button on the WC for five seconds. All devices connected to the 5310208 will flash. To stop checking, press and hold the Pair button again for five seconds.

DELETING ALL DEVICES FROM THE WIRELESS NETWORK

- To delete all devices connected to the network, press and hold the coordinator button for 15 seconds. The colour of the button changes from red to amber.
- To delete all devices connected to the 5310208, press and hold the pair button on the 5310208 for 15 seconds. The G1 and G2 LEDs turn from flashing red to solid red then go off.

Note: After all devices have been deleted from the wireless network, they will need to be reinstalled. Refer to the instruction manuals.

Universal Gateway

CONNECTING THE 5310208 (S) TO THE ZIGBEE WIRELESS NETWORK

1. On powering up the 5310208, all actuator LEDs light up green then go off, then the Network Status LED flashes green.
 2. Remove the coordinator, access the MrPEX® App and add your 5310208. When in Pairing Mode, the Universal Gateway will start flashing red. The Network Status LED on the 5310208 goes steady green when connected.
 3. Repeat the process for every 5310208 in the system. Note that one Universal Gateway can support up to 100 devices (thermostats, ARVs, etc.).
 4. To identify your 5310208 (WC) number press Pair for one second. The LED on the zone number lights green: Zone 1 = WC -1, Zone 2 = WC -2, and so on. The Network Status LED is used to identify WC-9.
 5. To pair your MrPEX® thermostats, see your thermostat manual.
 6. The Universal Gateway will turn solid blue automatically, once the pairing process is complete.
- Note:** To restore the 5310208 back to factory default settings at any time, using a suitable tool, press the Reset button to the left of the pair button.



CHECKING THE SYSTEM CONFIGURATION AND COMMUNICATION

- Go to the MrPEX® App and press the Identify button. The device will start flashing. Stop the identify process by pressing the button from the App again.
- Press and hold the Pair button on the WC for five seconds. All devices connected to the 5310208 will flash. To stop checking, press and hold the Pair button again for five seconds.

DELETING ALL DEVICES FROM THE WIRELESS NETWORK

- You can remove your devices from the MrPEX® App. Equipment, All equipment menu.
- To delete all devices connected to the 5310208, press and hold the pair button on the 5310208 for 15 seconds. The G1 and G2 LEDs turn from flashing red to solid red then go off.

Note: After all devices have been deleted from the wireless network, they will need to be reinstalled. Refer to the instruction manuals.