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Installing and Connecting the KL08RF24

Use the KL08RF 24V wireless wiring centre to simply and safely connect thermostats and corresponding thermal actuators. The KL08RF connects to the wireless network through the CO10RF coordinator. **One coordinator can support up to nine wiring centres, which means that if you buy more than one wiring centre, you will only need one of the included coordinators. Keep the other coordinators in a safe place as spares.** Install the KL08RF 24V only in dry and closed interior rooms. Relative air humidity in the room may not exceed 95%. Clean the KL08RF 24V only with a dry and soft cloth. Do not use solvents or aggressive cleaning agents.

1



Remove the plastic cover. Open (and close) the four white screws with a quarter turn only. Note that screws on opposite sides turn in the opposite direction.

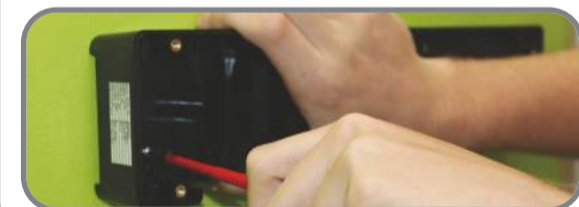
2

Remove the white terminal connection board.



3

Attach the back of the KL08RF 24V to the wall. No need to remove the white body to mount to a DIN rail.



4

Replace the white terminal connection board.



5

Push the thermal actuator wires into the round holes at the bottom of the KL08RF 24V. You can connect up to three actuators in each zone.



6

Push in the Pump wires at the bottom right of the KL08RF 24V for volt-free pump switching.



7

Push in the Boiler wires at the bottom right of the KL08RF 24V for volt-free boiler switching. When a zone calls for heat, the boiler switch closes causing the boiler to run.



8

Push in the CO wires at the bottom right of the KL08RF 24V for volt-free heating/cooling changeover switching. An open switch is for heating (red LED). A closed switch is for cooling (blue LED).

- Heating mode
- Cooling mode

9

Push in the Dew Point wires at the bottom right of the KL08RF 24V for volt-free humidity sensing.



10

Attach the red strain-relieving strip using the three screws to secure the pump, boiler, CO, and dew point wires to the bottom side of the KL08RF 24V.

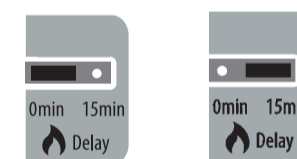


11

Set the boiler delay, wireless, and thermal actuator jumpers at the top right of the KL08RF.

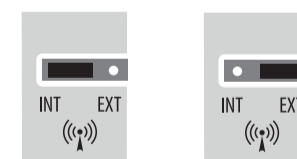
Jumper Settings/Positions for Pump/Boiler On/Off Delay

The pump/boiler on delay and the pump off delay are fixed at three minutes. The default setting for the boiler off delay is also zero 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:



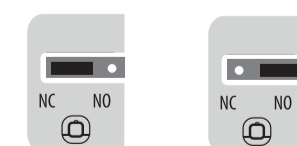
Wireless

The default setting for the wireless connection is internal (INT). To change this setting to external (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.



12

Make sure there is a fuse in the fuse holder.



13

Plug in the CO10RF coordinator.



14

Replace the plastic cover.



15

Switch on mains power supply to the unit. The red LED comes on.



16

If you need to install the optional external antenna and have set the Wireless jumpers to EXT:

- a. Disconnect power.
- b. Remove the protective cap from the antenna connection on the **underside** of the KL08RF 24V.
- c. Screw the antenna into the KL08RF 24V.
- d. Reconnect power. The KL08RF 24V will now use the external antenna and not the internal antenna.



LED indications

Name	Colour	Meaning
Power	●	KL08RF is supplied with 230V power
G1	☀	Wireless network activity on group 1 thermostats
G2	☀	Wireless network activity on group 2 thermostats
Network Status	●	KL08RF is waiting to pair
	☀	KL08RF 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 1, zone 4 thermostat: actuator open
Zone 5 actuators	●	Demand from group 2, zone 1 thermostat: actuator open
Zone 6 actuators	●	Demand from group 2, zone 2 thermostat: actuator open
Zone 7 actuators	●	Demand from group 2, zone 3 thermostat: actuator open
Zone 8 actuators	●	Demand from group 2, zone 4 thermostat: actuator open
Pump	●	Pump on
Boiler	●	Boiler on
CO	●	Heating mode
	●	Cooling mode

Connecting the KL08RF 24V (s) to the ZigBee Wireless Network

- On powering up the KL08RF 24V, all actuator LEDs light up green then go off, then the Network Status LED flashes green.
- 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 KL08RF 24V goes steady green when connected.

- Repeat the process for every KL08RF 24V in the system. Note that one coordinator can support up to nine KL08RFs.
- To identify your KL08RF 24V (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.
- To pair your VS10RF or VS20RF thermostats, see your thermostat manual.
- Press the coordinator button for five seconds until the LED shines steady red.

Note: To restore the KL08RF 24V back to factory default settings at any time, using a suitable tool, press the Reset button to the right 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 **KL08RF 24V** 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 **KL08RF 24V**, press and hold the Network Status button on the KL08RF 24V 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.