

Meets the following EC Directives

- Electro-Magnetic Compatibility directive 2004 / 108 / EC
- Low-voltage Directive 2006/95/EC

These instructions apply to the SALUS model stated above.

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.

Warning

Always isolate the AC mains supply before installing or working on any components that require 230 V AC 50Hz supply.

Warning

The earth terminals on the KL08RF are for earth parking only. These terminals provide no earth protection.

For PDF Installation guide go to www.salus-controls.com

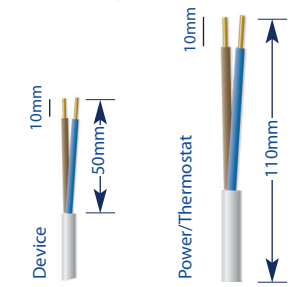
Installing and Connecting the KL08RF

Use the KL08RF 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 only in dry and closed interior rooms. Relative air humidity in the room may not exceed 95%. Clean the KL08RF only with a dry and soft cloth. Do not use solvents or aggressive cleaning agents.

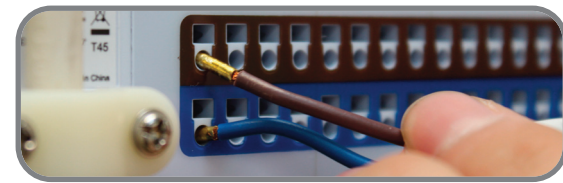
1 Remove the plastic cover. Open (and close) the four white screws with a quarter turn only. Note that screws on opposite sides turn in the opposite direction.



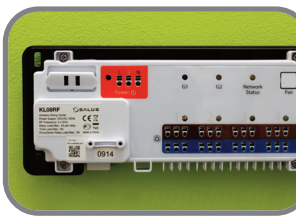
4 Cut the power and device cable to length.



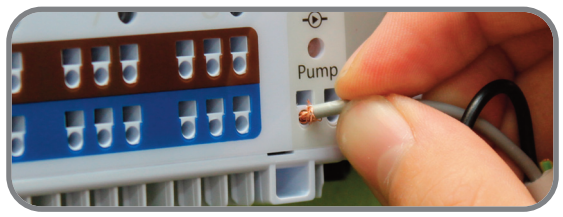
8 Push the thermal actuator wires into the round holes at the bottom of the KL08RF. You can connect up to three actuators in each zone.



5 Replace the white terminal connection board.



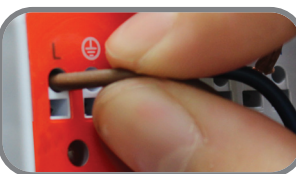
9 Push in the Pump wires at the bottom right of the KL08RF for volt-free pump switching. **VOLT FREE**



2 Remove the white terminal connection board.



6 Push the power wires into the round power holes.



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



3 Attach the back of the KL08RF to the DIN rail or wall.



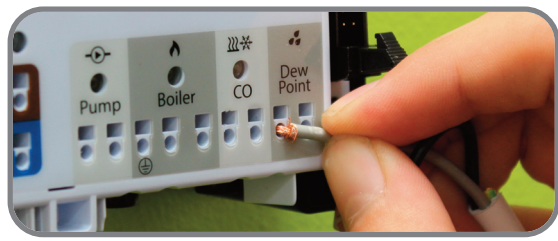
7 Attach the white strain-relief using the two screws to secure the power wires.



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

- Heating mode
- Cooling mode

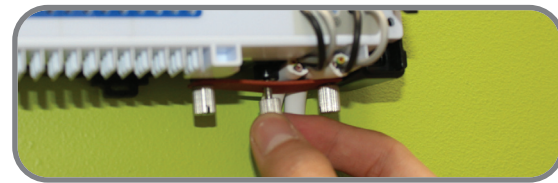
12 Push in the Dew Point wires at the bottom right of the KL08RF for volt-free humidity sensing. **VOLT FREE**



15 Make sure there is a fuse in the fuse holder.



13 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.



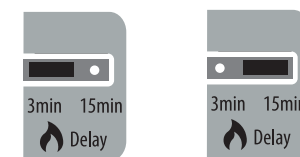
16 Plug in the CO10RF coordinator.



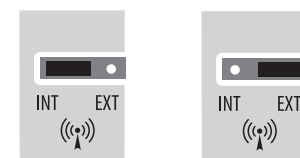
14 Set the boiler delay, wireless, and thermal actuator jumpers at the top right of the KL08RF.

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 three 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:

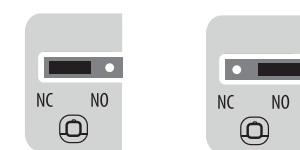


Wireless
The default setting for the wireless connection is internal (INT). To change this setting to external (EXT), carefully remove the jumper and re-insert it in the other position as shown below:



Type of Actuator

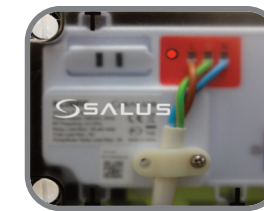
The default setting for the type of actuator is normally closed (NC). To change this setting to normally open (NO), carefully remove the jumper and re-insert it in the other position as shown below. **Note** that the actuator setting and thermostat setting must be the same.



17 Replace the plastic cover.



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



19 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.
- c. Screw the antenna into the KL08RF.
- d. Reconnect power. The KL08RF 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(s) to the ZigBee Wireless Network

- On powering up the KL08RF, 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 goes steady green when connected.
- Repeat the process for every KL08RF in the system. Note that one coordinator can support up to nine KL08RFs.
- To identify your KL08RF (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 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** 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**, press and hold the Network Status button on the KL08RF 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.