

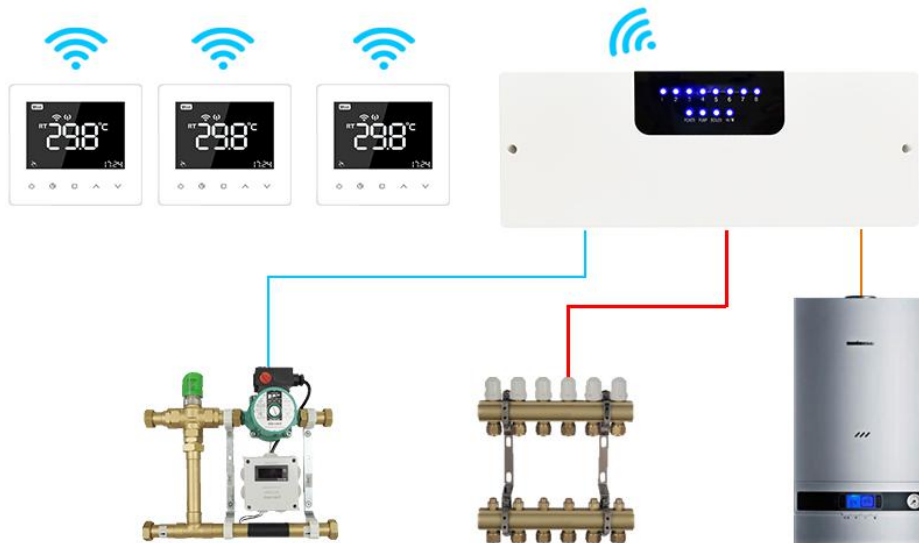
TPX08-RF Wireless Wiring Control Centre

Instructions

Description

TPX08-RF is an 8 Zone wireless central wiring centre for use with TP608RF-TR

thermostat. The TPX08-RF can be used to control any actuator or valve which requires a 230v AC signal. At the same time the TPX08-RF offers the ability to operate a boiler or other heat source through a volt free output with changeover contacts, which gives you both a heat on signal and a heat off signal. Additional outputs designed for use with underfloor heating systems. These are the pump and valve outputs which would normally operate a manifold pump or a manifold valve, Any output which is not needed can be ignore



System Components

1. Wireless wiring center box
2. Wireless thermostat
3. Thermal actuator
4. Pump
5. Boiler
6. Valve

***Each wireless wiring center could control max 8 loops .**

***Each loop has LED light indicate. So it's easy to see normal or not .
When thermostat heat on. Wiring center output LED light will be blue**

Technical Data

Power	95-240V AC 50/60Hz
Operating temperature	-20 – 60°C
Max load for zone outputs	3A
Max Total load	5A
Dimensions	280 x 110 x 43.5mm
No. of Zones	8
Pump Delay	3mins
Radio Frequency	868Mhz
Fuse rating	10A
IP rating	20

Operation

Each RF thermostat used on this system can be configured as a thermostat for either a radiator zone, underfloor heating zone .

When the thermostat sends a signal for heating, the TPX08RF will provide a 230VAC output on the Paried zone and also bring on the boiler/other heat source output. If the thermostat is configured as an underfloor heating zone, the Wiring center box will also start the pump and valve outputs.

Creepage

During hot seasons the heating is not normally needed as often, the valve and pump are not being used. To prevent this, it's good practice to operate the valve or pump 5mins each month. This function does not operate the boiler output.

Pump Delay

Normally the valves or actuators need more than 2mins to open. If the boiler and pump operate before the valve is open, it can force a boiler to go to lockout and stop operating. This function delays the operation of the pump and boiler for 3mins to give actuators and valves time to open.

Engineers Test Switches

These switches allow the installation engineer to test the operation of the valves, actuators, pumps, hot water or boiler, without having to install the thermostats.

System Setup

DIP switches

There is a 3way dip switch responsible for 3 functions:

- 1 Creepage Enable
- 2 Pump Delay
3. RF Test Enable

In normal use these DIP switches can be ignored and should be down in the off position.

DIP switch 1

To enable creepage protection, put switch 2 to the ON position.

DIP switch 2

To enable the pump delay, put switch 1 on the ON position.

DIP Switch 3

The boiler RF test switch is used to test communications with the RF-Switch receiver. (Not available now)

Engineers Test switches

These are blocks of 12 dip switches used to test each zone, boiler, pump and HW outputs. To enable any output, put the switch in the ON position. When installation is complete, all switches MUST be in OFF position.

Pairing to RF thermostat

Long press 8seconds the right corner SW 2 to enter paring standby mode.Channel 1 LED red light will on.Short press SW 2 to swift Zone 1-8.When you pair the code match channel red light will on .Wireless thermostat should enter Standby mode at the same time.The LED will flash 3seconds when connection sucessful. It will auto swift to next channel.The wireless wiring center will auto exit return paring code mode if the wireless thermostat do not send signal over 2mins.

Installation Instructions

- 1.1 To remove front cover, please loosen two retaining screws and hinge front cover upwards.
- 1.2 To mount the product, please use screw holes or by DIN rail utilising the DIN rail connector moulded into the back housing. *DIN rail not provided.
- 1.3 For cable entry please use the knock outs provided. Take care not to damage the PCB when removing knock outs.
- 1.4 For programmable digital thermostats the power supply should be via a double pole external isolator and should connect to main terminals marked L & N. Any earth connections should be made separately using the GND connection block. The wiring centre does not required earthing, this is for continuity to all devices. Link to a larger separate terminal block if required.
- 1.5 To operate dial thermostats via an external time switch please connect the Normally Open output from the time switch to main terminal L rather than a permanent Live supply. This will allow timed common feeds to all zones when the time switch is ON.

1.6 Zones 1-8Connections:

L – This output is to provide power or a common to each thermostat (can be permanently live or timed as per point 1.5.

N – This output is to provide a permanent neutral connection to each thermostat.



This is the return or 'switched live' from each zonal thermostat.



Top – This is the L terminal for the manifold actuator.

Bottom – This is the N terminal for the manifold actuator.

- 1.7 **Pump connections** – Used for an underfloor heating manifold pump .Connect Pump Live to the top connection, pump neutral to the bottom.
- 1.8 **Boiler connections** – The boiler connections are volt free. Therefore please connect boiler common to terminal marked COM, and the boiler signal to the terminal marked NO.
- 1.9 **Valve.** Used for an underfloor heating manifold valve.Connection with N and L terminal on board
- 2.0 **Reset button** – if, for any reason the wiring centre is not responding, please long hold the “SW2” over 8seconds reset button whilst powering on from an off status.

Important Notes

- 1) Please cut off the main power before installation
- 2) Make sure you are clearly know all the important points before installation
- 3) This product only professional engineer/qualify people could install
- 4) All wires connections should meet local and national standard
- 5) Operation strictly with manuals

Dimension

