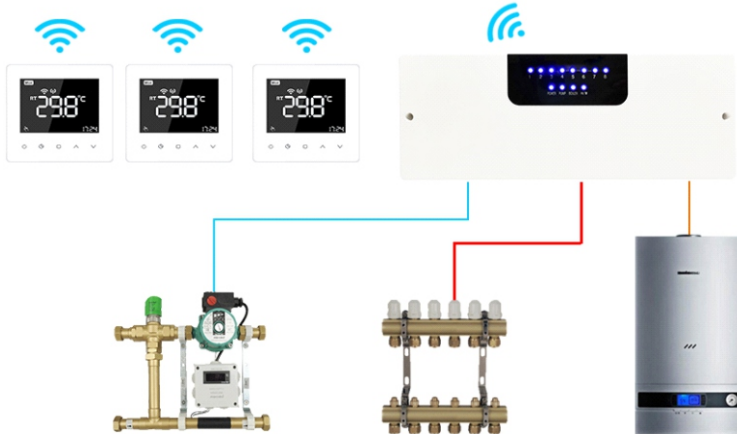


Description

This is an 8 Zone wireless central wiring centre is compatible with wireless thermostats. It can control any actuator or valve with a 230V signal. At the same time it offers the ability to operate a boiler and other heat sources; through a volt free output with changeover contacts, which gives you both a heat ON signal and heat OFF signal. Additional outputs designed for use with hot water underfloor heating systems are also included as standard. These are the pump and valve outputs which would normally operate a manifold pump or a manifold valve. The H/W output which is used to send a hot water ON and hot water OFF signal. 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. H/W

***Each wireless wiring center can control a maximum of 8 loops.**

***Each loop has LED light indication. Wiring center output LED light will be blue**

Technical Data

Power	95-240V AC 50/60Hz
Operating temperature	-20 – 60°C
Max load on H/W output	3A
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 TEVO thermostat used on this system can be configured as either a radiator zone, underfloor heating zone or in combination mode.

When the thermostat sends a signal for heating, wireless control centre will provide a 230V/AC output on the paired zone and also bring on the boiler/other heat source output. If the thermostat is configured as an underfloor heating zone the wiring centre box will also start the pump and valve outputs.

If an enable signal is received from a hot water timer clock on the system, only the H/W output will become active. This is a timed output, which is normally fed to a timer, then to a valve.

Creepage

During hot seasons the heating is not normally needed as often. To prevent this pump and valve from faltering it's good practice to operate the valve or pump for 5 minutes each month. This function does not operate the boiler output.

Pump Delay

Normally the valves and actuators need more than 2 minutes to open. If the boiler and pump operate before the valve is open it can force the boiler to lockout and stop operating. This function delays the operation of the pump and boiler for 3 minutes to give the 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 and boiler, without having to install the thermostats.

System Setup

DIP switches

There is a 3 way 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 the pump delay, put switch 1 on the ON position.

DIP switch 2

To enable creepage protection, put SW2 to the ON position.

DIP Switch 3

The boiler RF test switch is used to test communications with the RF-Switch receiver.

Engineers Test switches

These are a block of 12 dip switches used to test each zone, boiler, pump and H/W 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 SW2 for 8 seconds to enter pairing standby mode. Channel 1 LED red light will switch ON. Short press SW2 to navigate through zones 1-8. When you pair the devices, the matching channel light will turn ON. Wireless thermostat should enter standby at the same time. The LED will flash for 3 seconds when the connection is successful. It will auto switch to the next channel. The wireless wiring centre will auto exit and return to zone code mode if the wireless thermostat does not send a signal for over 2 minutes.



Installation Instructions

- 1.1** To remove front cover, please loosen two retaining screws on the front and hinge off the front cover upwards.
- 1.2** To mount the product, please use screw holes or by the DIN rail connector molded 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 require 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 1-8 Connections:

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

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 and 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 H/W. This output is used to control a hot water timer thermostat.

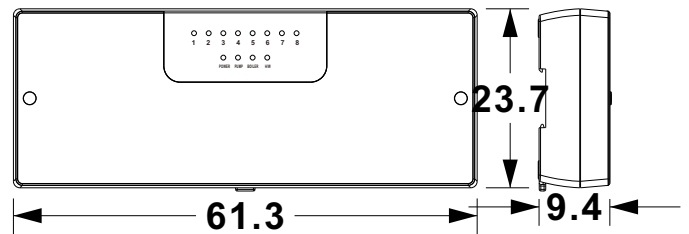
2.0 Valve. Used for an underfloor heating manifold valve. Connection with N and L terminal on board.

2.1 Reset button – If, for any reason, the wiring centre is not responding, please long hold the "SW2" over 8 seconds to reset the centre whilst powering on from an off status.

Important Notes

- 1) Please cut off the main power before installation.
- 2) Make sure you are familiar with the installation process before starting.
- 3) This product can only be installed by a trained professional.
- 4) All wire connections should meet local and national safety standard.

Dimension



Wiring Diagram

