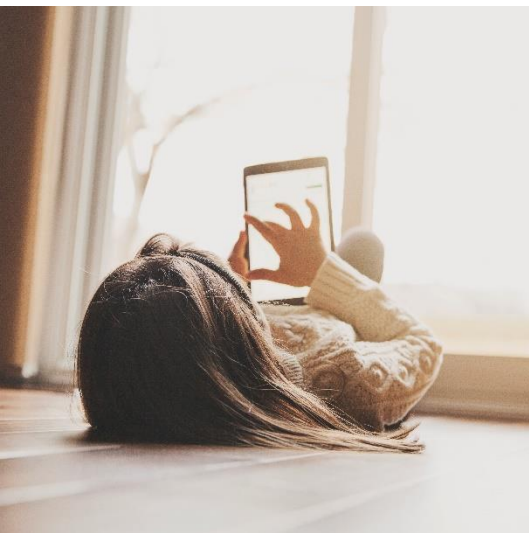




SNUG RF WIRELESS WIRING CENTRE

Part Code: SNUG-CENTRE-RF



OVERVIEW

The Snug RF Wireless Wiring Centre is a 9 zone wireless wiring centre and is designed to work with SnugStat RF Wireless Wi-Fi thermostats, giving installers a totally wireless solution.

It provides central switching and is therefore ideally situated next to the underfloor heating manifold. 9 zones can be controlled as well as providing an output for a hot water cylinder. At the same time the WB9-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. Up to 9 actuators can be connected to each zone.



THE PUMP & BOILER DELAY TIME

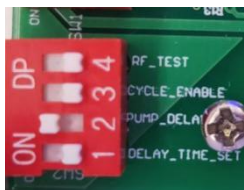
Switch 1 and Switch 2

WB9-RF has a feature of pump and boiler delay at the same time, user could set it 1 minute or 3 minutes by adjusting the switch on the pcb, the output delay time is 1 min if set switch 1 to the "SW2" position and switch 2 to the "ON" position; The output delay time is 3 minutes if switch 1 and switch 2 are "ON" position at the same time.

The delay switches are in the upper left corner of the pcb board named "DELAY_TIME_SET", "PUMP_DELAY"

Switch 3

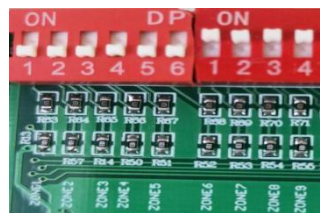
If the Switch 3 is in ON position, The boiler will work 1 min every 24 hours If WB9-RF does not work for a whole day.



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TEST SWITCHES

These little switches allow the installation to test the operation Of the valves, actuators, pumps hot water or boiler, without having to install the thermostats.
Zone 1....Zone 9.



FEATURES TABLE

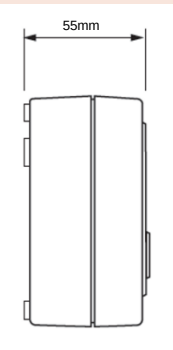
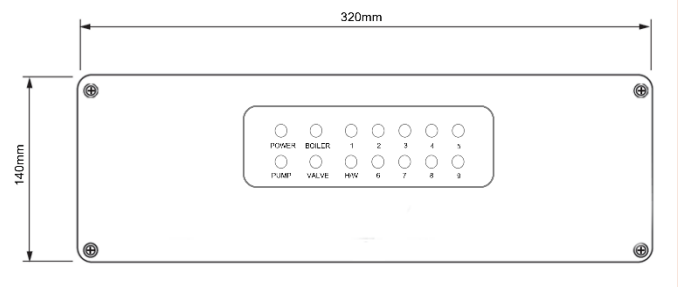
RF-Switch Compatible	Y
SnugStat RF Wireless Wi-Fi Thermostat Compatible	Y
Number of heating zones	9
Number of Hot Water Zones	1
Neon Indication	Y
DIN Rail Mounting	Y

SPECIFICATIONS

Supply	230v
Power Consumption	7W.
Max Load on Boiler Output	3 Amp, AC230V, Resistive
Max Load on H/W Output	3 Amp, AC230V, Resistive
Max Load on Zone Output	3 Amp, AC230V, Resistive
Total Load Max	5 Amp
IP Protection	IP20
Installed Dimensions (L, H, D)	320 x 140 x 55mm

DIMENSIONS

All dimensions in mm unless otherwise stated.



SNUG RF WIRELESS WIRING CENTRE

CONNECTIONS

Power supply into the WB9-RF, which should be fused at 5amp, these connections are;

L = live or phase 230v AC 50/60Hz

N = Neutral

E = Earth

BOILER

This is the main call for heat for the system, there are 3 connections;

C = common

NO = normally open

NC = normally closed

Electrically this is a two-way switch, whatever supply is placed on the C connection, is fed to the NC connection when there is no call for heat. This is then switched to the NO connection when there is a call for heat. Most systems will use the common (C) and normally open (NO) connections.

H/W

This output is used to control a hot water cylinder thermostat, user can use MC6-HD with Hot Water model to control this H/W output.

C = common

NO = normally open

Electrically this is a two-way switch, whatever supply is placed on the common connection, is fed to the NC connection when there is no call for hot water. This is then switched to the NO connection when there is a call for hot water. Normally the NO connection would be wired to the hot water cylinder thermostat, then from there to the hot water valve, the valve auxiliary switch will then start the boiler/other heat source. Most systems will use the common and normally open connections.

ZONES 1 – ZONE 9

Zones outputs are clearly marked

L= live out to actuator or valve

N = neutral to actuator or valve

There are two connections live (L) and neutral (N), both terminals marked L are the same and both terminals marked N are the same.

Each zone output is numbered, Zone 1 will respond to radio signals from the thermostat paired to zone 1, Zone 2 output will respond to thermostat numbered 2 etc.

PUMP

Used for an underfloor heating manifold pump. Connections are clearly marked

L = live or phase 230v ac 50/60Hz

N = Neutral

E = Earth

When an under-floor heating zone sends a call for heat to the WB9-RF, the live & neutral output will supply 230v to the manifold pump. It is recommended that this is fed through a high limit switch placed on the heating manifold, to protect against mechanical failure of the manifolds temperature control.

SNUG RF WIRELESS WIRING CENTRE

VALVE

Used for an underfloor heating manifold valve. Connections are clearly marked

L = live or phase 230v ac 50/60Hz

N = Neutral

E = Earth

When a thermostat configured as an under-floor heating zone sends a heating order to the WB9-RF, the live output will supply 230v to the manifold valve.

FUSES

WB9-RF is protected by 2 fuses

Fuse 1. 5amp, 20mm anti-surge fuse, this fuse supplies and protects the internal electronics.

Fuse 2. 5amp, 20mm anti-surge fuse, this fuse supplies power to all 230v outputs from the board it protects the zone, pump and valve outputs.

WIRING DIAGRAM

