OMNIE

CSQ-RFW/STAT

RF Wireless battery Stat

Wireless Control

Easy installation

Multifunctionality

Humidity Sensor

Introduction

The CSQ-RFW/STAT is a ZigBee temperature controller for wireless control of a specific series that can be used with a wiring centre, thermostatic radiator valve, boiler control module. In order to control CSQ-RFW/STAT via the OMNIE Home app (ONLINE mode), it must be installed together with the CSQ-GATEWAY Internet gateway (sold separately). From the application level it is possible to pair CSQ-RFW/STAT with other system elements, e.g. Smart Plug, OMNIE Smart Relay or window/door sensor. CSQ-RFW/STAT can be used locally without an Internet connection (OFFLINE mode).

Product Compliance

This product complies with the essential requirements and other relevant provisions of Directives 2014/30/EU, 2014/35/EU, 2014/53/EU and 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet address: www.omnie.co.uk/legal (((•))) 868.0-868.6MHz; <13dBm

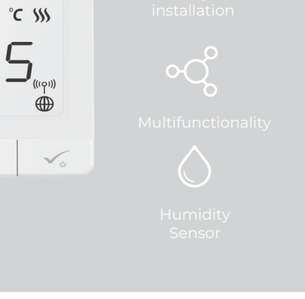
Safety Information

Use in accordance to national and EU regulations. Use the device as intended, keeping it in dry condition. Product for indoor use only. Installation must be carried out by a qualified person in accordance to national and EU regulations. Disconnect your equipment before cleaning it with a dry cloth.

Package Content:

1) CSQ-RFW/STAT Thermostat
2) Wall mounting plate
3) Self-adhesive mounting tape
4) Mounting screws
5) Manual instruction

Before you start:

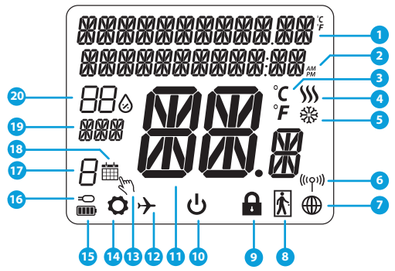


Symbols explanation:
S – volt-free contact
T – temperature sensor
S1,S2 Terminals:
- air or floor temperature sensor
- external volt-free contact to connect any ON/OFF switch or occupancy sensor (Hotel card)

Please note:

The ideal position to thermostat mounting is about 1,5m under floor level far from heating or cooling sources. Thermostat can't be exposed to sunlight or any extreme conditions like for example draft.

LCD Icon Description



1. Menu/Settings description + Clock
2. AM/PM
3. Temperature unit
4. Heating indicator (icon is animating when there is heating demand)
5. Cooling indicator (icon is animating when there is cooling demand)
6. RF Connection indicator
7. Internet connection indicator
8. Occupancy sensor (hotel card)
9. Key lock function
10. Standby mode icon
11. Current Temperature / Setpoint Temperature
12. Holiday mode
13. Temporary override mode
14. Settings icon
15. Baterry status indicator
16. External / Floor temp sensor indicator
17. Schedule program number
18. Schedule mode icon
19. Day indicator/ SET information
20. Current Humidity value

Buttons Description

Button	Function
☰	1) Menu button / Return button. 2) In the MAIN SCREEN: Press and hold for 3 sec to change the thermostat operating mode (Schedule mode / Permanent mode / Temporary override mode). 3) In the SETTINGS SCREEN: Press and hold for 3 sec to go back without saving the changes. 4) In the PAIRING SCREEN (in SYSTEM TYPE Menu): Press and hold for 3 sec to see other pairing options.
﹀	„Down" Button (Decrease parameter value/moving on the menu in 'DOWN' direction)
﹀	"Up" Button (Increase parameter value/moving on the menu in 'UP' direction)
✓	1) Press and hold for 3 seconds to POWER UP new device 2) "OK / Tick" Button (Confirm parameter value / Go to the next menu / Save settings) 3) In the MAIN SCREEN: Press and hold for 3 seconds to enter Standby mode 4) In the SETTINGS SCREEN: Press and hold for 3 sec to go back to the MAIN SCREEN & SAVE all the changes. 5) During PAIRING process – hold button for 3 seconds to POWER OFF or REBOOT the thermostat.
﹀ + ﹀	In the MAIN SCREEN - press and hold these buttons together for 3 seconds to LOCK / UNLOCK the Thermostat keys).

Compatibility with Other OMNIE devices:

CSQ-RFW/STAT can work in ONLINE or OFFLINE mode.
At first step you need to decide in which mode your thermostat will work.

ONLINE MODE

OMNIE Communications Gateway is CONNECTED TO THE INTERNET You can configure and use all your devices in the OMNIE Home App

Download the OMNIE Home App on your iOS or Android device for remote access to your OMNIE equipment.

OMNIE Home App

GET IT ON Google Play

Download on the App Store

OFFLINE MODE

OMNIE Communications Gateway is NOT CONNECTED TO THE INTERNET - You can use your devices locally without the SmartHome App. Gateway works in this mode as standard ZigBee coordinator.

Compatibile devices:

CSQ-RELAYRF
OMNIE Smart Relay
*Only with Online Mode

Wiring Centre for 8-zone underfloor heating (UFH).

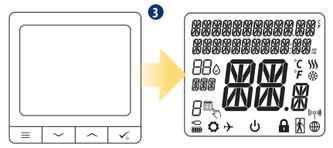
TRV
(Thermostatic Radiator Valve) with wireless communication.

First Power Up Sequence

Please note:

For easier installation, please make sure you have already added other devices to your ZigBee network, such as Underfloor Heating Control Box or Radiator heads (TRV's), etc.

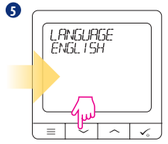
1 Remove the protection foil..



2 To power on the Thermostat hold ✓ button for 3 seconds..

3 .....display will show all icons....

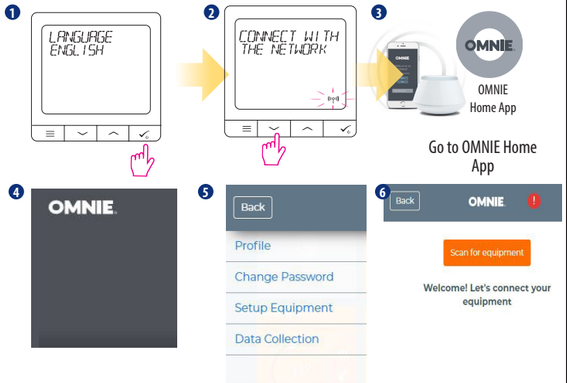
4 ...then thermostat will display the software version...



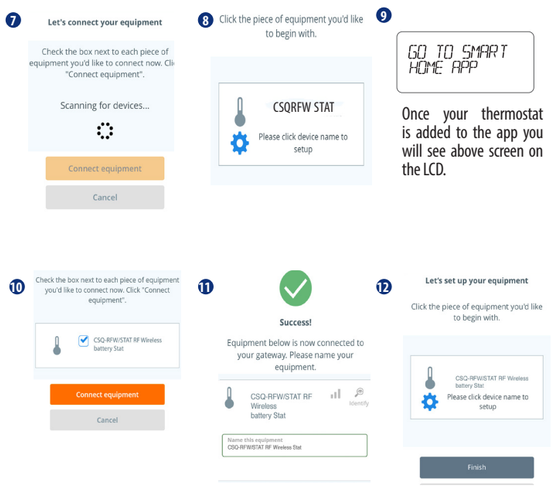
5 Now, choose your language by „﹀" or „﹀" buttons. Confirm your language by ✓ button.

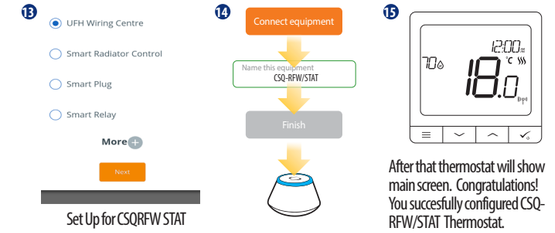
Installation in ONLINE mode

After Language selection follow below steps to add your device to the OMNIE Home App and pair with other devices:



Go to OMNIE Home App





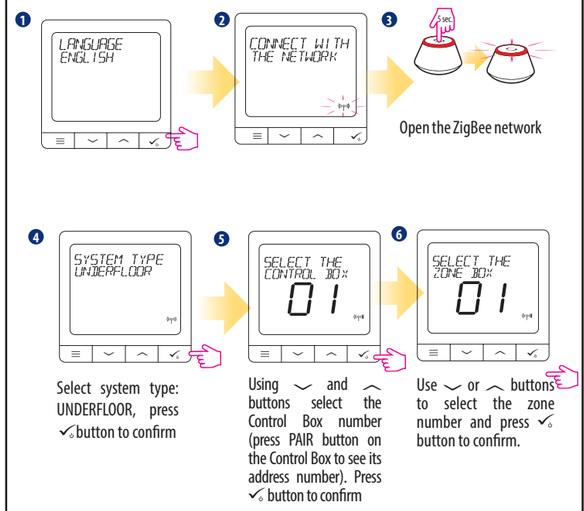
13 Set Up for CSQRFW STAT

14

15 After that thermostat will show main screen. Congratulations! You succesfully configured CSQ-RFW/STAT Thermostat.

Installation in OFFLINE mode

Pairing with Wiring Centre / Control Box (Install the Wiring Centre / Control Box according to the instructions included with product)



Open the ZigBee network

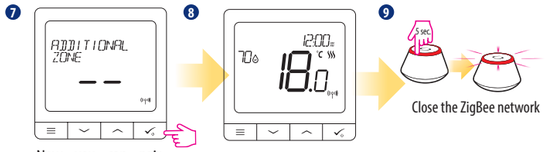
Select system type: UNDERFLOOR, press ✓ button to confirm

Using ﹀ and ﹀ buttons select the Control Box number (press PAIR button on the Control Box to see its address number). Press ✓ button to confirm

Use ﹀ or ﹀ buttons to select the zone number and press ✓ button to confirm.

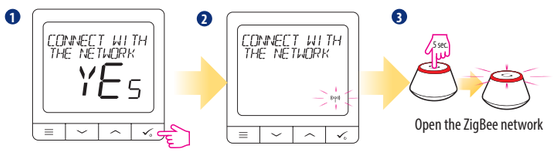
OMNIE Limited
Unit 18 Apple Lane
Exeter
EX2 5GL
United Kingdom

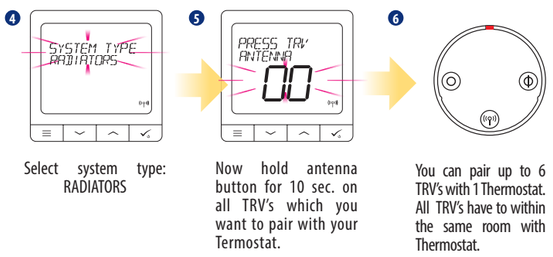
Technical support can be found at:
Customer.services@omnie.co.uk
01392 36 36 05



Now you can pair your thermostat with additional zones. Select one more zone or finish the pairing process by ✓ button.

Pairing with a Thermostatic Radiator Valve

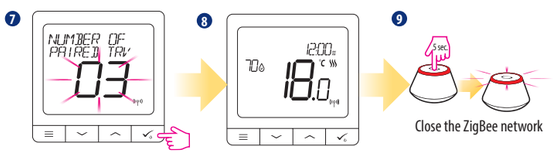




Select system type: RADIATORS

Now hold antenna button for 10 sec. on all TRV's which you want to pair with your Termostat.

You can pair up to 6 TRV's with 1 Thermostat. All TRV's have to within the same room with Thermostat.



On the LCD you will see the number of paired TRV's. Once all TRV's are paired - press ✓ button to finish the pairing process.

CSQ-RFW/STAT Full menu structure ☰

Main menu

Schedule settings	DISABLE MO-FR+SA-SU MO-SU SINGLE DAYS
User settings	TIME/DATE HOLIDAY MODE THERMOSTAT CALIBRATION SHOW/HIDE DISPLAY HUMIDITY SHOW/HIDE DISPLAY FLOOR STANDBY TEMP SETPOINT HEAT/COOL RESET USER SETTINGS
Admin settings	TEMPERATURE SCALE DISPLAY TEMPERATURE RESOLUTION [1.] HEAT CONTROL ALGORITHM [2.] COOL CONTROL ALGORITHM S1/S2 INPUT [3.] MINIMUM SETPOINT MAXIMUM SETPOINT VALVE PROTECTION [4.] MINIMUM TURN OFF TIME [5.] OPTIMISATION FEATURE [6.] COMFORT WARM FLOOR [7.] PIN CODE DEVICE INFORMATION [8.] FACTORY RESET [9.]
Language	ENGLISH DANISH POLISH ...

Short description of some selected functions (all functions are described in the full version of the CSQ/RFW-STAT manual):

1. **DISPLAY TEMP RESOLUTION:** This function determines the resolution of the displayed temperature (0.5°C or 0.1°C). Temperature unit
2. **CONTROL ALGORITHM:** This function defines how to control the room temperature. Available options are: ITLC for Underfloor Heating / Radiators / Electrical Heating (that's advanced algorithm for precise maintenance of room temperature), hysteresis +/-0.5°C or +/-0.25°C.
3. **S1/S2 INPUT:** A floor sensor, an external temperature sensor or an occupancy sensor can be connected to the S1/S2 input of CSQ-RFW/STAT. Additionally, by connecting a NO type of ON/OFF voltage-free contact, you can use this input as a OneTouch rules trigger (programmed in the OMNIE Home App) or as a Heat/Cool changeover.
4. **VALVE PROTECTION:** This function activates all actuators once a week for 5 minutes (in summer, this function helps to prevent the actuators stuck).
5. **INTERNAL RELAY (COM/NO):** Internal relay activation or deactivation with COM/NO outputs use. Default is enable.
6. **MIN TURN OFF TIME:** Minimum switch-off time (thermostat will not send the signal for heating/cooling more often than specified in this parameter)
7. **OPTIMISATION FEATURE:** Optimum Start and Optimum Stop functions are energy saving feature that makes thermostat most cost effective (in combination with ITLC control algorithm).
8. **COMFORT WARM FLOOR:** This function helps to keep the floor warm, even if the room is warm enough and there is no need to turn on the heating. User can select 3 levels of warm floor feature. Please note it is not an economy feature, as your heating system may be ON even if there is no heating demand from the room thermostat. It is COMFORT feature which keeps your floor warm all the time.
9. **DEVICE INFORMATION:** In this menu user can check: Software Version, RF range value, Paired devices or also user can activate Identification mode. **FACTORY RESET: Here you can RESET your device to factory settings. After successfull reset device will be removed from ZigBee network and you will need to add / pair your device again.**

CSQ-RFW/STAT, OMNIE Wireless Thermostat (RF)

Power Supply	Built-in Li-Ion 3,7V Battery
Charging voltage (no charger included)	Micro-USB 5V DC, min 0,5 A
Temperature range	5-40°C
Display temperature accuracy	0.5°C or 0.1°C
Control algorithm	ITLC SPAN (±0.25°C / ±0.5°C)
S1-S2 Input (multifunctional input)	Floor temperature Air temperature Occupancy sensor One Touch Changeover (heating/cooling)
Communication protocol	ZigBee 2,4GHz
Mounting	Surface mounting
Working temperature	0-45°C
IP protection class	IP30
Dimensions [Width x Height x Deep]	86 x 86 x 11 mm