

Product introduction

The EASI Controller is user-friendly, practical controller with an included wireless receiver. It makes controlling far-infrared panels simple but can also be used with:

- Boilers
- Oil, gas, warm water heating and electric space heating
- Actuators of floor heating systems or radiators
- Circulating pumps
- Heat pumps



Technical Specification:

Power source	SAS918WHB-0-DF	2 AA size 1.5V alkaline batteries
	SAS2010DE Receiver	100-240VAC 50/60Hz
Room temperature setting range	5°C~35°C	
Accuracy	0.1°C	
Ambient temperature-operation	0°C~+50°C	
Ambient temperature-storage	-10°C~+60°C	
Dimensions	Controller: 85 mm × 75 mm × 23mm	
	Wireless Receiver: 113 mm × 82 mm × 30 mm	
Radio frequency	868MHz(FSK)	
Frequency range	100m (unobstructed environment)	
Colour	White	

Main Features:

- ★ Smart shape, easy to operate
- ★ Wireless thermostat, no programming
- ★ Battery powered
- ★ Locking function
- ★ Can be used with different systems

Caution!

The wireless receiver must be only be installed by a qualified electrician in compliance with the circuit diagram enclosed with these instructions to the latest regulations.

To achieve protection class II, adequate installation measures must be taken. The wireless receiver which can be installed separately, is designed exclusively for temperature control in dry and closed rooms and normal living environments. This electronic device was built to standard EN60730-1; it operates per working 1C principle.

Installation

When Installing This Product:

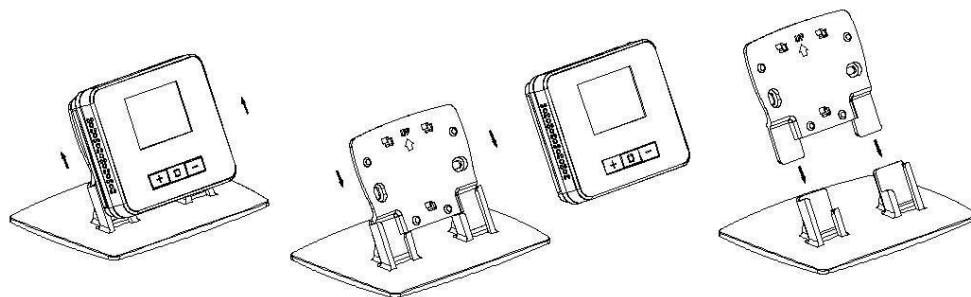
1. Please read these instructions carefully. Failure to follow the instructions can damage the product or cause a safety hazard.
2. Check the ratings given in the instructions to make sure the product is suitable for the application.
3. The installer must be a qualified electrician.
4. After completing installation, use these instructions for using the controller and receiver.

Installing the Thermostat:

This thermostat can be mounted on to the baseplate;

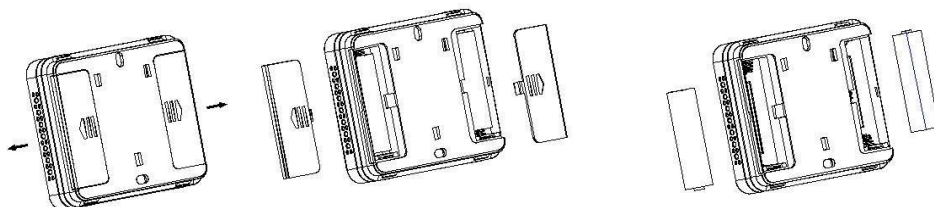
Please note that the thermostat can only be battery powered;

Please place the thermostat in a location where it will be able to control the room temperature but away from the direct influence of radiators, sunlight and any other appliances giving off heat.



- A. Take out the thermostat
- B. Put the thermostat into the shelf of the back-plate
- C. Insert the shelf of the back-plate

Change battery:



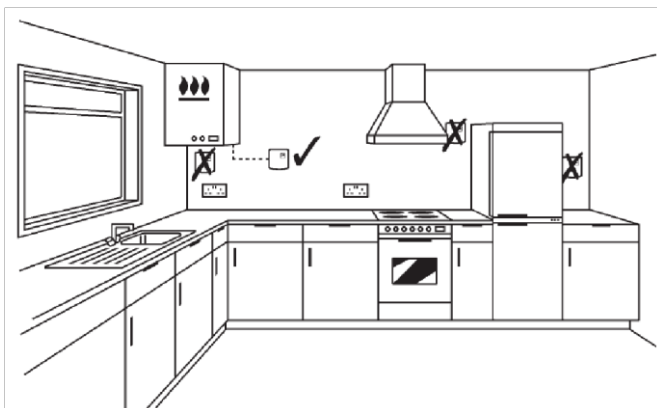
a. Take out the cover of the battery

b. Remove the battery

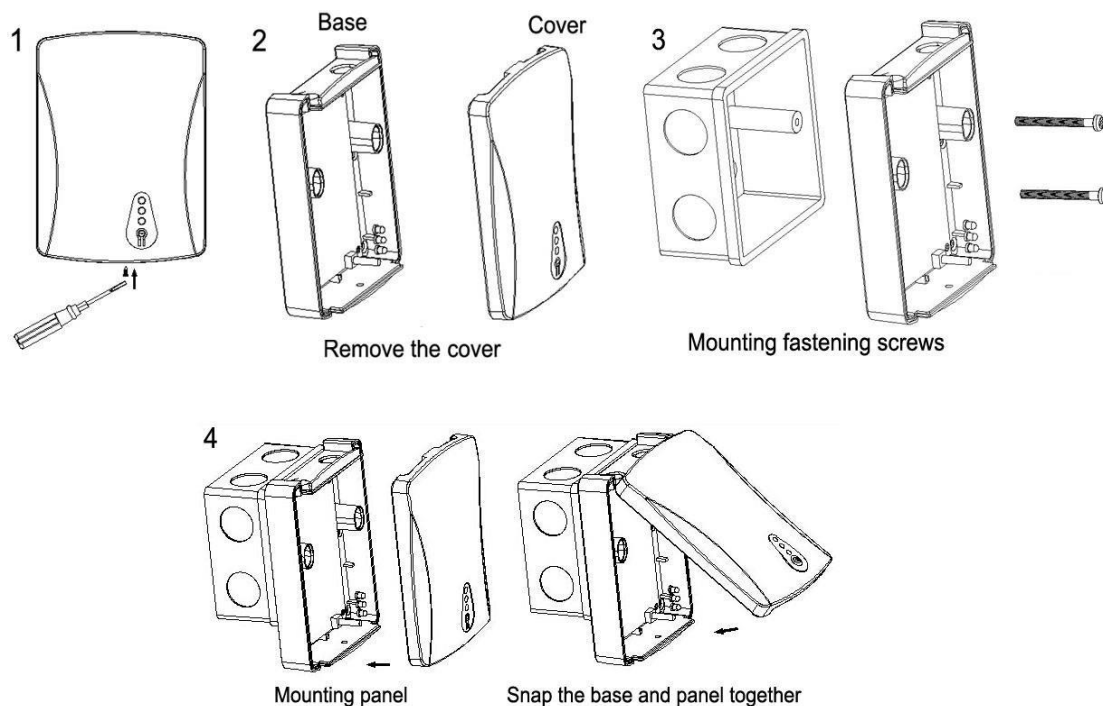
Installing the Receiver:

Select a position where it is away from the direct influence of fire or sunlight, other appliances giving off heat.

For best performance, the receiver should be installed in an open space; at least 30cm distance from any metal objects including back boxes and boiler housing. It should not be mounted on a metal back box.



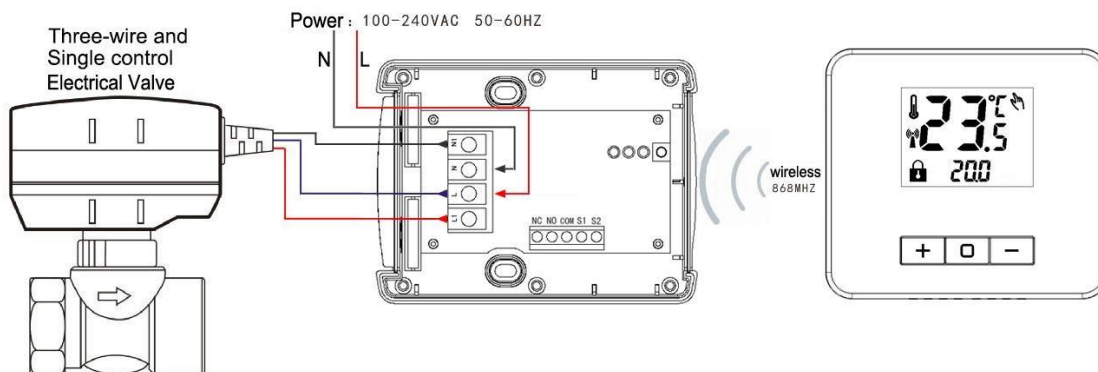
Receiver Wall Installation:



Bring the thermostat to a distance 2-3 m from receiver and initiate **RF Communication Test**. This confirms that receiver is wired correctly and that both devices are bound (linked) to each other. If this test does not work, the 2 units must be reset and bound to each other by following **Description of receiver connection** for **Binding / Re-binding**.

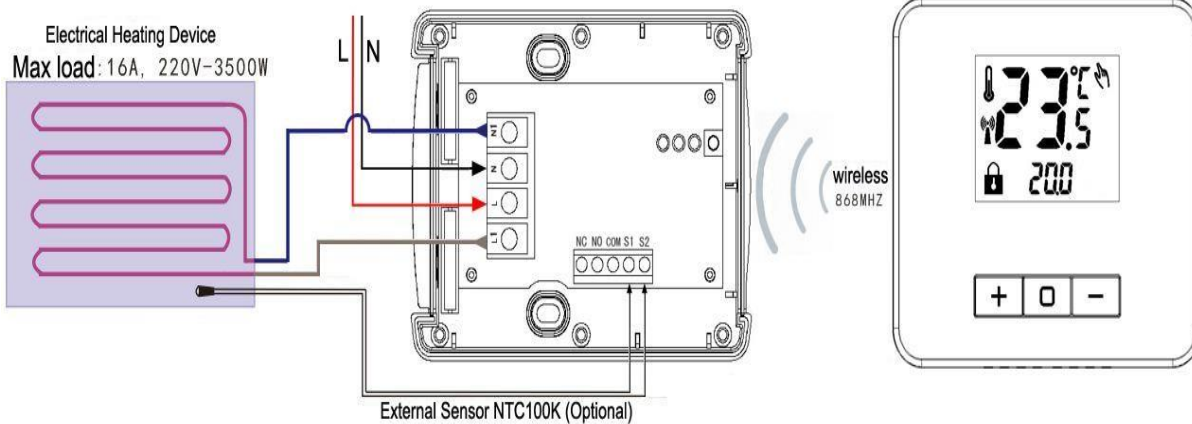
Wiring Diagram:

Electrical valve wiring system:



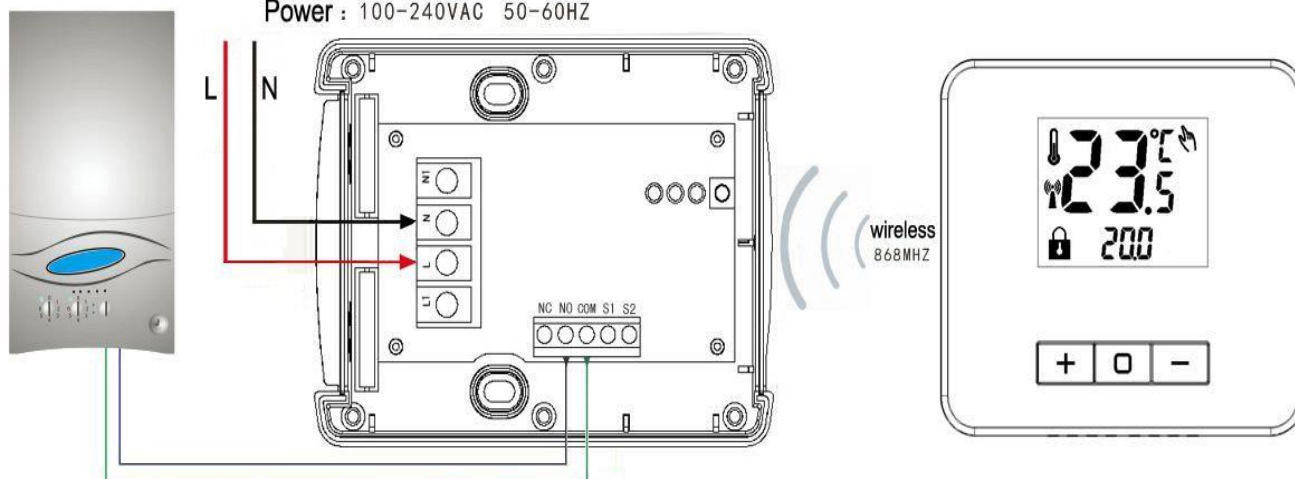
Electrical heating wiring system:

Power : 100-240VAC 50-60HZ

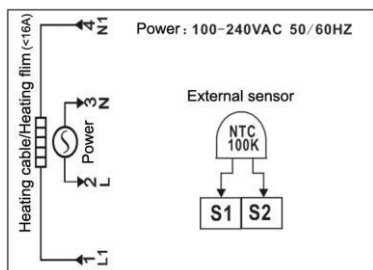


Boiler wiring system:

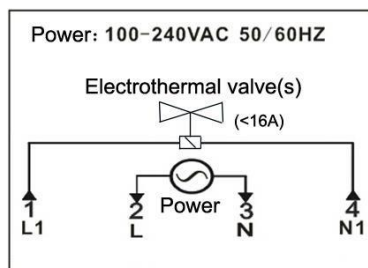
Power : 100-240VAC 50-60HZ



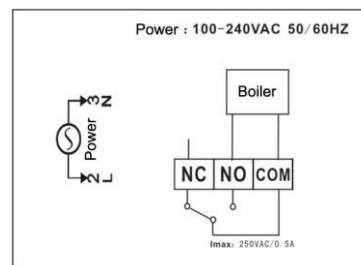
Electric heating system



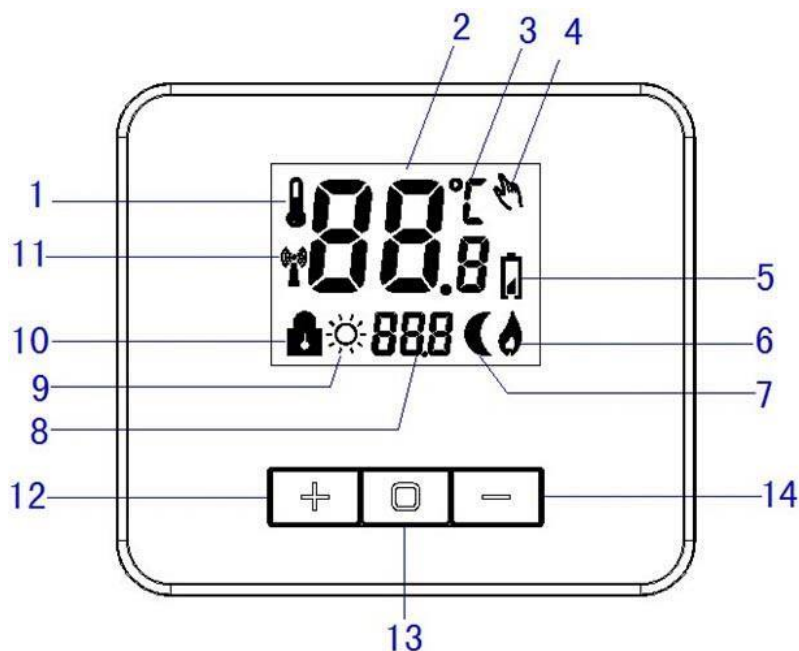
Water heating system



Boiler heating system



Keyboard and display description



- 1) Room temperature
- 2) Temperature display area

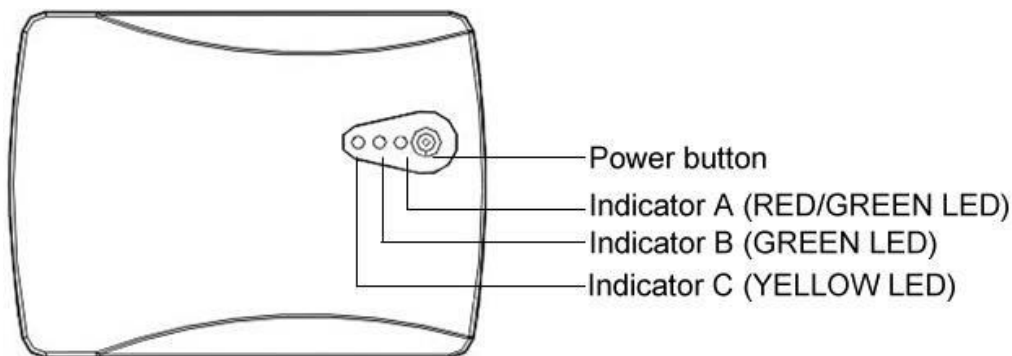
- 3) Temperature measurement
- 4) Manual operation mode
- 5) Low battery reminder
- 6) Heating mode
- 7) ECO mode
- 8) Setting temperature display area
- 9) Comfort mode
- 10) Child lock sign
- 11) Wireless RF operate sign
- 12) 'Up' button
- 13) Switch button/ Configuration menu setting button
- 14) 'Down' button

Note: While the thermostat is running, if you press and hold down the **—** **+** simultaneously for a couple seconds, then the **🔒** icon will show up, this means that the keyboard will not respond for any key pressing/alterations, to unlock the thermostat, press hold down again the **—** and **+** icons simultaneously for a couple seconds again.

1. Wireless RF connected sign only shows when you are connected to the receiver.
2. If the built-in sensor has broken or been damaged the screen will show ER2.

Description of receiver connection

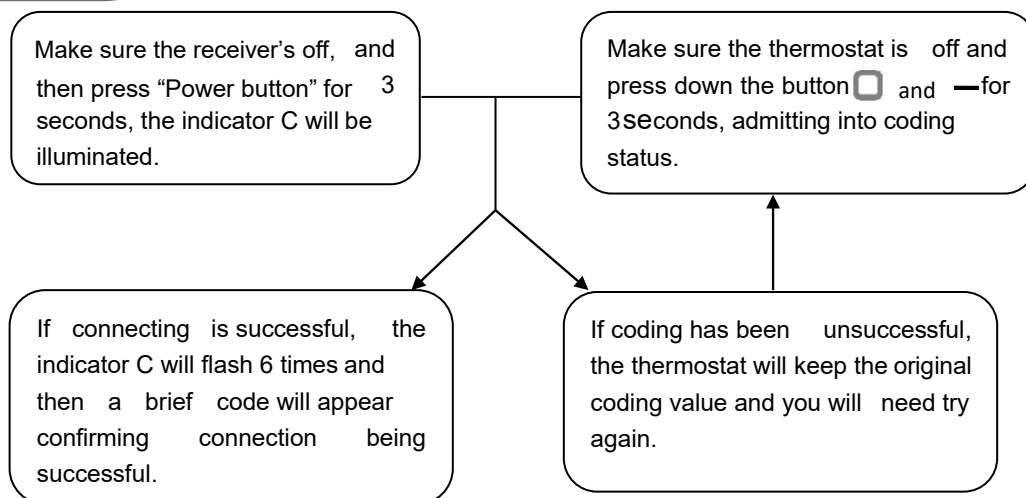
Operation Description:



Thermostat Binding/Connecting:

Receiver

Thermostat

**Functional Status Indicators:**

'Heating mode': Indicator B will be lit up which means heating mode is on.

'Memory function': In the event of a power failure, the memory function will remember the previous settings when coming on again.

Forced output: Make sure the receiver's off and then press down the "Power button" for 8 seconds. Indicator A will light up and if you want to exit just simply press the "power button" once more.

Transmitting signal: When an instruction has been inputted into the controller, indicator C will flash 2 times on the receiver that means the transmitting signal is communicating successfully.

Temperature Limitation:

When the temperature is below 5°C, the forced output will start to act as anti-frost protection. When the temperature is up to 8°C, the forced output will be stopped. In the event indicator B is rapidly flashing, this means the external sensor has been broken.

Setting the temperature limit - When the receiver has been running, press down the "Power button" for 3 seconds, then the indicator A (Red LED) will change to the green LED flashing. This now means you can set the upper temperature limit for the controller.

- **Limit 30°C:** The green LED (indicator B) will be flashing.
- **Limit 40°C:** The yellow LED (indicator C) will be flashing.
- **Limit 55°C:** The green LED (indicator B) and the yellow LED (indicator C) will be both flashing.

To then confirm your selection - Press the "Power button" to select the option which is one of the three modes.

Save and exit - 1. Press down the “Power button” for 3 seconds, and then the receiver will save the settings and exit automatically.

2. If there has been no button pressed within 8 seconds, the receiver will save the settings and exit automatically

Configuration menu

When the thermostat is turned off, hold down the “” button for 5 seconds to enter the configuration menu. Press “” to toggle the menu items and by using “” or “” buttons you can change your preferences.

Exit and save your settings by pressing down “” for 5 seconds. If no buttons are pressed in 20 seconds, the thermostat will exit the menu automatically.

Factory Default Reset: Push the “” and “” buttons simultaneously for 3 seconds, the screen will show “dEf”.

Explanations of each option is as followed chart:

Item	Press button	Displayed (factory default)	Press ,   to select	Description
1		30.0 ^{°C}	20.0 ^{°C} 35.0 ^{°C}	Select maximum temperature
2		05.0 ^{°C}	05.0 ^{°C} 20.0 ^{°C}	Select minimum temperature
3		16.0 ^{°C}	10.0 ^{°C} 20.0 ^{°C}	Select ‘ECO’ setting temperature
4		21.0 ^{°C}	20.0 ^{°C} 25.0 ^{°C}	Select ‘Comfort’ setting temperature

				Backlight display
6				Adjust displayed temperature to suit personal needs (calibration)
7				Proportional output and constant temperature output
8				Select the control accuracy (it is only valid with the HP control mode)
9				Valve-protect function

1) Select maximum temperature set point

This feature provides a maximum set point temperature. The default setting is 35°C, and it can be changed between 20°C to 35°C.

2) Select minimum temperature set point.

This feature provides a minimum set point temperature. The default setting is 5°C, It can be changed between 5°C to 20°C.

3) Select ECO setting temperature

Economy Temperature used for energy saving periods e.g. during the night (🌙)

4) Select comfort setting temperature

Comfort Temperature used for comfort periods e.g. during the morning/after work (☀️)

5) Backlight display

To either have the backlight display on or off.

6) Adjust displayed temperature to suit personal needs

You can adjust the room temperature display up to 5 degrees higher or lower. This works well to calibrate to either infrared heating panels or in accordance with other room thermostats present. The current or adjusted room temperature will be displayed on the right side of the display.

7) Select control mode for system

 Proportion output is meant for living environments, the room temperature will always be increased or decreased subtly making the user feel comfortable, neither too cool or too hot.

 Constant temperature on/off output between -0.5°C to 0.5°C.

8) Select the control accuracy reading

It is for screen display of the temperature accuracy (it is only valid on the HP control mode). The factory default setting is 0.5°C.

9) Valve-protect function

Function about valve Anti-blocking, it is used for protecting valve, if no output more than 24 hours, it will be forced to open 30s.