



User manual



RF Smart Thermostat for wall-hung boiler

RFST-W

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Please read this user manual before using the product and keep it safe for future reference.

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Got a question or need help?

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support@electriQ.co.uk

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Unit 2A, Trident Business Park, Neptune Way,
Leeds Road, Huddersfield, HD2 1UA

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SAFETY INFORMATION

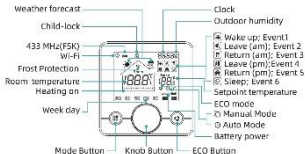
Please read the following safety information carefully before using the device.

- Use the product only for its intended purpose. Do not modify or tamper with the device.
- Keep out of reach of children.
- Isolate mains power before installation, maintenance, or servicing.
- Installation must be carried out by a qualified electrician in accordance with national wiring regulations.
- Incorrect installation or wiring may result in electric shock, fire, or malfunction.
- Do not use the device if it is damaged or the wiring is incorrect.
- Switch off the boiler/system before installation.
- Only qualified personnel should connect the thermostat to the boiler, and installation must comply with local gas regulations.
- Ensure compatibility with the boiler before installation, and do not operate the system if faults are detected.
- Ensure the device is securely mounted and installed away from water, heat sources, direct sunlight, and strong electromagnetic interference.
- Avoid installation near metal objects or areas that may affect RF signal performance.

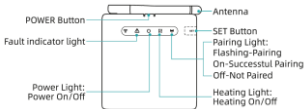
- Use only the specified battery type and insert with correct polarity.
- Do not mix old and new or different types of batteries, and do not recharge non-rechargeable batteries.
- Remove batteries if the device will not be used for a long period, and dispose of them in accordance with local regulations.
- Do not modify RF or wireless components and use only manufacturer-approved accessories.
- RF signal may be affected by walls, metal objects, or other sources of interference.
- For indoor use only (if applicable); do not expose to water, high humidity, or extreme temperatures.
- Do not use in explosive or flammable environments, and avoid excessive dust or vibration.
- Disconnect power before cleaning or servicing; do not open or attempt to repair the device yourself.
- Clean only with a dry cloth, and contact qualified personnel for servicing.
- Do not dispose of the product with household waste; remove batteries and recycle in accordance with local regulations.
- Heating may not operate if the thermostat or RF signal fails.

PRODUCT OVERVIEW

RF Thermostat



RF Receiver



PARTS LIST



Thermostat



Receiver



Manual



Thermostat
Bracket

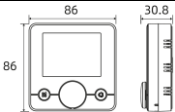


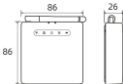
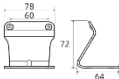
USB cable



Screw pack

DIMENSIONS

Thermostat	 The diagram shows the thermostat from the front and side. The front view is a square with a width of 86 and a height of 86. The side view shows a thickness of 30.8.
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Receiver	
Thermostat bracket	

INSTALLATION

NOTE: The distance between the thermostat and receiver must not exceed 200m outdoors and 50m indoors. The maximum distance depends on the actual network conditions.

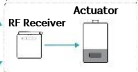
1. Mounting bracket installation



NOTE:

- Open areas: ≤ 200 m
- Indoors: ≤ 50 m

2. Wall mount installation



THERMOSTAT INSTALLATION

MOUNTING BRACKET

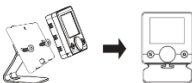
1. Remove the front cover by inserting a flat-head screwdriver into the slot at the bottom and gently prising it off.



2. Secure the backplate to the mounting bracket using two suitable screws.



3. Refit the front cover, ensuring it clicks firmly into place.

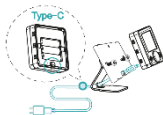


POWERING THE RF THERMOSTAT

There are two power supply methods for the thermostat. We recommend using both methods at the same time.

1) USB powered (Type-C interface)

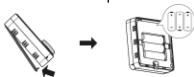
Pass the Type-C cable through the notch in the bracket and use it to power the device.



2) 3 × 1.5 V alkaline AA batteries

NOTE:

- It is recommended to use three new LR6 AA batteries.
- Please ensure the batteries are installed in the correct orientation.
- Remove the back cover by inserting a screwdriver into the slot at the bottom, then place the batteries into the compartment.



WALL MOUNT

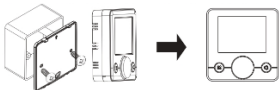
1. Remove the front cover by inserting a flat-head screwdriver into the slot at the bottom and gently prising it off.



2. Secure the backplate to the wall using two suitable screws.



3. Refit the front cover, ensuring it clicks firmly into place.



RECEIVER WALL MOUNT INSTALLATION

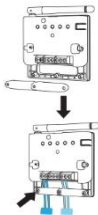
Safety Notice: Important Information

- Installation must only be carried out by a qualified electrician.
 - Isolate the power supply before commencing wiring.
 - Verify that the voltage specifications are correct.
 - Comply with all applicable local electrical regulations.
1. Check the type of screws located at the bottom of the unit. Using an appropriate screwdriver, carefully loosen and remove them. Gently prise open the casing along the designated seam and remove the front cover.
 2. Once opened, connect the wires to the terminals as shown in the wiring diagram. You can select from the following wiring options.

WIRING OPTIONS

SURFACE WIRING

- Remove the terminal plate
- Unscrew the mounting screws and keep them safe.
- Connect the wires
- Ensure the wires are long enough, strip and clean the ends, then insert them into the marked terminals.
- Refit the terminal plate.
- Reposition the plate, secure it with the original screws, and check that all connections are firmly tightened.

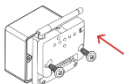


CONCEALED WIRING

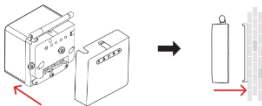
- Ensure the wires are of sufficient length.
- Strip and clean the wire ends.
- Insert the wires into the marked terminals.
- Check that all connections are secure.



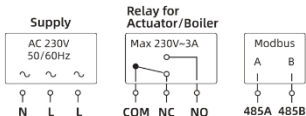
- 1) Once the terminal wiring is complete, secure the back cover to the wall box using two mounting screws.



- 2) Reattach the front cover to the back cover using the clips, ensuring it is firmly secured.

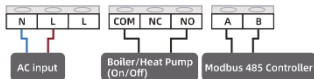


WIRING DIAGRAM FOR THE RF RECEIVER

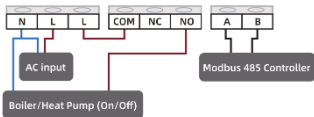


NOTE: The Modbus (A/B) terminals are intended for professional system integration only. These connections are not required for standard installation. For details of the communication protocol, please contact the warranty provider to obtain the Modbus Protocol Manual.

UNPOWERED WIRING DIAGRAM (VOLT-FREE CONTACT)



POWERED WIRING DIAGRAM (LIVE OUTPUT)



Altitude Operating Specifications:

- 0-2500 m: Thermostat operates at 100% of rated capacity.
- 2500-4200 m: External load limited to 80% of rated capacity.

PAIRING THE THERMOSTAT

MANUAL PAIRING

RECEIVER: When powered on, press and hold the “SET” button for 3 seconds until the pairing indicator (RF symbol) flashes. The receiver will then enter pairing mode.

THERMOSTAT: When powered off, press and hold the “Dial” button for 3 seconds. The thermostat will enter pairing mode.

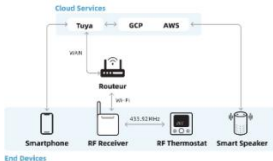


Pairing Successful

- A beep will sound.
- The thermostat will display the pairing success icon “(x)”.
- The receiver’s “(x)” indicator light will remain on.

IMPORTANT: This product supports one-to-one pairing only (one thermostat to one receiver). If a new pairing is initiated while an existing pairing is active, the new thermostat will replace the previous pairing configuration.

NETWORK TOPOLOGY DIAGRAM



MOBILE APP CONNECTIVITY

1. Ensure your phone is connected to a 2.4GHz Wi-Fi Network
2. Download and install the mobile app.



Scan the QR code above or search for "Smart Life" in the App Store or Google Play to install the Smart Life app.

3. PAIRING THE DEVICE

ENTER NETWORK SETUP MODE

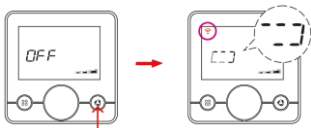
Before you begin:

- Ensure the RF receiver is correctly wired and switched on.
- Ensure the thermostat and receiver are already connected before starting the Wi-Fi setup.

Thermostat:

- When OFF (screen shows "OFF"), press and hold the "⏻" button for 3 seconds.

The "⏻" and "📶" icons will flash → enter network setup mode.



ADD DEVICE VIA MOBILE APP

NOTE: Please switch on your phone's Bluetooth and Wi-Fi in advance. Also, ensure that your smartphone's operating system allows the Smart Life app to access Bluetooth.

1. Open the app's "Home" screen, tap "+" in the top right-hand corner, and select "Add Device".
2. The system will automatically search for and find the device, then tap "Add".



3. Select the 2.4 GHz Wi-Fi network and enter the password, then click "Next".
4. Wait a moment for the device to be added successfully, then click "Done" to finish the installation.

OPERATION

THERMOSTAT INSTRUCTIONS

POWER CONTROL

Press the “Dial Button” briefly to turn the device on or off.

TIME SETTINGS

- **Entering Setting Mode**

1. Ensure the device is switched on.
2. Press and hold the “” button for 3 seconds to enter the time setting mode.
3. Rotate the dial to adjust the set temperature.

- **Adjusting Settings**

Press the “” button to select the item (weekday or clock), then rotate the “Dial Button” to adjust the value.

- **Saving Settings**

Press the “Dial Button” once to confirm.

TEMPERATURE SETTINGS

Rotate the dial to adjust the set temperature.

PAIRING MODE

1. Ensure the device is switched off.
2. Press the “Dial Button” for 3 seconds to enter pairing mode.
3. A loading animation will be displayed to indicate successful entry into pairing mode.

WiFi SETUP

When the device is off, press and hold the “” button for 3 seconds to enter the app network setup mode.

CHILD LOCK

Press and hold both the “” and “” buttons for 3 seconds simultaneously to enable or disable the child lock.

LOW BATTERY REMINDER

When the voltage drops below 20%, the battery icon “” will flash to remind the user to replace the batteries.

BACKLIGHT CONTROL

This function is only available when the device is connected via USB Type-C.

ACCESSING BACKLIGHT SETTINGS

- While the device is powering on, press and hold the “Dial Button” for 3 seconds to enter the backlight control settings, then adjust as follows:
- Select the desired item by pressing “”, and set the on/off time and backlight by rotating the “Dial Button”.
- Finally, confirm by briefly pressing the “Dial Button”.

WEEKLY PROGRAMMING SETTINGS

For weekdays and weekends, up to six heating events with individual temperature settings can be saved using the thermostat.

Press and hold the “” button for 3 seconds to enter the weekly programming setting. Adjust the settings as follows:

- Select the item to be modified by pressing the “” button.
- Choose the day of the week, time, or temperature by rotating the dial button.

- Confirm your selection by briefly pressing the dial button.

Events		Symbols	Time		Temperature	
			Default value	Modify	Default value	Modify
Weekdays	1		06:00	Rotate the knob	20 °C (68 °F)	Rotate the knob
	2		08:00		15 °C (59 °F)	
	3		11:30		15 °C (59 °F)	
	4		12:30		15 °C (59 °F)	
	5		17:00		22 °C (72 °F)	
	6		22:00		15 °C (59 °F)	
Weekends	1		08:00		20 °C (68 °F)	
	2		22:00		15 °C (59 °F)	

NOTE:

- The backlight brightness in standby mode can be adjusted (1%–100%) via the Smart Life app.
- The auto-off backlight feature can be enabled and customised with preferred time periods.

RF RECEIVER OPERATION INSTRUCTIONS

Status	Steps	Display state
Power on/off	Press "Power Button" shortly	"  Power light is always on/off.
Wi-Fi config	During power-off, press "Power Button" for 3 seconds	"  Network indicator light flashes.
	Wi-Fi config completion	"  Network indicator light illuminates with buzzer alarm.
	No operation in 3 min, it will exit the Wi-Fi config	"  Network indicator light is off.
RF Pairing	During power-on, press the "SET Button" for 3 seconds	"  Pairing light flashes.
	Press the "SET Button" short, it will exit the RF Pairing state	"  Pairing light is OFF.
	RF Pairing success	"Buzzer beeps  "  pairing light is ON"

Restore factory settings	During power-off, press the "SET Button" for 3 seconds	"       "Five lights flash once at the same time.
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ADVANCED SETTINGS FOR RF THERMOSTAT

CONFIGURABLE VIA APP

The settings can be accessed and modified using the mobile app.

Function	Setting Range (Rotate the dial Button)	Default Value
Frost Protection	ON: Frost Protection Enable OFF: Frost Protection disable	OFF
Temperature Unit	°C/°F	°C
Battery Power	Real-time battery percentage display	-
Temperature Calibration	-9.9 ~ 9.9 °C (-9.9 ~ 9.9 °F)	0 °C
Temperature Hysteresis	0.1 °C ~ 10 °C (0.2 °F ~ 10 °F)	0.5 °C

CONFIGURABLE VIA THE DEVICE

NOTE: For professional technicians only.

When the power is off, press and hold the " button for 3 seconds to enter Advanced Settings

mode. Press the  button again to scroll through the available settings. Briefly press the dial button to confirm your selection.

Code	Meaning	Press 'Dial Button'	Default Value
01	Temperature calibration	-9.9 ~ 9.9°C (-9 ~ 9°F)	0°C
02	Switch deviation	0.5 ~ 10°C (1 ~ 10°F)	0.5°C
03	Temperature Upper Limit	5 ~ 95°C (41 ~ 199°F)	50°C
04	Temperature Lower Limit	5 ~ 47°C (41 ~ 117°F)	5°C
05	Frost Protection	ON: Frost Protection On OFF: Frost Protection Off	OFF
06	Temperature unit	°C / °F	°C
09	Weekly programming setting	12345: 5/2 week mode 123456: 6/1 week mode 1234567: 7/0 week mode	12345
12	Child-lock	00: Child-lock inactivate when	00

		screen off, lock all when child-lock activate 01: Child-lock activates when the screen is off, locks all when child-lock is activated 02: Child-lock activates when the screen is off, locking all except Fan Speed, Up and Down when child-lock is activated 03: Child-lock activates when the screen is off, locks all except Power on/off when child-lock is activated	
13	Boot Status	00: Power OFF 01: Power ON 02: The last status before power loss	02
19	Restore Factory Settings	Press "⏻" for 3 seconds to reset	-

VOICE CONTROL

The following is a partial list of available voice commands.

NOTE:

“SCENE_NAME” refers to the scene name and
“DEVICE_NAME” refers to the default device name.

Both can be customised.

Please ensure that the temperature units are consistent between the device and the smart speaker.

AMAZON ALEXA: “Alexa,”

Turn on SCENE_NAME

Set DEVICE_NAME to on

Set DEVICE_NAME to off

What is the temperature of DEVICE_NAME?

Set DEVICE_NAME to 26°C

Decrease DEVICE_NAME temperature

Increase DEVICE_NAME temperature

GOOGLE HOME: “OK Google,”

Turn on SCENE_NAME

What temperature is DEVICE_NAME set to?

Set DEVICE_NAME to 26°C

Decrease DEVICE_NAME temperature

Increase DEVICE_NAME temperature

CLEANING AND MAINTENANCE

To ensure the proper operation and longevity of your device, please follow the guidelines below:

CLEANING

- Remove the batteries and disconnect the power supply before cleaning.
- Always disconnect the device from the network before cleaning.
- Clean the outer surface of the device using a soft, dry cloth.
- Do not use water, cleaning sprays, solvents, alcohol, or abrasive cleaning agents, as these may damage the surface or internal components.
- Avoid allowing moisture to enter any openings or seams of the device.

MAINTENANCE

- Check the device periodically to ensure it is securely mounted and operating correctly.
- Keep the device away from heat sources, direct sunlight, and high humidity to avoid affecting the sensor's performance and lifespan

- Ensure the device remains free of dust or debris that could block air circulation around the temperature and humidity sensors.
- Replace all batteries if the device shows low power or fails to operate properly.
- If the device is not in use for an extended period, remove the batteries to prevent leakage and potential damage.

TECHNICAL SPECIFICATION

RF THERMOSTAT

Power Supply	3 x LR6/AA(1.5V) Alkaline Batteries / USB powered (Type-C interface)
Ambient Temperature	-5 ~ 50 °C
Temp. Setting Range	5 ~ 95 °C
Temp. Calibration	-9.9 ~ 9.9°C
Wireless Frequency	433.92 MHz (FSK)
RF Transmission Range	Open areas: ≤ 200 m Indoors: ≤ 50 m
Protection Level	IP20

RF RECEIVER

Power Voltage	AC 100~240 V; 50/60 Hz
Power Consumption	≤1W
Ambient Temperature	-5~50 °C
Wireless Frequency	433.92 MHz (FSK)
RF Transmission Range	Open areas: ≤ 200 m Indoors: ≤ 50 m
Wi-Fi	IEEE 802.11b/g/n
Wi-Fi Connection Distance	Open areas: ≤ 100 m Indoors: ≤ 30 m
Protection Level	IP20

PSTI STATEMENT OF COMPLIANCE

Description: RF Smart Thermostat for wall-hung boiler.

Model Number: RFST-W

Manufacturer: ElectriQ, 2A Trident Business Park, Leeds Road, Huddersfield, HD2 1UA

PSTI Contact: TiSecurity@buyitdirect.co.uk

We have prepared this statement of compliance and can confirm that this product is compliant with the deemed compliance conditions in Schedule 2 of The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023.

Duration of security updates: 03/31/2031. This date is correct at the time of printing, but we may extend it. Please visit www.electriQ.co.uk for the latest information and details of our PSTI compliance.



Richard Leach

Compliance and Quality Manager, Buy It Direct,
Huddersfield

16th April 2026

EU DECLARATION OF CONFORMITY

Hereby, ElectriQ declares that the RF Smart Thermostat for wall-hung boiler is in compliance with Directive 2014/53/EU.

The full text of the EU Declaration of Conformity is available at the following internet addresses:

<https://electriQ.co.uk/files/DOC/EU/RFST-W.pdf>

UK DECLARATION OF CONFORMITY

Hereby, ElectriQ declares that the RF Smart Thermostat for wall-hung boiler is in compliance with the Radio Equipment Regulations 2017

The full text of the EU Declaration of Conformity is available at the following internet addresses:

<https://electriQ.co.uk/files/DOC/UK/RFST-W.pdf>

electriQ UK SUPPORT

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Recycling facilities are now available for all customers, where they can deposit their old electrical products. Customers can take any old electrical equipment

to participating sites run by their local councils. Please remember that this equipment will be further handled during the recycling process, so please be considerate when depositing your equipment. Please get in touch with the local council for details of your local household waste recycling centres.

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