



AO600BRF / AO600WRF SMART RF THERMOSTAT

QUICK GUIDE

MULTI-LANGUAGE



■ MANUAL ■

Introduction

The AO600BRF/AO600WRF Smart RF Thermostat is designed for wireless heating and cooling systems. Depending on the paired device, it can control underfloor heating control boxes, radiator valves (TRVs), receivers and compatible smart relay devices. Each thermostat is installed in an individual room and wirelessly communicates with a compatible control box to operate the corresponding actuator for that zone. The thermostat is powered by two AAA batteries and can be mounted directly on a wall installation and pairing with the control box must be carried out by a qualified installer.

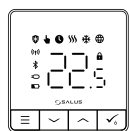
Product Compliance

This product complies with the essential requirements and other relevant provisions of Directives: GSPR 2023/988/EU, RED 2014/53/EU and 2025/138/EU Cyber issue, RoHS 2015/863/EU amended 2017/2102, 253 SVHC 1907/2006. The full text of the EU Declaration of Conformity is available at the following internet address: www.saluslegal.com. RF: 2405-2480MHz; <14dBm

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.

Box content



AO600RF
Thermostat



Quick guide



2 x Screws

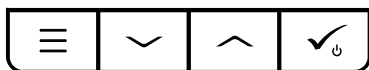


2 x Wall anchors



2 x AAA Batteries

Buttons description



MENU

Short press: Wake up the thermostat, return to the previous screen, or switch operating mode.

Long press: Switch between Heating and Cooling (just for Smart Plug/Relay)

DOWN

Wake up the thermostat and decrease the setpoint or selected value.

UP

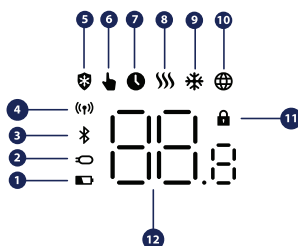
Wake up the thermostat and increase the setpoint or selected value.

OK/Validation

Short press: Wake up the thermostat and confirm a selection.

Long press: Enter Installer Mode.

Icons description



1. Low Battery Indication
2. External/Floor Sensor
3. BLE (Bluetooth)
4. ZigBee RF Indication
5. Frost Protection
6. Manual Mode
7. Schedule Mode
8. Heating
9. Cooling
10. Internet Connection
11. Lock Keys
12. Text (temperature, setpoint, setting value, setting option, etc.)

Pairing-First installation

Insert the batteries into the thermostat.

1. Power up the thermostat. The thermostat performs a self-test and displays the firmware version.

2. When CO is displayed, press OK to start searching for a ZigBee network.

Offline system: Enable pairing on the gateway

3. Wait for the thermostat to join the ZigBee network.

The RF icon flashes during the pairing process. Once the connection is established the thermostat automatically enters pairing screen and displays UFH.

4. Complete pairing directly on the thermostat with the compatible device.

5. Complete the installation.

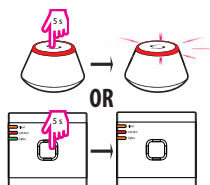
Complete pairing directly on the thermostat with the compatible device.

Online system: Complete commissioning using the SALUS Premium Lite App.

Online system



Offline system



Note: If no ZigBee network is found, the thermostat continues searching for up to 10 minutes before the process times out. Restart the pairing process after ensuring the gateway is powered on and in pairing mode.

Note: Local pairing is available only for offline systems. For installations with an Internet-connected gateway, complete the commissioning using the Premium Lite app instead.

Pairing On Device (OFFLINE)

If the thermostat is connected to a gateway without Internet access, or an offline installation is required, pairing can be completed directly from the thermostat.

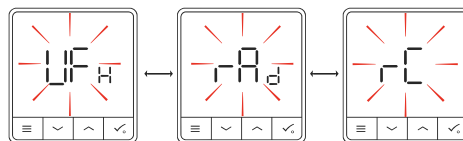
1. When UFH is displayed, use the UP ARROW and DOWN ARROW buttons to select the device type:

- UFH – Underfloor Heating Control Box
- RAD – Radiator Valves (TRVs)
- RC – Receiver

2. Press OK to confirm your selection.

3. Follow the on-screen instructions to pair the selected device.

4. When pairing is complete, the thermostat automatically enters normal operation.



Pairing with Wiring Center IT600 (UFH)

1. Select UFH and press OK.

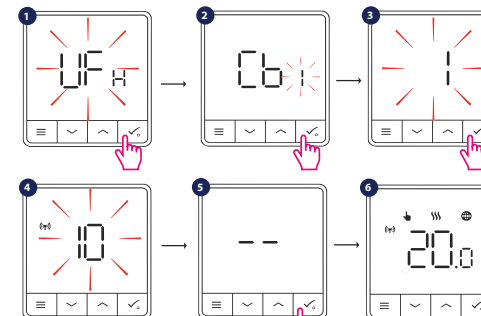
2. Select the required Control Box (Cb1–Cb9) using the arrow buttons and press OK.

3. Select the required Zone (1–12) using the arrow buttons and press OK.

4. Wait while the thermostat pairs with the control box (up to 10 minutes).

5. When "--" is displayed, pairing is successful. Press the arrow buttons to pair another zone, or Press OK on "--" to return to the Home screen.

Note: If the selected zone is already assigned display will show "re". Press confirm to replace, or press Menu not to replace, then select other zones to pair. If pairing fails, repeat the procedure after ensuring the control box is in pairing mode.

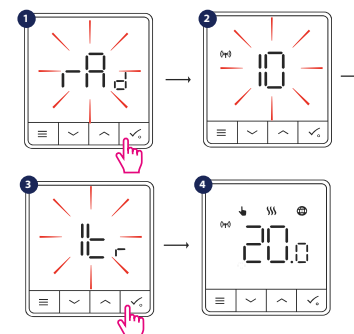


Note: If Er1 is displayed, pairing was unsuccessful. Check that the control box is in pairing mode and repeat the pairing process.

Pairing with TRV's (RAD)

Put the radiator valve(s) into pairing mode.

1. On the thermostat, select RAD and press OK.
2. Wait while the thermostat searches for compatible radiator valves (up to 10 minutes).
3. The display shows the number of paired valves (up to 6 TRVs).
4. Press OK to confirm and return to the Home screen.



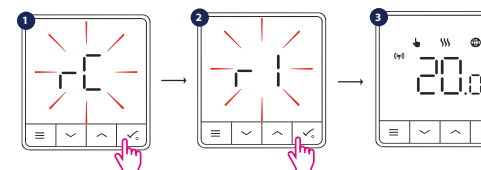
Note: One thermostat can control up to 6 compatible radiator valves (TRVs).

Note: If Er1 is displayed, pairing was unsuccessful. Ensure the radiator valve is in pairing mode and repeat the pairing process.

Pairing with Boiler Receiver (RC)

Put the receiver into pairing mode.

1. On the thermostat, select RC and press OK.
2. Select the receiver type (RX1 or RX2) using UP or DOWN arrow, then press OK. Wait until pairing is complete.
3. The thermostat automatically returns to the Home screen when pairing is successful.



- Note:** Ensure the selected receiver (RX1 or RX2) is powered on and in pairing mode before starting.
- Note:** If pairing is unsuccessful, repeat the procedure after checking that the receiver is within communication range and still in pairing mode.

IMPORTANT
For device-specific installation, pairing procedures and advanced settings, refer to the instruction manual supplied with the corresponding UFH Control Box, Radiator Valve (TRV) or Receiver.

Installation in online mode - Pairing with Wiring Center

Add your control box to the system before adding thermostats (Follow the instructions provided for control box pairing). This allows you to complete the thermostat configuration. Open the SALUS Premium Lite app. Add the thermostat to your system. After the thermostat has joined the ZigBee network, the display shows APP, indicating that it is ready to be registered. Wait for the pairing process to complete. After successful registration, the thermostat automatically enters the Home screen.

Note: The app does not register the thermostat until after the thermostat has successfully joined the ZigBee network. Once connected, the thermostat displays APP and waits for commissioning from the Premium Lite app. If pairing is not completed within 10 minutes, the thermostat goes to sleep. After successful pairing, it proceeds to the Home screen.

Note: Ensure the thermostat is within range of the ZigBee network during commissioning.

1 SCAN HERE TO DOWNLOAD THE APP



GET IT ON Google Play

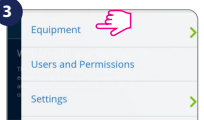
Download on the App Store

Install the Salus Premium Lite app.

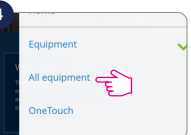
2 Press the three-line icon on the top right corner



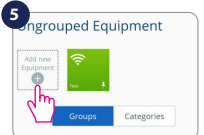
3 Select Equipment.



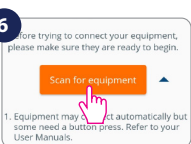
4 From the drop-down menu, select All equipment.



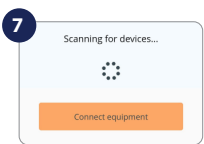
5 From the Groups tab, select Add new equipment



6 Before trying to connect your equipment, please make sure they are ready to begin.



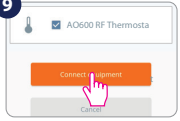
7 The app will scan for devices...



8 Tick the box to select AO600 RF Thermostat



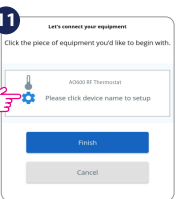
9 Connect equipment



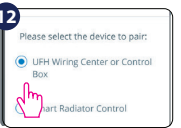
10 Name your equipment



11 Click on the cog wheel icon to select the pairing device and follow the app screens to complete the installation.

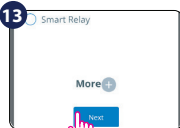


12 Please select the device to pair:



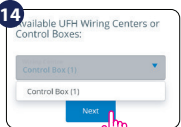
Now, choose "UFH Wiring Centre or Control Box" option, and click Next

13 Smart Relay



Click on "More" pictogram for the next steps

14 Available UFH Wiring Centers or Control Boxes:

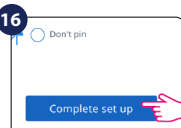


Select your control box in the dropdown menu.

15 Select the zone you want to assign your thermostat to. You can pair one thermostat with up to 12 zones.

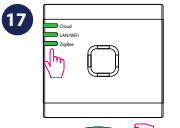


16 Don't pin



Pin thermostat to the main app screen and complete set up.

17 UG600 LEDs show solid green. UGE600/UGE600 shows solid blue.



Important: Always complete Steps 1–11 before installing any additional devices (e.g., RC or TRV). Once the initial online installation is complete, select the desired device from the app and follow the instructions to add it to the existing system.

Activate Bluetooth (BLE)

Bluetooth can be activated to allow local configuration using the SALUS Premium Lite app. Open the SALUS Premium Lite app. On the Welcome screen, tap Offline Configuration (no account required). If prompted, allow the app to use Bluetooth and Location permissions. Press and hold the MENU and OK buttons on the thermostat for 3 seconds until APP is displayed. The app will automatically search for nearby devices. Select the gateway to start the configuration.



Factory Reset of the thermostat

Restores the thermostat to its factory default settings and removes all saved configuration.

1. Press and hold MENU+UP button +DOWN button simultaneously for 3 seconds

2. When FR appears on the display, press OK button to confirm

The thermostat will reset to factory settings and be removed from the network. The thermostat can now be added to the network again.

Error Codes

Display	Meaning	Solution
E1	Lost connection to Gateway	Check that the gateway is powered on and within ZigBee range.
E2	Lost connection to Control Box	Verify the Control Box is powered and paired correctly.
E3	Lost connection to Receiver	Check the receiver power supply and RF connection.
E4	Lost connection to TRV	Ensure the radiator valve is powered and paired with the thermostat.
E5	Internal temperature sensor error	Restart the thermostat. If the error remains, contact technical support.
E6	External/Floor sensor error	Check that the external or floor sensor is correctly connected and not damaged.

Installer Mode

Note: Long press OK button on home screen to enter Installer mode.

Pxx	Function	Parameter	Def. Value	Description
P1	Temperature display resolution	0.1°C or 0.5°C	0.5°C	Set display resolution
P2	Temperature calibration	±3.5°C	0.0°C	Adjust displayed temperature
P3	Frost setpoint	5°C–17°C	5°C	Set frost protection temperature
P4	Heating algorithm	ITLC (3/4/9 CPH), Span ±0.25°C, ±0.5°C, ±1.0°C, ±1.5°C, ±2.0°C	Device dependent	Select heating control method
P5	TRV Control	Auto, Standard On/Off, Self-learning*	Auto	Selects the control mode for paired TRVs.
P6	S1/S2 Input	Off, Air Sensor, Floor Sensor, Heat/Cool Changeover, Occupancy Sensor	OFF	Configures the function of the S1/S2 input.
P7	Cooling Algorithm	Span ±0.25°C, ±0.5°C, ±1.0°C, ±1.5°C, ±2.0°C	±0.25°C	Selects the cooling control method.
P8	Valve Protection	On / Off	On	Enables or disables automatic valve protection.
P9	Maximum Heating Setpoint	5.5°C–35°C	35°C	Sets the highest heating temperature that can be selected.
P10	Minimum Heating Setpoint	5°C–34.5°C	5°C	Sets the lowest heating temperature that can be selected.
P11	Maximum Cooling Setpoint	5.5°C–35°C	35°C	Sets the highest cooling temperature that can be selected.
P12	Minimum Cooling Setpoint	5°C–34.5°C	5°C	Sets the lowest cooling temperature that can be selected.

Pxx	Function	Parameter	Def. Value	Description
P13	Floor High Limit	10.5°C–45°C	27°C	Sets the maximum floor temperature in heating mode.
P14	Floor Low Limit (Heating)	10°C–44.5°C	10°C	Sets the minimum floor temperature in heating mode.
P15	Floor Low Limit (Cooling)	5°C–40°C	6°C	Sets the minimum floor temperature in cooling mode.

Note: Installer settings should only be configured by a qualified installer. Some parameters are available only when the corresponding function or accessory is enabled (for example, a floor sensor or Heat/Cool Changeover). The available heating control algorithm depends on the paired device. When using a floor sensor, set P6 to Floor Sensor before configuring the floor temperature limits (P13–P15). Press OK to save any changes.

Device Compatibility

Category	Compatible Device	Online System	Offline System
TRV	Mini TRV	✓	✓ with gateway
	Super quiet TRV	✓	✓
Wiring Center	KL08RF	✓	✓ with gateway
	CB12RF	✓	✓ with or without gateway
Receiver	RX10RF	✓	✓ with gateway
	RX30RF	✓	✓ with gateway
Smart Plug/Relay	SP600	✓	✓
	SPE600	✓	✓
	SR600	✓	✓
Universal Gateway	UG600/UGE600	✓	✓
	UG800	✓	✓
Window/Door sensor	SW600	✓	✓

Installer Notice: This guide provides only the essential installation and commissioning steps. For complete product information, advanced configuration, wiring details, and troubleshooting, refer to the AO600WRF/AO600BRF Thermostat User Manual.

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