

Underfloor Heating Automation Kit Q20

Smart Home Automation and Temperature Monitoring



Wireless solutions for underfloor heating automation, boiler control, or mixed installations for houses and apartments, suitable for both new construction installations and pre-installed systems.

Wireless Thermostats:

- [Wireless Thermostat Q20](#)
- [Wireless Thermostat Q30](#)
- [Thermostatic Valve QTV20](#)



Visit the [QuicksmartAutomations.com](https://www.QuicksmartAutomations.com) EU store.



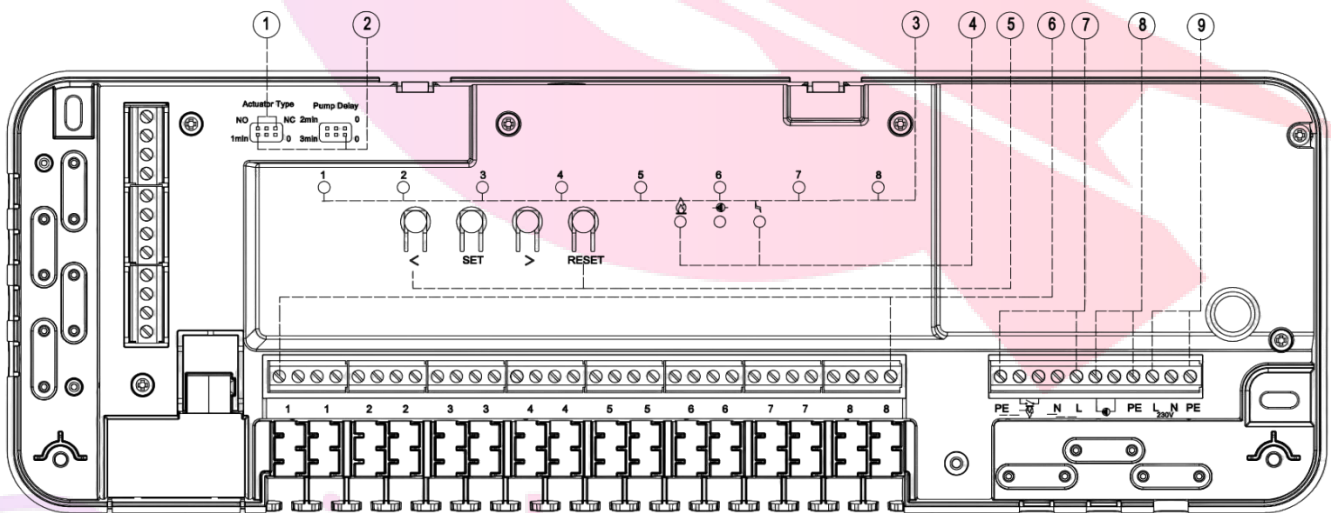
Q20 Controller

Q20 Controller Features:

- Wireless connection of two Q20 Controllers with one receiver (for multi-level homes)
- Wired connection to the boiler (if not opting for wireless)
- Wireless, cable-free connection to ambient thermostats
- Selectable heating or cooling mode for heat pumps
- Allows connecting the same thermostat to multiple zones
- Supports up to 32 thermal actuators
- Selectable NO (Normally Open) or NC (Normally Closed) actuators
- Adjustable boiler and pump delay time (0-6 minutes)
- Convenient wiring and installation with mounting rail and included cable

Q20 Controller Technical Specifications:

- Main Power Supply: 230 VAC 50/60 Hz
- Recirculation Pump Power: 230 VAC
- Wireless Frequency: 868 MHz for thermostats and receiver connection
- Boiler Power: 230 VAC; Max Current: 5A per output
- Dimensions: 3535 mm x 1184 mm x 595 mm (surface mounted)



















1. Actuator type selection NO/NC
2. Setting the delay for the recirculation pump and boiler, 0-6 minutes
3. LED indicator for active zones
4. LED indicator for boiler/heat pump/buffer operation
LED indicator for recirculation pump operation
Main power LED indicator
5. Selection/navigation button / Increase and Decrease buttons
SET button (ID pairing)
Reset button
6. Thermal actuator connectors Zone 1 ~ Zone 8, 230V voltage



7. Boiler/heat pump/buffer connectors, 5A maximum
8. Recirculation pump connectors, 230V voltage
9. Main power connectors, 230V voltage

Setting the Delay Time

The boiler and pump delay time can be set from 0 to 6 minutes using the jumper, as shown in the diagram. The actuator type (NO/NC) can be selected based on your needs.


0 Min.	NC  NO 2min  0	4 Min.	NC  NO 2min  0
1 Min.	1min  0 3min  0	5 Min.	1min  0 3min  0
2 Min.	1min  0 3min  0	6 Min.	1min  0 3min  0
3 Min.	1min  0 3min  0	Valve Type	NC  NO 

Pairing the Q20 Thermostat with the Q20 Controller



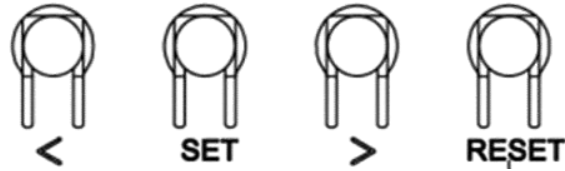
Thermal actuators are purchased separately and are not included in the package. Actuators are screwed onto the distributor without being powered.

Once the Central Unit is powered and connected to the system, follow these steps:

1. On the Central Unit, press the left-right arrows and select the channel you want to use from 1 to 8. The selected zone will blink slowly. Then, press the SET button, and the LED will blink rapidly.
2. Continue with the thermostat. Turn it off, then press and hold the "M" button until the pairing code appears on the screen, and then press the up button .
3. Wait for the LED on the Central Unit to turn off. Pairing is successfully completed!
4. If you want to connect the same thermostat to multiple zones, go to the next zone and press **SET**.



5. Turn the thermostat back on.



You can check if the thermostat and the Q20 Central Unit are working correctly by setting the thermostat to a higher temperature than the room temperature. The system should start heating; the corresponding circuit LED on the Central Unit will light up, indicating that the actuator is working and has received the command.

To disconnect the thermostat and its set channel on the Q20 Central Unit, press the left or right arrows until you reach the desired zone LED, then press and hold the RESET button for 2 seconds to disconnect.

If the Q20 Central Unit requires a factory reset, press and hold both the left and right buttons for 10 seconds until all LEDs light up. If it locks up, cut off the power for a few minutes and then reconnect.

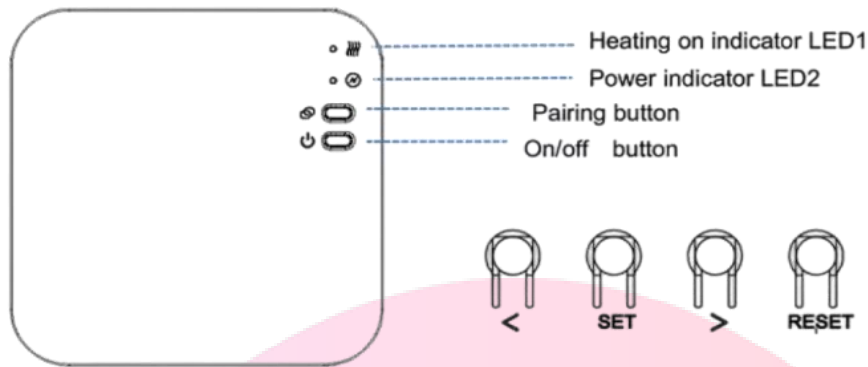
Q20 Thermostat Technical Specifications:

- Power supply: 2*AA batteries or USB; 5V/1A
- Backup storage: EEPROM
- Maximum voltage/load (ohmic): 250 VAC/10 A
- Frequency: 868 MHz
- Switching options: 7 days, 4 periods per day
- Temperature settings: 5°C ~ 35°C, in 0.5°C increments
- Accuracy: +/- 0.5°C
- Thermostat dimensions: 1259823.5MM (surface mounted)
- IP protection grade: 20


Q20 Receiver with Radio Frequency

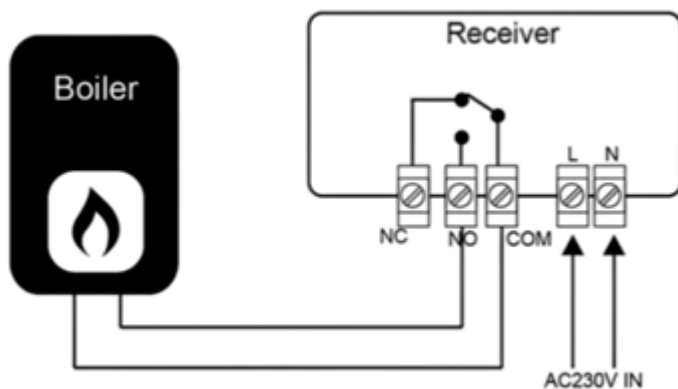
Technical Specifications:

- Power supply: 230 VAC 50/60 Hz
- Frequency: 868 MHz for connecting the receiver
- Supports wireless connection with two Q20 Controllers
- The signal range depends on the wall thickness; recommended distance should not exceed 20 meters



Pairing with the Q20 Controller:

- Correctly connect the L-N of the receiver to the power source. When powered correctly, the green LED will remain on.
- Press and hold the pairing button on the receiver until LED 2 blinks rapidly.
- On the Q20 Central Unit, press the arrow buttons until you arrive to  and the corresponding LED blinks slowly. Press the **SET** button, and the green LED will blink rapidly. Once the receiver LED stops blinking, pairing is successful. Press **SET** again briefly to exit.
- Repeat the procedure if you want to pair multiple Q20 Units with the same receiver (up to two units).



Operating Voltage:	230Vac; 50/60Hz
Backup Storage:	EEPROM
Load:	Max 10A
Switch contacts:	NO and NC.
Dimensions:	90mm x 90 mm x 26mm.
Color:	White
IP protection rating:	20.
Certification:	CE, RoHS, RED

Smart e-Hub Gateway for Remote Control

For the Smart Control Version via the app only

Technical Specifications:

- Power supply: 230 VAC 50/60 Hz
- Frequency: 868 MHz
- Supports up to 25 thermostats
- The e-Hub is designed for quick and easy setup to control your thermostats remotely via the app. Simply follow the setup instructions in the **Smart Life** app, and you'll soon have full control over your home heating system.

The Smart Life app, available for free on the App Store and Play Store, is the best app for centralized remote control of smart devices. It can also be integrated with Google Home and



Alexa, allowing you to control all your smart devices from one place. With **Smart Life**, you can create automation tasks via the IFTTT platform and directly from the app.

How to Download the Smart Life App

For the Smart Control Version via the app only



1. Scan the QR code to download and install the **Smart Life** app for iOS or Android.
2. If you cannot scan the QR code, search for "Smart Life" on Google Play (for Android phones) or the Apple Store (for iPhones) to download the app.

How to Register an Account in the Smart Life App

For the Smart Control Version via the app only

You will need to register for an account after downloading the app. There are two ways to sign up: using your mobile phone number or your email address. Select the country you reside in and enter your mobile phone number or email.

1. If you use your mobile number, you will receive a text message with a registration code. Enter the code, create a password, and confirm.
2. If you enter your email, you will be prompted to create a password and then confirm it. Tap "Next" to continue.



How to Add the e-Hub in the App

For the Smart Control Version via the app only

Power on the e-Hub and hold the Reset button for 5 seconds. Both LEDs will light up. Press the Reset button again for 5 seconds, and only the green LED will blink rapidly.

Open the **Smart Life** app and click the "+" button in the upper right corner to add a device. Select "**Other**" - "**WiFi Connector**" and follow the instructions on your phone.

You will be prompted to enter your Wi-Fi network password during the next step.



Smart Home Automation and Temperature Monitoring



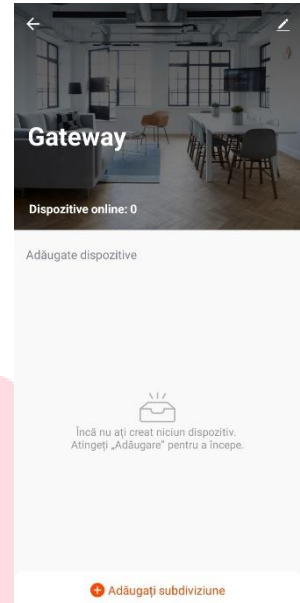
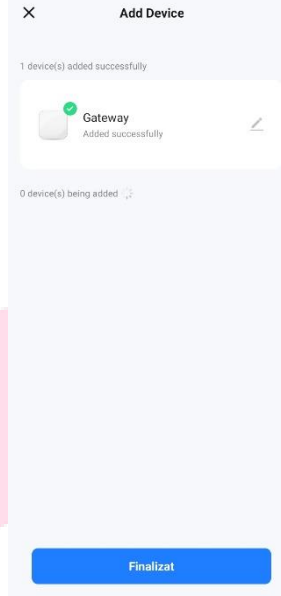
Reset the device



Press and hold the RESET button for 5 seconds until the indicator blinks (subject to the user manual).

Confirm the indicator is blinking

Reset Device Step by Step



How to Add Thermostats in the App

For the Smart Control Version via the app only

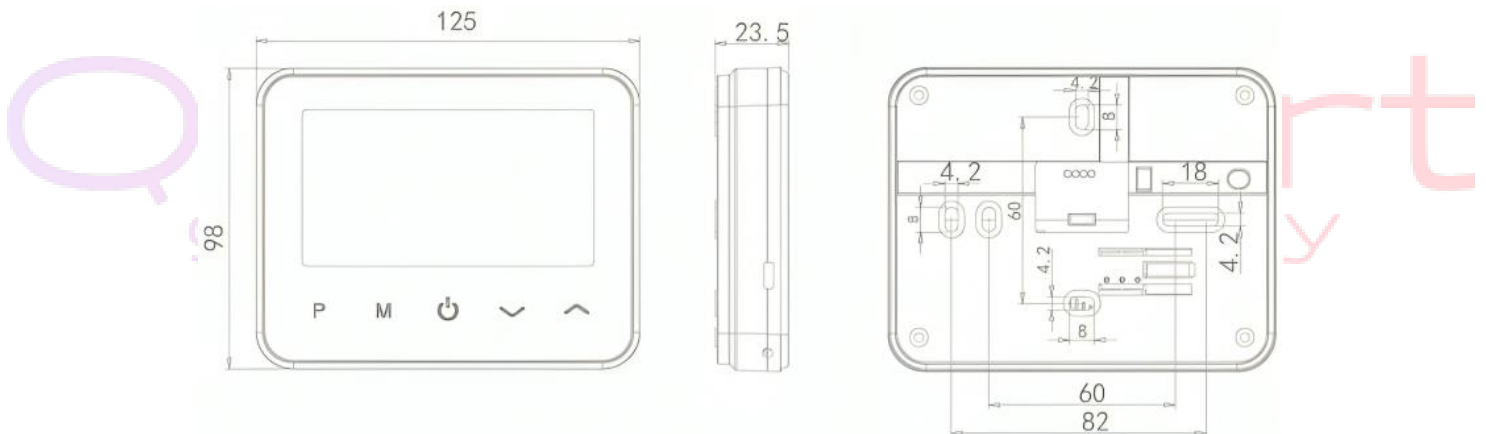
1. Turn off the thermostat, then press and hold the "M" button until the pairing code appears on the screen.
2. In the app, access the hub and add a subdivision - select "Sensor". The app will scan and add the thermostat. Repeat for each product.

If you cannot add the device, please check the following:

- Ensure that your Qsmart device is powered on.
- Make sure your phone is connected to a 2.4G Wi-Fi network.
- Check your router and connections. If your router is dual-band, select the 2.4G network to connect your phone and smart device.

Note: If the router automatically switches from 2.4GHz to 5GHz, move away from the router to force a 2.4GHz signal during the initial pairing.

Once you enter the Wi-Fi password, the system will take a few seconds to connect. If the quick connection fails, use the "AP Mode" to add the device.





Q20 Wireless Thermostat

Technical Specifications:

- Power supply: 2*AA batteries or USB; 5V/1A
- Backup storage: EEPROM
- Maximum voltage/load (ohmic): 250 VAC/10 A
- Frequency: 868 MHz
- Switching options: 7 days, 4 periods per day
- Temperature settings: 5°C ~ 35°C, in 0.5°C increments
- Trigger hysteresis: 0.5°C
- Accuracy: +/- 0.5°C
- Thermostat dimensions: 125x98x23.5MM (surface mounted)
- IP protection grade: 20
- Certification: CE, RoHS



Setting the Clock

Press and hold the "M" button for 3 seconds to set the clock and preset the temperature for each mode by pressing the arrow buttons. Each press of the "M" button moves to the next setting item.

Menu Description

- 01 Set minute of the clock
- 02 Set hour of the clock
- 03 Set the day of the week

For the Smart version, the thermostat syncs automatically with the app.

Mode Selection

Press the "P" button to switch from Program mode to Manual mode.

Press the "M" button to switch from Heating mode to Cooling mode (for heat pumps).

In the app, periods can be set in 15-minute intervals from the "Settings" menu. In the "Schedule" menu, you can switch between Manual mode and Program mode.

Notes:

1. If the thermostat is in Program mode, adjusting the set temperature by pressing the arrow buttons will change the temperature temporarily and will not be saved for the next period.
2. If the thermostat is in Manual mode, adjusting the set temperature will save the new setting for future use.

Programming Periods



Press and hold the "P" button for 3 seconds to enter the program setting. Set the program (day of the week, period, start time, temperature) using the arrow buttons. Each press of the "P" button moves to the next setting item.

For the Smart version, the programming is done in the app under "Settings" - "Week Program". When a temperature at least 0.5°C higher than the room temperature is requested, the thermostat will activate the boiler, indicated by the "Working" status in the app.

Temperature Calibration

This function is used to calibrate the room temperature displayed by the thermostat if it differs from the actual room temperature (refer to menu 01 of the advanced settings or adjust directly in the app). For example, if the actual room temperature is 21.5°C but the thermostat shows 23°C, you can set this value to -1.5°C, and the thermostat will then display 21.5°C.

Frost Protection

This is the temperature maintained when the thermostat is in Frost Protection mode (refer to menu 05 in the parameter settings). If the room temperature drops below 5°C (default), the thermostat will activate the heating until the room temperature reaches 5°C (default).

Switching Differential

This function allows you to increase the thermostat's switching differential (refer to menu 09 in the parameter settings). The default value is 0°C, meaning that with a set temperature of 20°C, the thermostat will turn on the heating at 19.5°C and turn it off at 20.5°C. With a differential of 0.5°C, the heating will turn on at 19°C and off at 21°C.

Child Lock

When the child lock is ON (refer to menu 11 in the parameter settings), the buttons will lock once the backlight turns off. Press both arrow buttons for 5 seconds to unlock it for temporary adjustments.

Open Window Detection (OWD)

When the open window detection feature is activated in the advanced settings, the system will automatically stop heating when it detects a sudden drop in room temperature (2°C in 15 minutes by default). This typically happens when a window or door is opened without turning off the heating device. The thermostat will return to its previous operating mode after 30 minutes (default). Press any button to exit the OWD function during the heating stop period.

Advanced Settings

- Turn off the thermostat, then press and hold the up arrow button and the "M" button for 6 seconds. Each press of the "M" button will go to the next setting item. Adjust the value by pressing the up and down arrow buttons.

App Settings

- **Heat/Cold:** Switch between heating and cooling modes.
- **Schedule:** In Off mode, the thermostat stays in Manual mode; in On mode, the thermostat will follow the programmed schedules set in "Settings" - "Week Program".
- **Settings:** Advanced settings menu in the app.



Advanced Settings Menu

Menu	Description	Range	Default
01	Thermostat temperature calibration	-8°C ~ 8°C	0°C
02	Max setpoint temperature	5°C ~ 35°C	35°C
03	Min setpoint temperature	5°C ~ 35°C	5°C
05	Frost protection temperature	5°C ~ 15°C	5°C
09	Switching differential	0°C ~ 3°C	0°C
11	Child lock	1: Lock, 0: Unlock	0
12	Open window detection	ON/OFF	OFF
13	Open window detection time	2 ~ 30 minutes	15 min
14	OWD temperature selection	2°C, 3°C, 4°C	2°C
15	OWD delay time selection	10 ~ 60 min	30 min
17	Factory reset	Set to 1, then press ON/OFF to restart	
18	Software version	Read-only	
31	RF information	Read-only	
32	Standby brightness adjustment (USB powered only)	0 ~ 100%	40%

Q30 Wireless Thermostat

This digital thermostat is designed to manage heating and cooling systems in homes and commercial buildings. It offers advanced functionalities and features to enhance comfort and energy savings. It has a sleek, modern, minimalist design with an easy-to-read e-Ink digital display and includes a humidity sensor. The user interface is intuitive, allowing for easy operation.

Features:

- Easy-to-read e-Ink digital display
- Built-in rechargeable battery (recharges every 6 months); 10mm thickness
- Touch buttons and a glass front panel
- Heating and cooling modes
- Programmable only through the **Smart Life** app
- Displays both temperature and humidity
- The thermostat comes with a wall-mounting frame, base, and a compact receiver (in the individual version).





Display

Default screen – Room temperature. Press the "O" button for the humidity screen.

One of the main advantages of E-Ink technology is the extremely low energy consumption, as the refresh rate is very low.

Since the thermostat operates in Low Power Mode, when navigating menus, submenus, or displayed information, black pixels may appear for 1 second. This is not a defect.

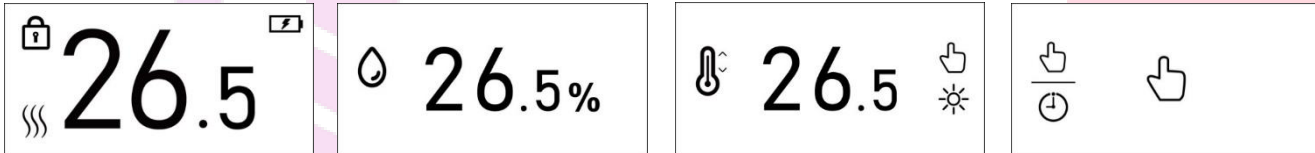
Manual temperature adjustment

Press the or buttons to set the desired room temperature.

Mode selection

Press the "O" button until the screen shown appears to select manual mode or PRG mode.

Note - The programmable mode is available only when the Q30 thermostat is connected to the Q20 receiver or the Q20 E-Hub gateway. If the Q30 thermostat works only with the Q20 controller, the PRG function is not available.



Pairing the Q30 Thermostat with the Q20 Controller

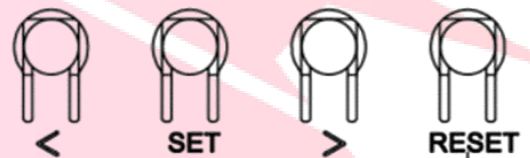
After the Central Unit is powered and connected to the system, follow these steps:

1. On the Controller, press the left-right arrows to select the desired channel from 1 to 8. The selected zone will blink slowly. Press the SET button, and the LED will blink rapidly.

2. On the thermostat, press and hold "O" and the up button for 5 seconds to enter pairing mode. Then press the up button to enter the connection mode.

3. Wait for the LED on the Controller to turn off. Pairing is successfully completed!

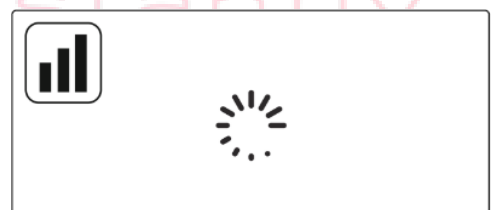
If you want to connect the same thermostat to multiple zones, go to the next zone and press SET.



Adding the Q30 Thermostat to the Smart Life App

Note: Before adding this thermostat to the app, make sure the Q20 E-Hub gateway has already been added.

1. Open the app and access the gateway.
2. Press "Add Sub-division" - Thermostat.
3. On the thermostat, press and hold "O" and the up button for 5 seconds to enter the connection page, then press the button to enter pairing mode.
4. When the Wi-Fi icon stops blinking, the pairing process is complete.





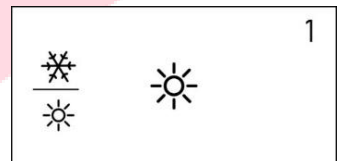
Advanced Settings

Press and hold the "O" button for 5 seconds to turn off the thermostat. Then, press and hold the "O" button for another 3 seconds until the display shows 01. Each press of the "O" button will move to the next setting item, and you can adjust the range using the up and down buttons.

Menu	Description	Range	Default Value
1	Mode selection for heating and cooling	Heating mode / Cooling mode	Heating mode
2	Temperature calibration	-8°C ~ 8°C	0°C
3	Max. reference point	5°C ~ 35°C	35°C
4	Min. reference point	5°C ~ 35°C	5°C
5	Frost protection temperature	OFF / 5°C ~ 15°C	5°C
6	Differential switching	0°C ~ 3°C	0.5°C
7	Screen color selection	White or Black	White
8	Child lock	1: Lock / 0: Unlock	0 (Unlock)
9	Open window detection function	OFF	OFF
10	OWD Detect Time	2 ~ 30 minutes	15 minutes
11	OWD Temp. Selection	2°C, 3°C, 4°C	2°C
12	OWD Delay time selection	10 ~ 60 minutes	30 minutes
13	Battery power indicator	Read-only	
14	Software number	Read-only	
15	Factory reset	Set to REST, then press and hold the "O" button to activate	

Heating or cooling mode:

This feature is used to switch between summer and winter operating modes. In the summer, the user can choose the cooling mode ❄️, and in the winter, you can choose the heating mode ☀️ (default).



Temperature Calibration

This function is used to calibrate the thermostat's temperature when a different temperature is displayed compared to the actual room temperature (menu 2 of the parameter settings). For example, if the actual room temperature is 21.5°C, but the thermostat shows 23°C, you can set this value to -1.5, and the thermostat will then display 21.5°C.





Frost Protection

This is the temperature maintained when the thermostat is in Frost Protection mode (refer to menu 04 in the parameter settings). If the room temperature is below 5°C (default), the radiator thermostat will turn on the heating until the room temperature reaches 5°C (default).



Switching Differential

This function allows you to increase the thermostat's switching differential (refer to menu 05 in the parameter settings). The default value is 0.5°C, which means that with a set temperature of 20°C, the thermostat will turn on the heating at 19.5°C and turn it off at 20.5°C. With a differential of 0°C, the heating will turn on at 19°C and off at 21°C.

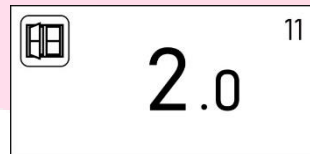
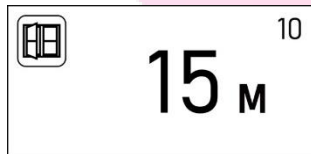


Child Lock

In the child lock OFF state (refer to menu 06 in the parameter settings), the buttons will lock once the backlight is off. Press the "O" button for 5 seconds to unlock it for temporary adjustments.

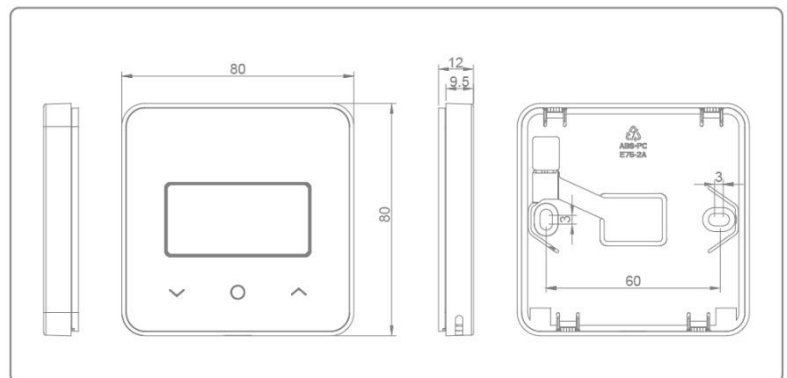
Open Window Detection (OWD)

When the open window detection feature is activated (see menu 09 in the parameter settings), the system will automatically stop heating when it detects a sudden drop in room temperature (2°C in 15 minutes by default). This usually occurs when a window or door is opened without stopping the heating device. The device will revert to the previous operating mode after 30 minutes (default). Press any button to exit the OWD function during the heating stop period.



Technical Specifications:

- Power supply: Built-in 1500mAh lithium battery or 5V/1A USB-C
- Frequency: 868 MHz
- Temperature settings: 5°C ~ 35°C, in 0.5°C increments
- Accuracy: +/- 0.5°C
- Dimensions: 80x80x12MM (surface mounted)
- IP protection grade: 20





QTV Thermostatic Head

The QTV20 is a smart radiator thermostat that allows you to easily control each radiator individually from your home. By adding the Q20 E-Hub with Radio Frequency and Wi-Fi, you can control your radiators from your smartphone. If you prefer to adjust settings manually, you can use the desired temperature setting on the display by pressing the buttons.

The QTV20 thermostatic heads can be used together with the Q20 Underfloor Heating Automation if the location has radiators that are not centrally controlled through the distributor and you want to manage them. The QTV20 heads connect to the Q20 Automation Hub, and the entire system can be controlled from the same location.

Functions:

- Easy programming via the app on your smartphone (iOS and Android)
- Energy savings
- M30 x 15 universal type connection
- Easy to install
- Child lock
- PID or ON/OFF precise temperature control
- Display shows set temperature or measured temperature



Technical Specifications:

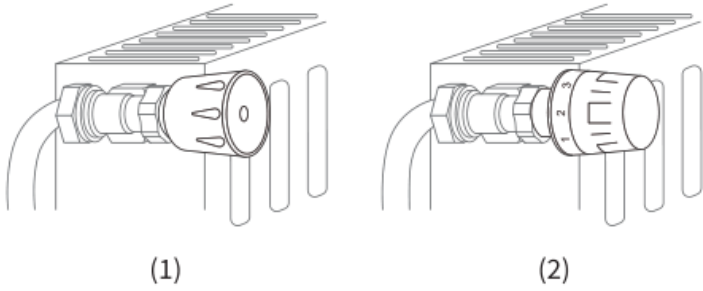
- Operating voltage of the thermostat: 2 x AA 1.5V alkaline batteries
- Backup storage: EEPROM
- Switching options: 7-day programming (only from the app)
- Frequency: 868 MHz
- Temperature settings: 5°C ~ 35°C in 0.5°C increments
- Accuracy: $\pm 1^\circ\text{C}$
- Control: PID or ON/OFF
- Thermostat dimensions: 55*69mm
- Maximum extension: 50 mm
- IP protection grade: 20

Installation Instructions

Read these instructions carefully before starting:

- The device is intended for indoor use only and must be protected from moisture and dust, as well as solar radiation.
- The device is ONLY for water-based radiators; any other type of radiator is NOT acceptable.
- There are two types of radiator valves: manual valves (1) and thermostatic valves (2).

The thermostatic heads (usually marked with numbered gradations from 1 to 5) can be easily replaced with Smart Thermostatic Heads.

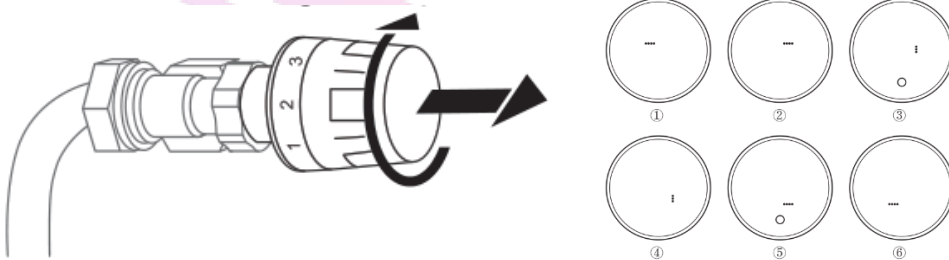


Installation Steps

Before we start, 2 x AA 1.5V batteries are required for the QTV head. Please be prepared.

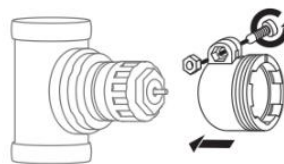
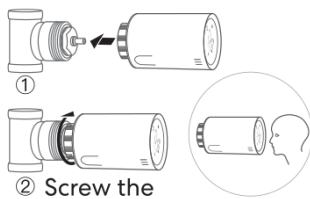
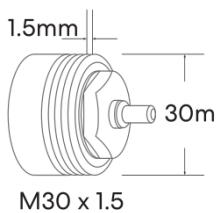
For remote control via the app, you need the Q20 E-Hub with Radio Frequency. Remove the existing radiator head. Do not worry; water will not leak during this process.

1. Install 2 non-rechargeable 1.5V batteries. Wait a few seconds; the screen will show "--" and then the dash will blink and rotate.

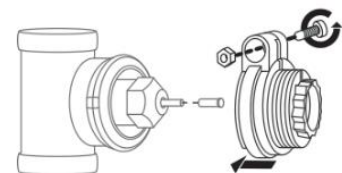


2. Screw the QTV head directly onto the radiator if the connection type is M30*15 (the image is shown below). You can adjust the angle to ensure the display is correctly oriented towards the viewer. Then hold the product and screw the nut until tight.

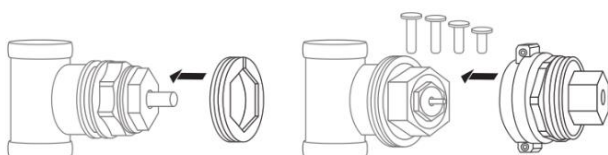
If your valves are of a different type, as listed below, please first refer to the next image for installing the adapter. Then screw the thermostat on as described in step 2.



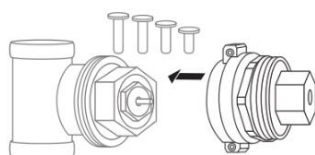
Danfoss



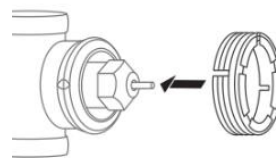
Danfoss RAV



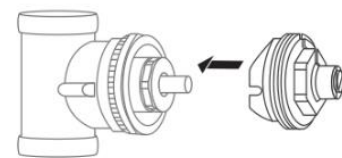
Caleffi



M28x1.5



Danfoss RAVL



Giacomini

Operation

Press the ON/OFF button, and the pin will detect the valve's stroke. During the process, the display will turn off to save energy.

Note: If you have already inserted the batteries before installation, remove the batteries for 10 seconds and then reinstall them. Otherwise, it may not correctly detect both probe heads.



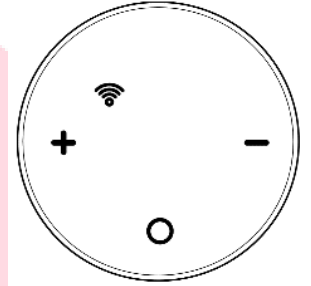
If the stroke adjustment is correct, the display will turn on automatically. If the adjustment fails, the display will show an "E" error; please try again from step 1.

Mode Selection

Press the "O" button to choose between Manual Mode / Program Mode / Away Mode (when not at home), then the radiator thermostat will operate according to the preset values.

Advanced Settings

Press and hold the "O" button to turn off the thermostat.
Hold the "O" button for 3 seconds until the display shows 01. Each press of the "O" button will take you to the next setting item; adjust the range using the "+" and "-" buttons.



Menu	Description	Range	Default
01	Temperature calibration	-8°C ~ 8°C	0°C
02	Max setpoint temperature	5°C ~ 35°C	35°C
03	Min setpoint temperature	5°C ~ 35°C	5°C
04	Frost protection temperature	5°C ~ 15°C	5°C
05	Switching differential	0°C ~ 3°C	0°C
06	Child lock	0: Disable, 1: Enable	0
07	Open window detection	0: Disable, 1: Enable	0
08	OWD Detect Time	2 ~ 30 minutes	15 minutes
09	OWD Temperature selection (during detection)	2°C, 3°C, 4°C	2°C
10	OWD Delay Time (returning to previous working state)	10 ~ 60 minutes	30 minutes
12	Control type	0: ON/OFF, 1: PI	0
13	PI: Select P band	2°C ~ 15°C	10°C
14	PI: I-time select	30 ~ 90 minutes	60 minutes
15	Set stop heating time when not receiving signals from connected TRVs	10 ~ 40 minutes	20 minutes
16	Software version	Read-only	
17	Software version	Read-only	

Calibration of Temperature

Recommendation: Set the head to -1 or -2 degrees compared to the room temperature. When the heating is on, the area around the radiator will have a higher temperature, and the head will close too quickly; test and adjust accordingly.



This function is used to calibrate the thermostat temperature when a different temperature is displayed than that of the room (see menu 01 of the parameter settings). For example, if the actual room temperature is 21.5°C but the thermostat shows 23°C, you can set this value to -1.5°C, and the radiator thermostat will display 21.5°C.

Adjust the displayed temperature of the thermostat by comparing it with another thermometer.

Frost Protection

This is the temperature maintained when the thermostat is in Frost Protection mode (see menu 04 of the parameter settings). If the room temperature drops below 5°C (default), the radiator thermostat will activate the heating until the room temperature reaches 5°C (default).

Switching Differential

This function allows you to increase the thermostat's switching differential (see menu 05 of the parameter settings). The default value is 0.5°C, which means that with a set temperature of 20°C, the thermostat will turn on the heating at 19.5°C and turn it off at 20.5°C. With a differential of 0°C, the heating will turn on at 19°C and off at 21°C.

Child Lock

In the child lock OFF state (see menu 06 of the parameter settings), the buttons will lock once the backlight is off. Press the "O" button for 5 seconds to unlock it for temporary adjustments.

Open Window Detection (OWD)

When the open window detection function is activated in the settings (see menu 09), the system will automatically stop heating when it detects a sudden drop in room temperature (2°C in 15 minutes as the default). This typically occurs when a window or door is opened without stopping the heating device. The device will revert to the previous operating mode after 30 minutes (default) and then disappear. Press any button to exit the OWD function during the heating stop period.

12. Control type

0: **ON/OFF type**. When the room temperature is below the reference value, the valve will open 100%. When it reaches the reference point, the valve will close 100%. This type will consume more power for the QTV head.

1: **PI type**. This is modulating control. It will automatically adjust the valve's opening position based on the temperature difference.

13. P-band selection operates only when you select type 12, PI control.

The higher the P value, the slower and more stable the temperature change. The lower the P value, the faster and more radical the temperature change.



14. I-time selection is a supplement to the P value set at 34.

Sometimes, even though the QTV operates according to the P value, the room temperature and the set temperature always maintain a constant difference, without any change. In this case, the I-time setting will act as a supplement.

The higher the I value, the slower and more stable the temperature change. The lower the I value, the faster and more radical the temperature change.

Adding the QTV Head to the App

Note: Before adding the QTV20 to the app, make sure that the WiFi and e-Hub are connected and online.

- Press and hold the ON/OFF button to turn off the TRV.
- Press and hold the ON/OFF button again until the WIFI icon appears.
- Press the + or - button, and the WIFI icon will start flashing.
- Open Smart Life, access the gateway, and press add subdivision – the LED is already flashing.

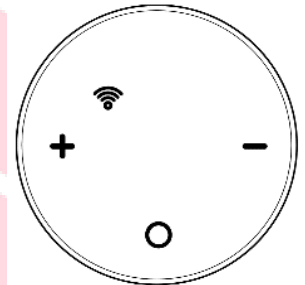
When the WIFI icon stops flashing, it means the code pairing is complete.

Press the ON/OFF button to return, and press it again to turn on the QTV head.

Pairing the QTV with the Receiver

Direct pairing with the receiver is only for boiler automation and NOT in a mixed system along with the Q20 underfloor heating automation.

1. Press and hold the pairing button on the receiver until the LED blinks rapidly.
2. Press and hold the "O" button to turn off the thermostat.
3. Hold the "O" button for 3 seconds to enter the connection screen.
4. Press the "+" or "-" button, and the Wi-Fi icon will start blinking.
5. When the LED on the receiver stops blinking, pairing is successfully completed!
6. Press the "O" button to exit the menu, and press it again to turn on the QTV.



Repeat the steps to pair each QTV head. Each thermostatic head communicates with the receiver every 10 minutes to relay the start or stop command.

Adding a New Product to the Alexa System

1. Open the Alexa app and click on the "Menu" button, then select "Skills."
2. Search for "Smart Life" in the search bar.
3. Choose "SMART LIFE" and then tap "Enable."
4. Select the country you reside in, enter your Smart Life account and password, then click "Link Now" (Note: Do not enter your Alexa account and password, or you will not connect with Alexa).



5. Congratulations! You have successfully connected Smart Life with Alexa! Press "Done" to close this window. (Note: If errors appear, tap "Done" and re-enter your Smart Life account and password to reconnect.)
6. Press "DISCOVER DEVICES." The system will take a moment to discover.
7. Once finished, you can see your devices on the Smart Home page in the Alexa app.
8. Press "GROUPS" on the Smart Home page in the Alexa app to create the name of the group you want.

Adding a New Product to the Google Home System

You can control over 10,000 smart home devices such as lights, switches, plugs, thermostats, and more using Google Home. Check compatibility on the Google Home website, where you'll find a list of compatible apps accepted by Google Assistant and Google Home. Ensure that the app for the product you are buying is on the list!

Step 1: Adding Devices

Install the app provided by the manufacturer of the devices you have purchased, then set up the devices in that app.

Step 2: Connecting your Device Apps to Google Home

1. On your smartphone, open the Google Home app.
2. On the Home screen, tap the "+" button "Add."
3. Tap "Set up a device."
4. Tap "Works with Google" or "Have something already set up?"
5. Choose from the list the app that controls your devices.
6. Follow the steps, and don't forget to tell Google Assistant "Sync my devices!" after finishing.

Note: If the app provided by the manufacturer is not on the Google Home list, the products will not work with the Google Home system. If you do not execute the command "Sync my devices," you will not find the devices in the Google Home app until after it syncs.

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