VIEW WIRELESS SMART HOME

03989 - IoT connected thermostatic head

The thermostatic head, fitted directly on the radiator, regulates the room temperature by controlling the flow of hot water circulating in the radiators of a heating system. Thanks to Bluetooth technology connectivity, it integrates into the View Wireless system and can be controlled manually locally, by an IoT thermostat (if configured in association), or remotely via the View App or voice assistants. The IoT connected heads replace existing thermostatic heads and are compatible with most valves through the use of various adapters (see the VALVE COMPATIBILITY TABLE).

Download the View Wireless App from the stores onto the tablet/smartphone you will be using for configuratio

When the device is powered for the first configuration, we recommend you search for any new firmware and perform the update.

You will also need:

Gateway art. 30807.x-20597-19597-14597
View App for management via smartphone/tablet
Amazon Alexa, Google Assistant, Siri (Homekit) voice assistants for possible voice operation

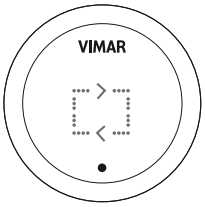
GENERAL SYSTEM CONFIGURATION

1. Create your Installer account on MyVIMAR (on-line).
2. Wire all the devices in the system (2-way switches, relays, thermostats, gateway, etc.).
3. Start the View Wireless App and log in with the credentials you just created.
4. Create the system and the environments.
5. Associate all the devices with the environments, except for the gateway (which should be associated last).
6. For every device, set the function, the parameters and any accessory devices (wired or radio control and related function).
7. Transfer the configuration of the devices to the gateway and connect it to the Wi-Fi network.
8. Transfer the system to the Administrator user (who must have created his/her profile on MyVIMAR).

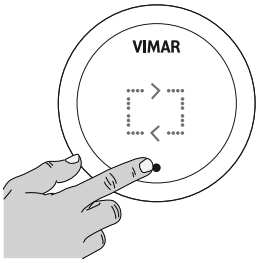
For details, see the View Wireless App manual that can be downloaded from the www.vimar.com website.

FIRST HEAD START-UP AND CONFIGURATION IN Bluetooth®

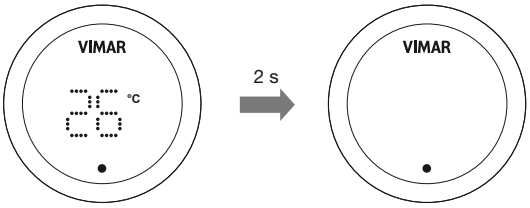
1. Screw the thermostatic head onto the radiator and insert the batteries as illustrated in "INSTALLATION AND BATTERY INSERTION."
   After inserting the batteries, the display will show an animation in the central area:



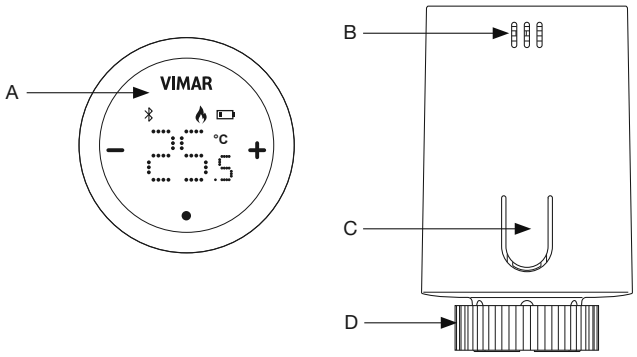
2. Press the ● button to start calibration or wait 5 min.



During calibration, the display remains off.
At the end of calibration (which takes approximately 30 seconds), the display will show the room temperature for 2 seconds and then turn off, entering standby mode.

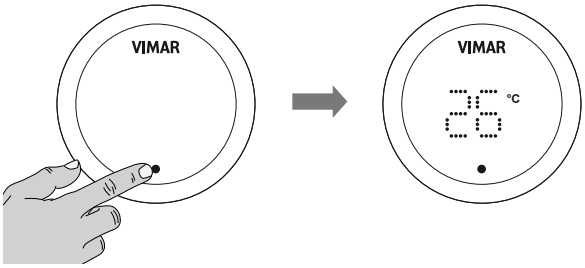


3. Start the View Wireless App and view the additional devices screen.

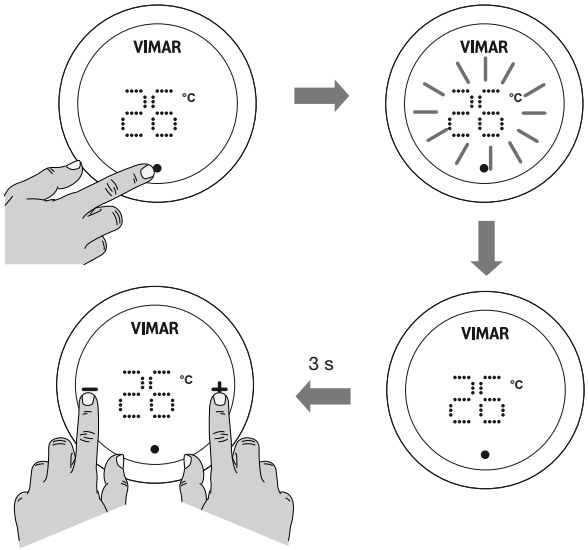


A	*Display* − • + : Touch keys for setting and operation : Bluetooth configuration. - ON: head working correctly - OFF; head not configured - Slow flashing: head configured but not connected to the network - Rapid flashing: head configuration in progress ● : Head in ON mode active : Flat battery signal °C = degrees Celsius
B	Temperature sensor
C	Push button to access the battery compartment
D	Hooking ring

4. Select "Add" ( ), choose the environment to place the head and give it a name.
5. Select ; activate the Bluetooth connection on your tablet/smartphone and approach the head with it.
6. Press the ● button briefly to exit standby.



7. Press the ● button again for 3 s; the display flashes twice and shows the set point after 3 s. Press buttons + and − on the head simultaneously for 6 s.



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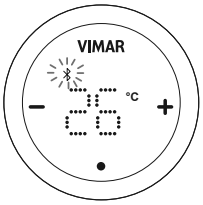
The ✱ icon starts flashing and the association is completed.

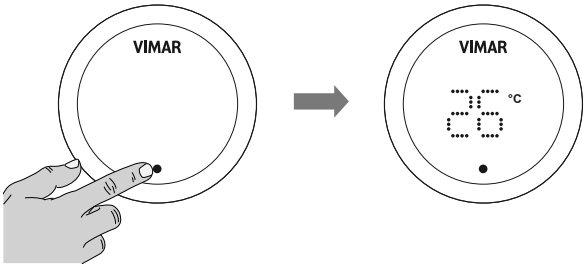


HEAD OPERATION

The thermostatic head always operates in heating mode, either ON or OFF.

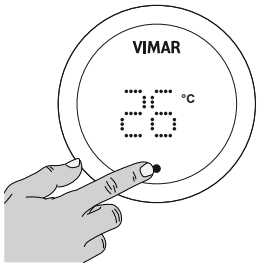
Standby

When the head is in standby, its display is off. To reactivate it, briefly press the ● button.

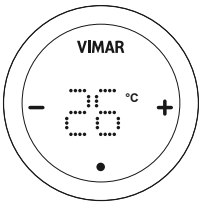


Operating mode

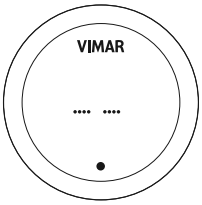
Briefly press the ● button.



• If the operating mode is ON, you'll see the temperature setpoint and can also modify it.



• If the operating mode is OFF, the display won't show any value.



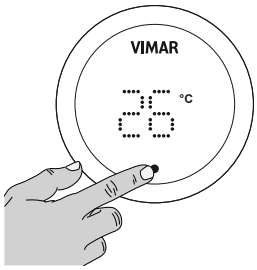
Temperature set point setting

1. When the thermostatic head is in ON mode, press one of the + and – buttons and they will both start flashing.
2. Again using + and – set the desired set point (each press increases or decreases by 0.5 °C).

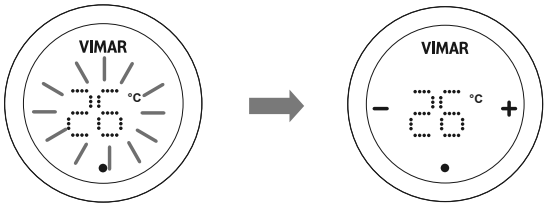
The display will revert to showing the room temperature and after a 5-second timeout without interaction with the device, the thermostatic head will go into standby with the display off.

OFF ➡ ON switching

After activating the display, press the ● button for 3 s.

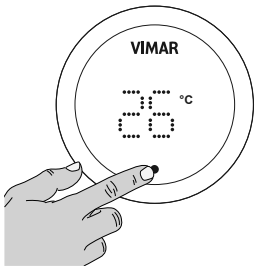


the display flashes twice and switches ON, showing the set point and the + and – buttons.

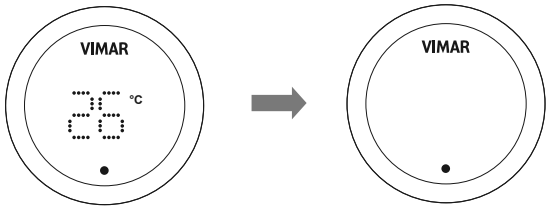


ON ➡ OFF switching

After activating the display, press the ● button for 3 s.



The display turns off and switches OFF.

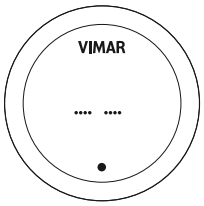


N.B. After a 5-second timeout without interaction with the device, the thermostatic head will go into standby and the display will turn off.

RESET PROCEDURE.

The reset restores the factory settings.

With the head in ON mode, press the + and – buttons until the display does not show any value.



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Parameter settings via the View Wireless App

Independent thermostatic head:

Menu	Parameters
Function ➡ Flat battery push notification	ON or OFF
Function ➡ Temperature calibration	± 5 °C

Thermostatic head associated with thermostat 30811-02974:

Menu	Parameters
Function ➡ Flat battery push notification	ON or OFF

INSTALLATION RULES.

- Installation must be carried out by qualified persons in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed.
- Hook the head onto the radiator before inserting the batteries and before performing configuration.
- The mechanical installation of head 03989 in the radiator affects the error in the temperature measurement; depending on whether the head is installed at the base of the radiator or at the top of it, the room temperature measured can even differ by 2-3°C.
- After completing installation, we recommend you perform a calibration by placing a thermometer in the room, at a height of 1.5 metres and at a distance of at least 3 metres from any heating elements, to detect the temperature difference between the thermometer's measurement and that of the thermostatic head. If necessary, calculate the average value between the two measurement differences obtained with the radiator 'hot' and 'cold'; this value should then be entered into the View Wireless App in the 'Winter Temperature Calibration' parameter of the thermostatic head.
- The head is inserted in the Bluetooth mesh network and therefore needs at least one mains powered IoT device (control, etc.) to be within its radio range. The head cannot operate in stand-alone mode.

CHARACTERISTICS.

- Power supply: 3 V DC with 2 rechargeable AA alkaline LR6 1.5 V batteries (not provided)
- Battery life: up to 2 years.
  The head stores the configuration assigned and retains it even in the event of a power outage.
- RF transmission power: < 100mW (20dBm)
- Frequency range: 2400-2483.5 MHz
- Max no. of heads per system: 24
- Display for adjustment and configuration
- Current settable setpoint: +5 - +35 °C
- Operating modes: Automatic, Manual, Reduction, Economy, Protection, Off, Timed Manual
- Heating adjustment in PI mode
- ErP classification (EU Reg. 811/2013): class IV temperature control device (contribution 2%)
- Temperature measurement precision (built-in probe): +/-1°C between +5 and 35°C
- Adaptors supplied for compatibility with the main valves: RA Danfoss, RAV Danfoss, RAVL Danfoss, Giacomini, Caleffi, M28x1.5, FAR.
- Protection degree: IP30
- Operating temperature: -T35 (5 °C ÷ +35°C) (internal use)
- Degree of pollution: 2 (normal)
- Tracking index: PTI175
- Room temperature during transportation: -25 - +60°C
- Software class: A
- Controllable via View App, Amazon Alexa, Google, Siri and Homekit voice assistant for Bluetooth technology system

REGULATORY COMPLIANCE.

RED Directive. RoHS directive.

Standards EN IEC 60730-2-7, EN 60730-2-9, EN IEC 63000, EN 301 489-17, EN 300 328, EN IEC 62311.

Vimar SpA declares that the radio equipment complies with Directive 2014/53/EU. The full text of the EU declaration of conformity is on the product sheet available on the following website: www.vimar.com

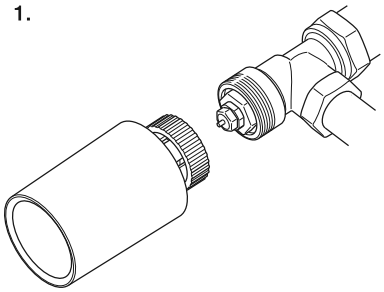
Temperature control device regulation (EU) no. 811/2013

REACH (EU) Regulation no. 1907/2006 – Art.33. The product may contain traces of lead.

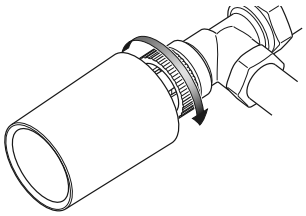
WEEE - User information
The crossed out bin symbol indicates that the product must be sent to separate collection facilities for recovery and recycling, in compliance with the national laws of EU Countries that implement the WEEE Directive. The objective is to prevent any harmful effects on the environment and on human health by ensuring that products are disposed of correctly, avoiding illegal disposal sanctioned by law.
To dispose of the product correctly, please check local dispositions in your country.

INSTALLATION AND BATTERY INSERTION

1.



2.



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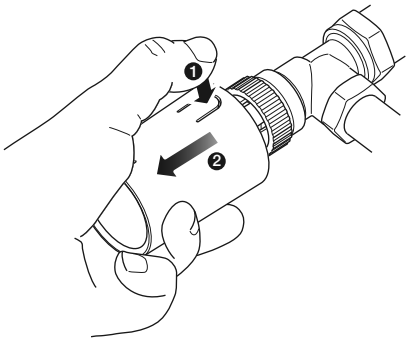

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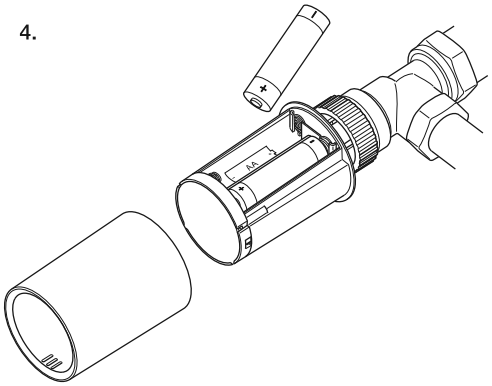
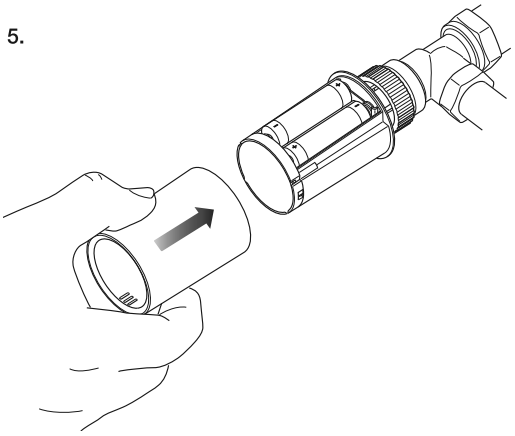


5.



CAUTION:
The product contains batteries; please dispose of the product in accordance with your local municipal waste disposal guidelines

WARNING:
Keep new and old batteries out of children's reach. Do not handle the battery incorrectly: do not recharge it, disassemble it, expose it to fire or high temperatures. Do not immerse, wet, or throw the battery in water. In case of battery leakage, do not directly touch the spilled liquid. Avoid contact with skin, eyes, and clothing.

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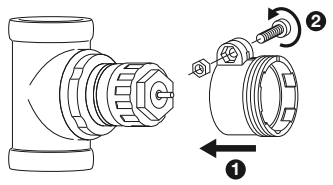
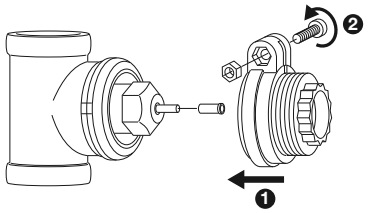
ADAPTORS SUPPLIED

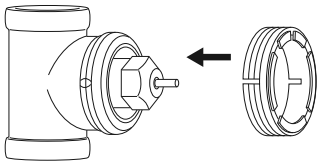
Danfoss RA



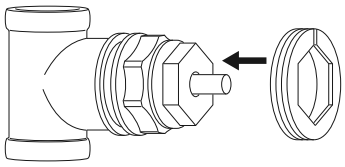
Danfoss RAV



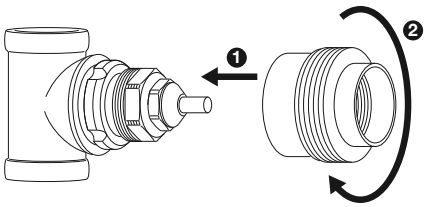
Danfoss RAVL



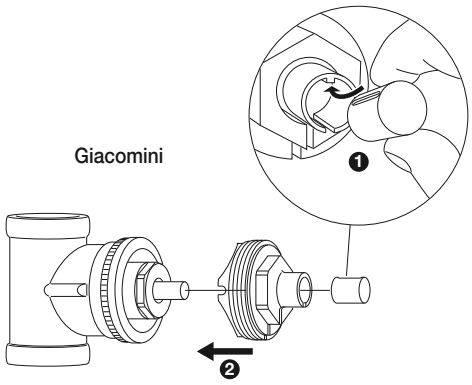
Caleffi



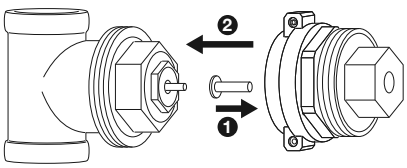
FAR

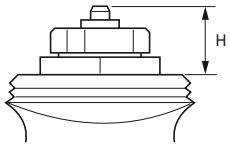


Giacomini



M28x1.5





		H
17 mm	Herz MMA Remagg	ca. 8,5 - 10 mm
15 mm	Other	ca. 10 - 12 mm

		H
24 mm	SAM Slovarm	ca. 1,0 - 3,0 mm
18,5 mm	TA Comap Markaryds	ca. 6,5 - 8,5 mm

VALVE COMPATIBILITY TABLE

Manufacturer	Radiator model	Hooking on	Is an adaptor required?
Caleffi		Ø 23 mm	yes
Caleffi		M30 x 1.5 mm	no
Danfoss	RAS CK	M30 x 1.5 mm	no
Danfoss/Honeywell	RA-A, B, C T2000/ T6000/ T3000/ RAS C2	Ø 23 mm with marks	yes
Danfoss	RAV	Ø 34 mm with 4 marks	yes
Danfoss	RAVL	Ø 25.5 mm with 4 marks	yes
Danfoss	RTD	M30 x 1.5 mm	yes
FAR		M23 x 1.5 mm	yes
Giacomini		Ø 26.6 mm	yes

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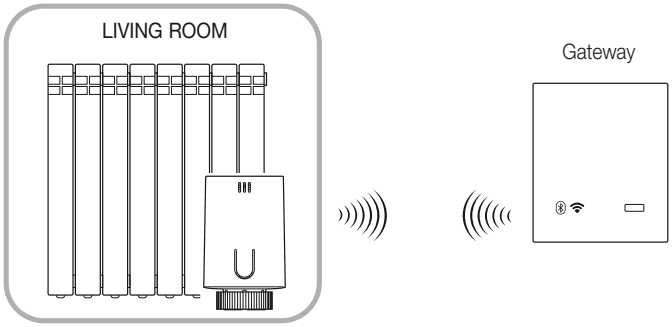
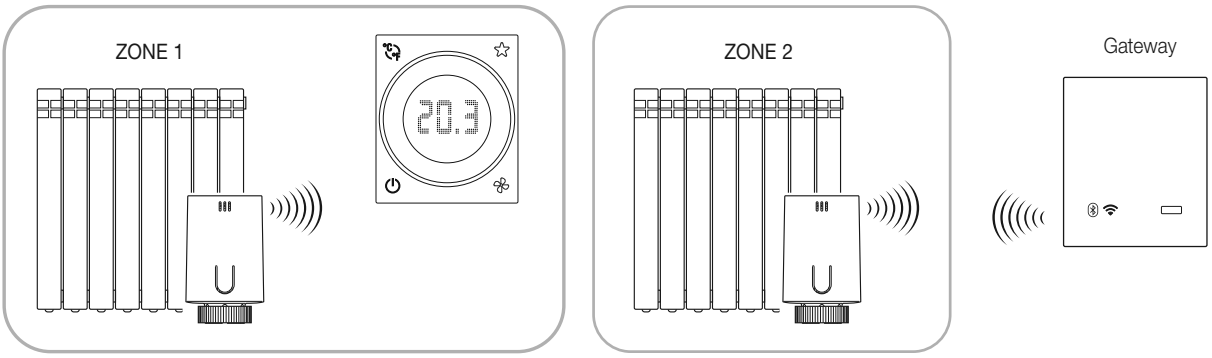
EXAMPLE OF USE

1. Climate control zone management from head



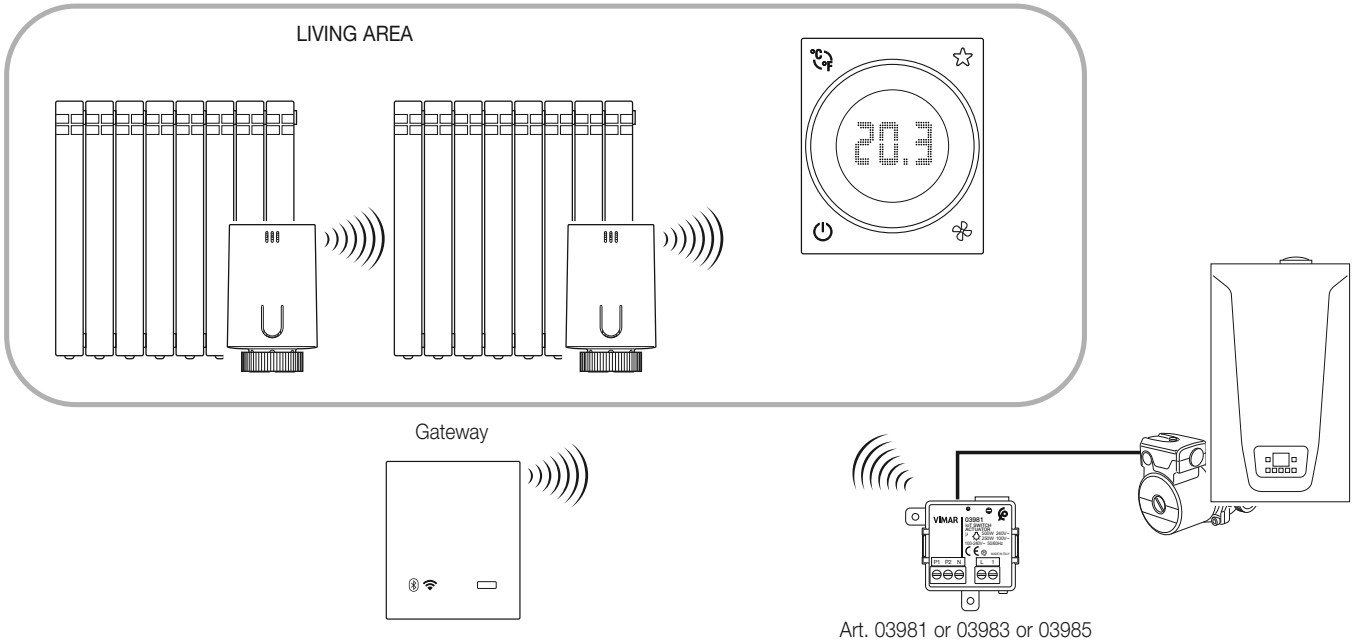
The head should be configured as independent and it does not require the creation of a group in the View Wireless App

2. Climate control from thermostat associated with head



The ZONE 1 head should be configured as “Associated with thermostat”.
The ZONE 2 head should be configured as independent.
This type of application can only be “Winter” and is configured in the View Wireless App by creating the Climate Control group ➡ Remote actuators and Heads ➡ Winter ➡ Relay

3. Climate control from thermostat associated with two heads and one relay for “zone consent”



Configure the heads as “Associated with thermostat”.
This type of application can only be “Winter” and use one of either art. 03981, 03983 or 03985 to control the valves.
In the View Wireless App, create the Climate Control group ➡ Remote actuators and Heads ➡ Winter ➡ Relay

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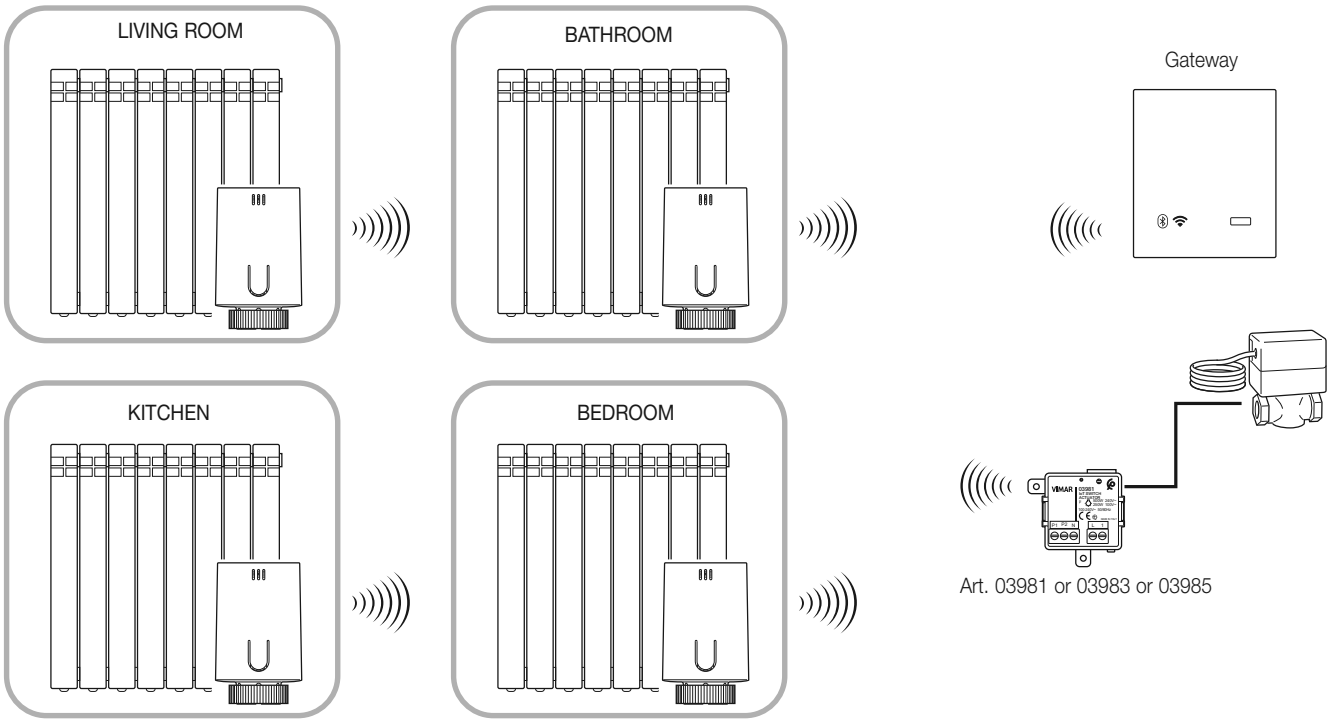
4. Winter circulation pump management from thermostat and/or head and one relay



This type of application can only be “Winter” and requires that at least one thermostat and head are independent.
One of either art. 03981, 03983 or 03985 should be used to control the circulation pump and a “Circulation pump” group needs to be created, including the relay and the heads.
Although the presence of art. 03981, 03983 or 03985 is optional for the application, it is necessary since it is the only mains powered device that can act as a repeater.
In the View Wireless App, create the Climate Control group ➡ Circulation pump ➡ Winter

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