

K470W



Energy
Management

K470WX011 wireless head for radiator

Datasheet
1069EN 12/2021



K470W wireless head for radiator, quiet, compact and technologically advanced device, it measures no more than a normal thermostatic head.

Operation in combination with **KD410 Connect-TRV** control unit, for the remote management of heating system (KLIMAdomotic TRV series).

The head is equipped with a M30x1,5 mm ring nut connection and an adaptor for use with a wide range of radiator valves.

NOTE. The K470WX011 head is not suitable for installation on DB series radiator valves.

Versions and product codes

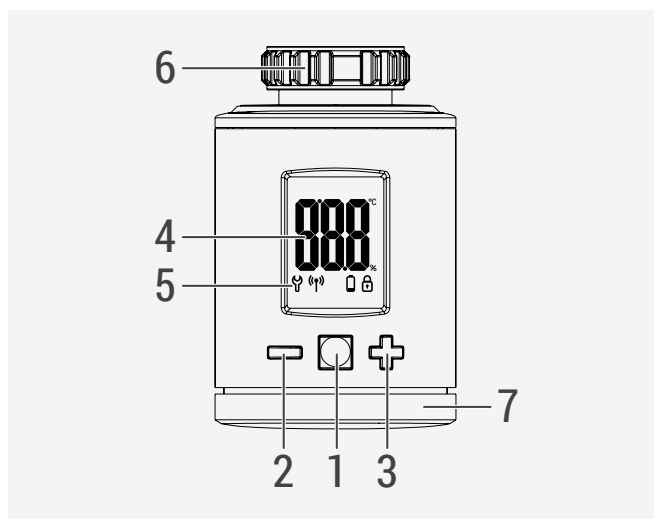
PRODUCT CODE	CONNECTION
K470WX011	M30 x 1,5 mm threaded ring nut + R453HY012 adaptor for other radiator valves (except DB series valves)

Technical data

- Communication Standard: HA 1.2 ZigBee
- Radio frequency: 2,4 GHz
- Power supply: 2 batteries 1,5 V, AA type
- Protection degree: IP20
- Degree of contamination: 2
- Temperature control range: 5÷30 °C
- Working temperature: 0÷50 °C
- Storage temperature: -20÷70 °C
- Type of casing: white ABS
- Valve connection: M30x1,5 mm, with R453HY012 adaptor for other Giacomini valve bodies (except DB series valves)
- Operation in combination with **KD410 Connect-TRV** control unit, for the remote management of heating system (KLIMAdomotic TRV series)

WARNING. Use alkaline batteries only.
Do not use any type of rechargeable battery.

Components



1	Boost button
2	Button "-" decreases temperature
3	Button "+" increase temperature
4	LCD display
5	Active mode icons
6	M30 x 1,5 mm ring nut
7	Battery compartment

Operation

The K470W wireless head works only in combination with the **KD410 Connect-TRV control unit** for remote management of the heating system (KLIMAdomotic TRV series).

⚠ WARNING. Keeping the KD410 Connect-TRV off for long periods can cause an higher consumption of the batteries of the K470WX011 head for radiators.

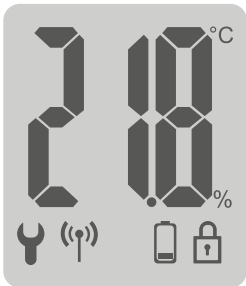






Function buttons

BUTTON	STATUS	FUNCTION
	Press once	Reduce the target temperature by 0,5 °C
	Press and keep pressed in	Immediately reduce the target temperature by 0,5 °C, then reduce it by 0,5 °C every 0,5 seconds as long as the button remains pressed in or the end value is reached
	Press once	Increase the target temperature by 0,5 °C
	Press and keep pressed in	Immediately increase the target temperature by 0,5 °C, then increase it by 0,5 °C every 0,5 seconds as long as the button remains pressed in or the end value is reached
	Press once	<ul style="list-style-type: none"> • Execute the displayed function • Switch to boost mode • Terminate boost mode if in boost mode
	Keep pressed for 10 s	The duration during which the buttons are pressed is displayed Release after 10 seconds; the device enables a works reset to be carried out
	Keep pressed together for 3 s	Activate or deactivate the "child safety lock"

Boost button

LED COLOR	STATUS	FUNCTION
	Flashing	Software update is being carried out. A controlling of the temperature is not possible
	Permanently illuminated	Error when taking into operation
	Flashing	The user is to provide confirmation. Is used in order to start processes
	Illuminated for 5 seconds	A process has been successfully completed

Display LCD

ICONS	MEANING
	 Provides information on mechanical processes
	 Provides information on the radio connection and add-in procedures Is activated if there is a radio connection Deletes if there is no longer a radio connection
	 Illuminated if the battery power is below 15%
	 Illuminated if the child safety lock has been activated
	 Illuminated permanently in combination with the target temperatures
	 Illuminated permanently in combination with set-points

Target temperature setting

The desired temperature can be set via the KD410 Connect-TRV control unit for remote management of the heating system (KLIMAdomotic TRV series).

Child safety lock function

The child safety lock can be activated/deactivated by pressing the + and - buttons for 3 seconds.

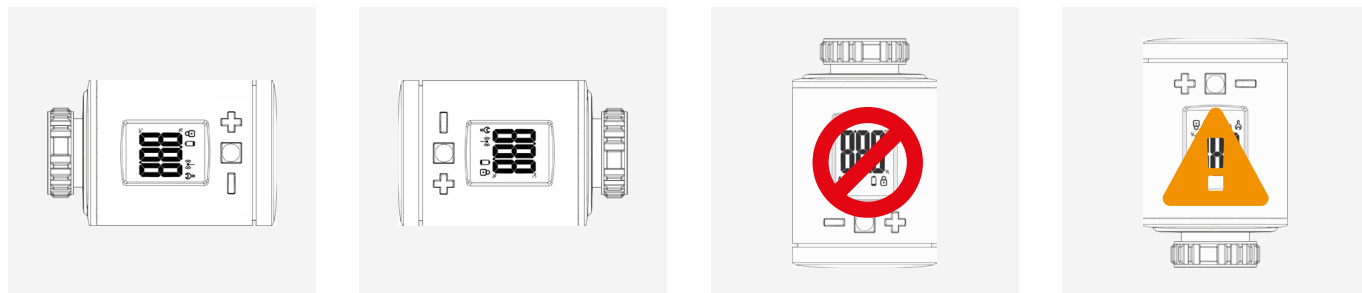
Boost function

Activate/deactivate the Boost function by pressing the Boost button.

Alternatively, press the + button until the message ON appears on the display.

➤ Head installation and removal

Allowed installation positions



⚠ This position is not recommended due to the influence of the radiator temperature on the wireless head.

Commissioning

The K470W head is not factory associated with a KD410 control unit.

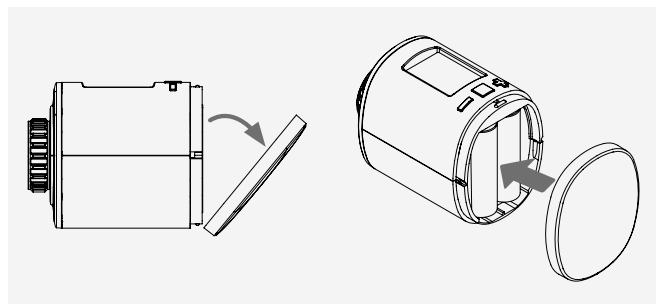
For correct operation, the head must be associated with a KD410 Connect-TRV control unit.

The head can be removed from the KD410 Connect-TRV at any time.

The pairing and removal procedures must be initiated from the KD410 Connect-TRV.

🔧 **NOTE.** To associate or remove a K470W head to the control unit, refer to the KD410 Connect-TRV user manual.

Inserting batteries



Remove the cover by pressing upwards on the indicated point and unhook it.

Insert the batteries. Pay attention to the correct polarity.

At a later battery change, the configuration of the K470W head is maintained.

Connection of the K410W head to the KD410 control unit

After the batteries have been inserted, PrP is displayed and the head prepares itself for the installation.

The head is factory set in "association" mode, as indicated by the word Jin and the symbol (🔊) on the display.

Go to the KD410 control unit and associate the new wireless head.

If the LED of the Boost button lights up green, it means that the association with the KD410 has been successful.

Press the Boost button to continue; the installation of the head on the radiator valve can be done when the LCD display shows InS.



If the LED of the Boost button lights up red and the display shows ERR, it means that the association with the KD410 has failed. Press the Boost button to eliminate the error and repeat the procedure.

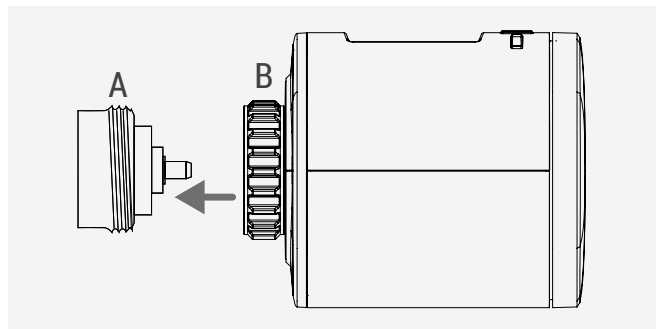
Installation of the K470W head on the radiator valve

When the "head - control unit" association is completed successfully, the Boost button LED flashes green and the LCD display shows InS.

At this point **do not press the Boost button** but install the head on the radiator valve.

Installation on Giacomini valves with thermostatic option with M30 x 1.5 mm connection (H and HDB series)

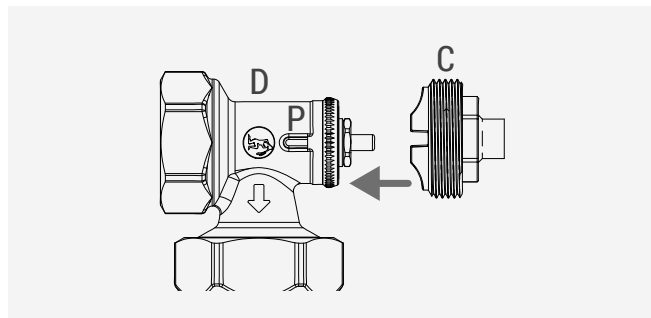
Screw the ring nut (B) of the head onto the radiator valve (A).



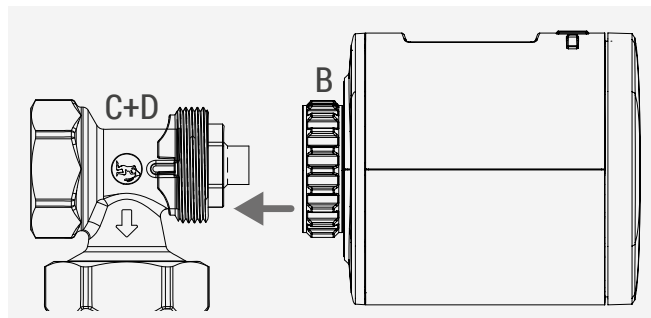
Installation on other Giacomini valves with thermostatic option (except DB series valves)

For installation on other Giacomini valve bodies with thermostatic option, use the R453HY012 ring nut included in the head package.

Install the threaded ring nut (C) hooking it to the reference pins (P) on the radiator valve (D).



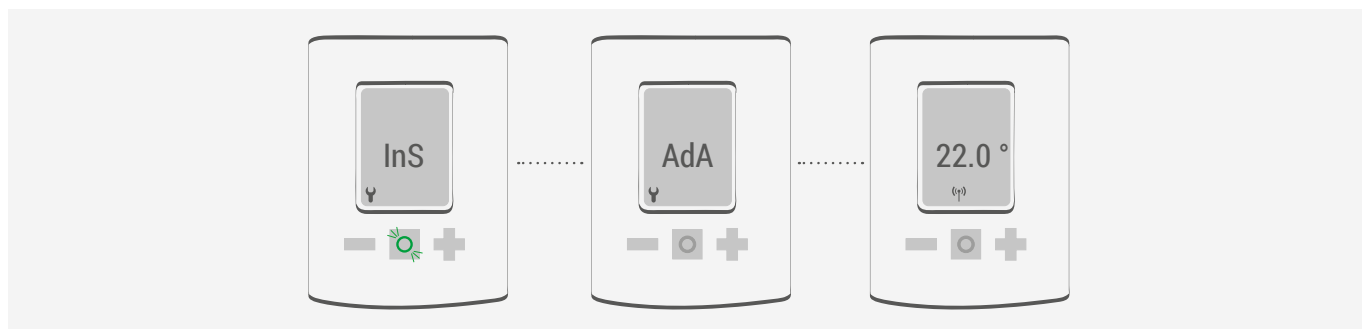
Screw the ring nut (B) of the head on the radiator valve (C + D).



Adaptation of the K410W head on the radiator valve

When installation is complete, press the Boost button with a flashing green LED to begin adapting the head stem to the radiator valve. The display shows the message AdA.

If the display will show the target temperature, it means that the adaptation has been performed successfully.



If the Boost button LED lights up red and the display shows ER1, it means that the adaptation has failed. Press the Boost button to eliminate the error and repeat the procedure.

Removing the K470W head from the radiator valve (factory reset)

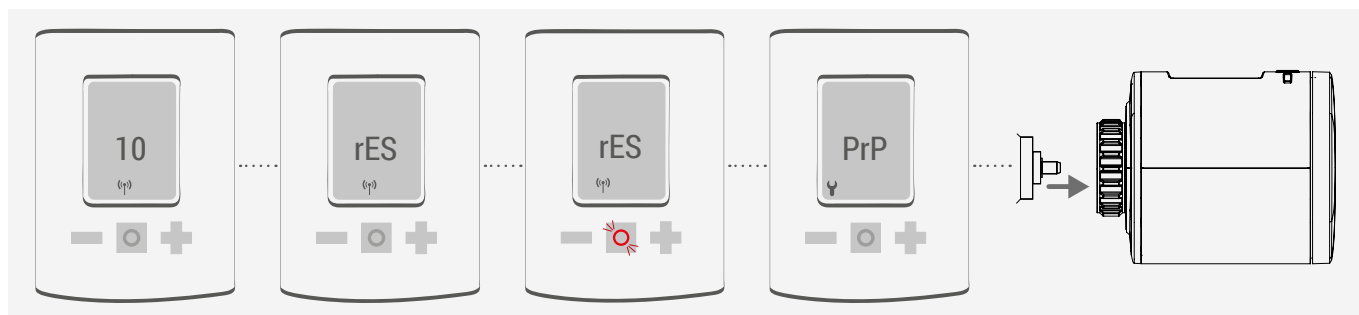
Before removing the head from the radiator valve it's necessary to disassociate it from the KD410 control unit.

Press the Boost, + and - buttons until the count on the LCD display reaches 10 and then the text rES is displayed with the Boost button LED flashing red.

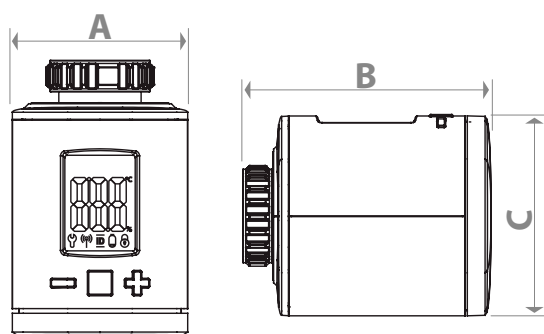
Now release the buttons. Reset to factory settings begin after a few moments.

The LCD display will show PrP and the head stem will move to the installation position.

Remove the head from the radiator valve by unscrewing the ring nut.



➤ Dimensions

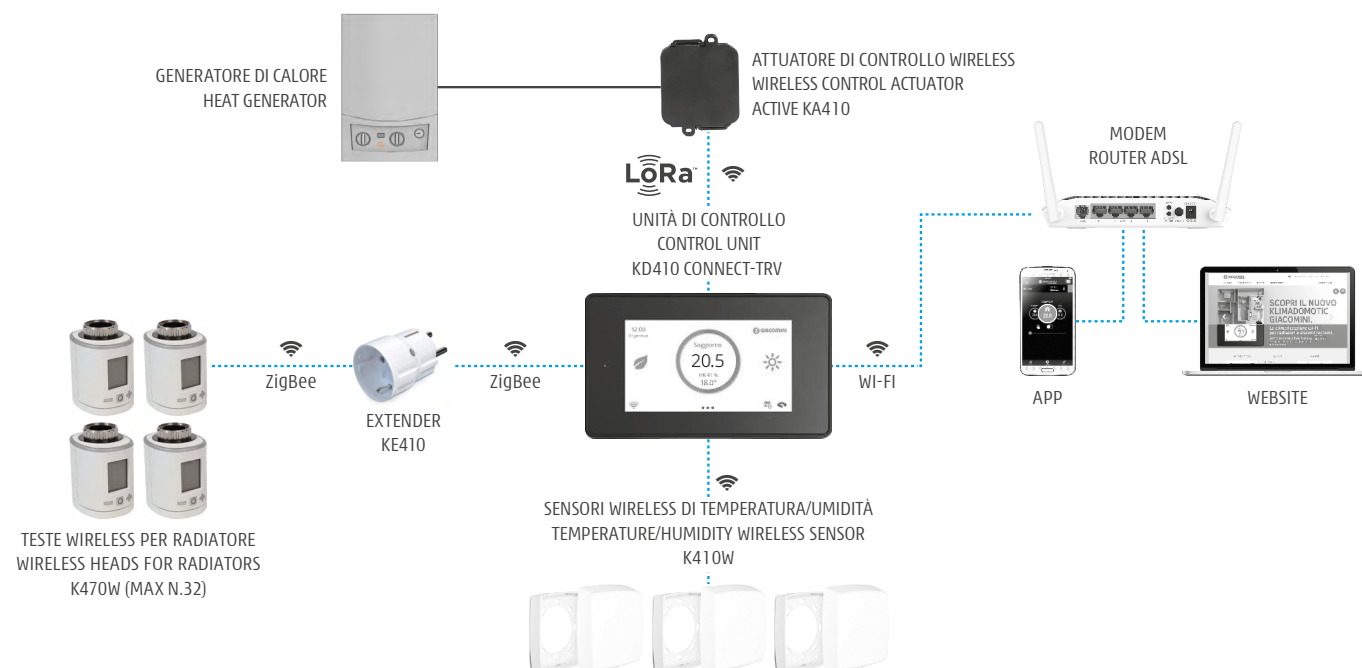


PRODUCT CODE	A [mm]	B [mm]	C [mm]
K470WX011	56	89	68

➤ Standards reference

The K470W wireless head meets the requirements of the EMC Directive 2014/53 / EU.

➤ Application example with KLIMAdomotic products



➤ Product specifications

K470WX011

Wireless head for radiator. Communication Standard: HA 1.2 ZigBee. Radio frequency 2.4 GHz. M30 x 1.5 mm ring nut connection, supplied with adaptor for other valve bodies (except DB series valves). LDC display and multifunction buttons. Power supply: 2 batteries 1.5 V, AA type. Protection degree: IP20. Degree of contamination: 2. Temperature control range: 5÷30 °C. Working temperature 0÷50 °C. Storage temperature -20÷70 °C. White ABS casing. Dimensions 56 x 89 x 68 mm. Complies with the EMC Directive 2014/53/EU. Operation in combination with the KD410 Connect-TRV control unit for remote management of the heating system (KLIMAdomotic TRV series).

⚠ Safety Warning. Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

♻ Package Disposal. Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

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