

HERZ Thermiq

Datasheet collection

Datasheet for 3 F820 XX, Issue 1025

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HERZ Thermiq Technological heart of your home

General information

□ Description of HERZ Thermiq

HERZ Thermiq is the advanced solution for intelligent temperature control, seamlessly integrating modern comfort with HERZ heating and cooling technology. The HERZ Thermiq family represents a complete ecosystem for smart regulation – whether wired or wireless, for heating only or for combined heating and cooling applications.

The system can be flexibly configured to match any installation requirement and consists of a Smart internet gateway (Connect), central controller (FloorHub), room thermostats, actuators, and various sensors. Communication between devices is based on secure Zigbee or Wi-Fi protocols, ensuring reliable and energy-efficient operation.

HERZ Thermiq does not only distribute control signals – it intelligently manages temperature according to user preferences, schedules, and environmental conditions. The FloorHub enables zone-based regulation, while advanced thermostats with touch displays or minimalist interfaces precisely measure room temperature. Optional sensors can also monitor window status or water leakage, contributing to safety and system efficiency.

Through the HERZ Thermiq App, users can conveniently control all connected devices from anywhere, set programs, and monitor energy consumption in real time. Combined with HERZ manifolds, valves, and pump groups, the Thermiq range provides a complete smart comfort solution for residential and commercial buildings.

HERZ Thermiq — Technological heart of your home.

☑ EG-Conformity

By affixing the CE mark to the unit the manufacturer declares that the HERZ Thermiq conforms to the following relevant safety regulations:

- EU low voltage directive 2014/35/EU
- EU electromagnetic compatibility directive 2014/30/EU
- EU RoHS Directive 2011/65/EU
- EU WEEE Directive 2012/19/EU (Reg.nr. DE 23479719)

Conformity has been verified and the corresponding documentation and the EU declaration of conformity are kept on file by the manufacturer.

☑ General Instructions

Please read carefully!

These installation and operating instructions contain basic instructions and important information regarding safety, installation, commissioning, maintenance and the optimal use of the unit. Therefore these instructions must be read and understood completely by the installation technician/specialist and by the system user before installation, commissioning and operation of the unit.

Install the HERZ Thermiq products only in dry areas and under the ambient conditions described in "Specifications".

In addition, observe the applicable accident prevention regulations, the regulations of the Association of Electrical Engineering, the local power supply utility, the applicable DIN-EN standards and the installation and operating instructions for the additional system components.

Installation, electrical connection, commissioning and maintenance of the device may only be carried out by an appropriately trained specialist.

Users: Make sure that the specialist gives you detailed information on the function and operation of the unit. Always keep these instructions in the vicinity of the unit. The instructions are supplied with each product and should be stored nearby for future reference.

The manufacturer does not take over any liability for damage caused through improper usage or non-compliance of this manual!

Before working on the unit, switch off the power supply and secure it against being switched on again! Check that there is no power flowing! Electrical connections may only be made by a specialist and in compliance with the applicable regulations. The unit may not be put into operation if there is visible damage to the housing, e.g. cracks.



□ Changes to the HERZ Thermiq products

- Changes, additions to or conversion of the unit are not permitted without written permission from the manufacturer.
- · It is likewise forbidden to install additional components that have not been tested together with the unit.
- If it becomes clear that safe operation of the unit is no longer possible, for example because of damage to the housing, turn the Unit off immediately.
- Any parts of the unit or accessories that are not in perfect condition must be exchanged immediately.
- Use only original spare parts and accessories from the manufacturer.
- Markings made on the unit at the factory must not be altered, removed or made illegible.
- Only the settings described in these instructions may be set using the HERZ Thermiq products.

Changes to unit can compromise the safety and function of the unit or the entire system.

☑ Warranty and Liability

The Unit has been manufactured and tested with regard to high quality and safety requirements. The warranty and liability shall not include, however, any injury to persons or material damage that is attributable to one or more of the following causes:

- Failure to observe these installation and operating instructions
- · Improper installation, commissioning, maintenance and operation
- Improperly executed repairs
- Unauthorized structural changes to the unit
- Use of the device for other than its intended purpose
- Operation above or below the limit values listed in the ,Specifications' section
- Force majeure

☑ Disposal and Pollutants

The unit conforms to the European RoHS 2011/65/EU for the restriction of the use of certain hazardous substances in electrical and electronic equipment.

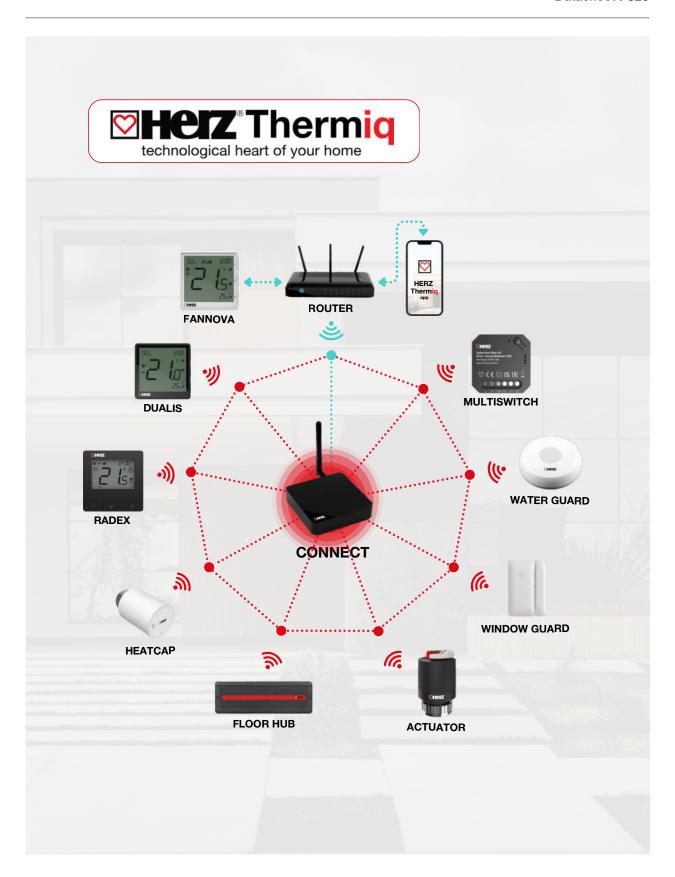
For disposal, according to the WEEE Directive 2012/19/EU, the Herz Thermiq products do not belong in household waster under any circumstances. Dispose of Herz Thermiq products only at appropriate collection points or ship it back to the seller or manufacturer.



HERZ Thermiq

Network

Datasheet F820





□ Connectivity in the HERZ Thermiq System

The HERZ Thermiq system offers flexible communication options, allowing connection through three different versions, depending on the product type:

- Wired
- Wi-Fi
- Zigbee

Each version ensures reliable data exchange between room controllers, actuators, and the central control unit, while maintaining compatibility across the HERZ Thermiq ecosystem.

☑ Zigbee Communication

Zigbee is a wireless communication protocol based on the IEEE 802.15.4 standard, operating in the 2.4 GHz frequency band. It uses a mesh network topology, providing wide coverage and high reliability. The typical direct communication range between two devices is approximately 100 m in open space.

Devices in a Zigbee network are divided into:

- Coordinator the main control unit (only one per network) managing communication with all connected devices.
- Router (Repeater) a 230 V AC powered device that forwards data packets, extending the network range.
- End Device (Terminal Device) a battery-powered unit communicating with the coordinator, entering sleep mode to reduce energy consumption.

Zigbee features secure, encrypted communication and complies with ISO 27001 and SSAE16 / ISAE 3402 Type II – SOC 2 certifications, ensuring reliable data transfer and protection against interference.

Creating a Zigbee network – four steps:

- 1. Install the gateway (Thermiq CONNECT) as the network coordinator.
- 2. Add the first 230 V AC powered device near the gateway.
- 3. Extend the range by adding more powered devices (routers).
- 4. Connect battery-powered devices and sensors to complete the network.

All Zigbee-based devices communicate locally with the gateway, which then connects the entire system to the HERZ Thermiq App.

☑ Wi-Fi Communication

In the HERZ Thermiq system, Wi-Fi communication is supported by the FanNova thermostat, which includes an integrated Wi-Fi module enabling a direct connection to the Internet router — without requiring a gateway. In general, Wi-Fi devices operate independently, communicating directly with the cloud via the home network.

By contrast, Zigbee devices require a Smart Gateway (Coordinator) to connect to the Internet, as the gateway acts as a bridge between the local Zigbee network and the external Wi-Fi network/cloud.

This architecture ensures a stable, secure, and scalable solution for remote control and monitoring, while maintaining full local functionality even if the Internet connection is temporarily unavailable.

☑ Wired Communication

Many HERZ Thermiq products are available with wired connectivity, enabling direct cable connection between room thermostats, actuators, and control modules. Actuators and electronic distributors can also be connected via cable, ensuring a stable and interference-free data exchange.

HERZ recommends using wired connections whenever possible, as they provide the highest level of reliability, instant signal response, and no risk of wireless interference. If a wired connection is not feasible, HERZ offers a highly reliable Zigbee alternative, ensuring equally stable and secure communication.

Please refer to the individual product documentation for details on which models support wired or Zigbee communication.



HERZ Thermiq APP

Application for Smartphone

Datasheet F820

The HERZ Thermiq App is an advanced mobile application designed to provide complete control and monitoring of HERZ smart devices. It enables intuitive management of room thermostats, actuators, gateways, and additional smart accessories — all within one unified platform.

- Remote Access: Monitor and control your HERZ smart devices anytime and anywhere via a secure cloud connection.
- Flexible Connectivity: Devices can communicate through wired connections or Zigbee protocol.
- Automation & Scenarios: Create personalized schedules and automation scenes to optimize comfort, efficiency, and energy savings.
- Integration with Voice Assistants: Compatible with Google Home and Amazon Alexa for convenient voice control.
- Smart Gateway Support: The HERZ Thermiq Gateway connects Zigbee-based devices to the Wi-Fi network, enabling centralized app control.

System Compatibility

The HERZ Thermiq App supports a wide range of HERZ devices, including:

- Room thermostats (wired and Zigbee versions)
- Actuators and electric distributors
- Temperature and humidity sensors
- Gateways and additional smart accessories

☑ App Setup

- Download HERZ Thermiq from Google Play or Apple App Store.
- Create your personal account and confirm registration via the activation email.
- Connect your HERZ Gateway to the Wi-Fi network following the installation instructions.
- Add your devices to the app.
- Manage rooms, temperature settings, and automation rules directly in the app.

The HERZ Thermiq App brings comfort, reliability, and intelligent control to your heating and cooling environment — fully aligned with HERZ's tradition of quality and innovation.



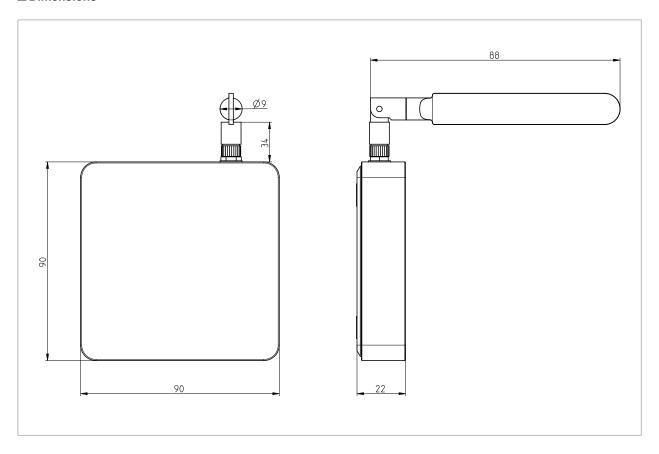


HERZ Thermiq CONNECT

Smart Internet Gateway

Datasheet 3 F820 71

☑ Dimensions



Order Nr.	Туре	Power supply	L1 [mm]	L2 [mm]	H [mm]	
3 F820 71	Thermiq Connect	5V DC USB type C	90	90	22	

☑ Technical Data

Electrical specifications:

Power Supply 5V DC USB type C

Communications:

With the HERZ Thermiq system: ZigBee 3.0 2,4GHz and Wi-Fi 2,4GHz With the HERZ app (through the router) Wi-Fi 2,4GHz or Ethernet (RJ45)

Scope of Supply

- HERZ Thermiq Connect Smart Internet Gateway
- Charger (USB type C)
- HERZ Thermiq Connect installation guide
- SIM ejector tool



☑ Field of application

The HERZ Thermiq Connect is the central communication hub of the HERZ Thermiq system. It serves as the core device to which all other smart components—such as thermostats, actuators, and sensors—are connected. By linking wired and wireless devices into a unified network, it ensures reliable data exchange and coordinated operation of the entire system.

The HERZ Thermiq Connect is designed for easy configuration and flexible communication. Network setup and communication methods can be configured quickly and intuitively, allowing the user to choose between Wi-Fi or LAN connection. The device is equipped with an Ethernet (RJ45) port and LED indicators that display the current operating status. It is powered by 5 V DC via a USB Type-C connection.

An external antenna ensures an extended communication range, while the system also supports migration of network settings to a new device without any loss of data. Communication channel settings can be adjusted directly from the device interface, minimizing potential interference from other nearby devices.

The HERZ Thermiq Connect operates on the Zigbee 3.0 standard, enabling seamless integration with compatible devices operating under the Tuya ecosystem. Furthermore, it supports Google Home and Amazon Alexa voice assistants, allowing convenient and intelligent control through voice commands.

Product highlights

- Integrated external antenna to extend the range of the Zigbee 3.0 network.
- Easily overcomes reinforced concrete ceilings or several partition walls.
- Simple operation devices can be added to the Zigbee network quickly and intuitively.
- Advanced interference cancellation communication channels can be adjusted directly from the interface.
- Suitable for wall-mounted or free-standing installation.
- Offline operation possible in case of temporary network interruption.

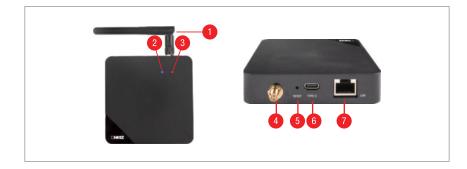
Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions.

For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ Gateway description

- 1. Antenna
- 2. Blue diode
- 3. Red diode
- 4. SMA antenna socket
- 5. RESET button
- 6. USB power socket type C
- 7. LAN Ethernet input (RJ45)



☑ Internet gateway operating modes

The ZigBee gateway can communicate over the internet with the cloud in two ways:

- 2.4 GHz Wi-Fi network
- Ethernet network via LAN cable

Red diode	Blue diode	Device status
Lights on continously	Lights on continously	Immediately after switching on the power supply, both LEDs light up continuously for a few seconds or immediately after a factory reset of the device

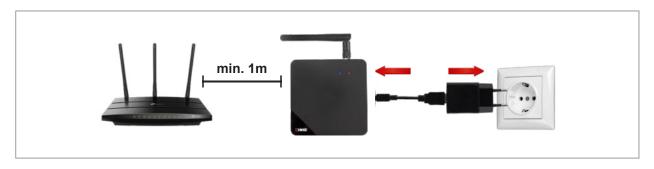


Flashes slowly	Lights on continuously	A few seconds after switching on, the gateway is ready for pairing with the application
Lights on continuously	Does not light Connected to the cloud	
Lights on continuously	Flashes	ZigBee network is opened - searching for devices
Does not light	Does not light	No power supply

☑ Installation

ATTENTION: A minimum distance between the router and gateway of 1m is recommended to avoid WiFi and Zigbee interference.

ATTENTION: Connect the gateway to a 230V AC power supply, use the supplied plug and USB cable only.



☑ Installation of the gateway in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.



STEP 1 - DOWNLOAD HERZ THERMIQ APP

Download the HERZ Thermiq app from Google Play or Apple App Store and install it on your smartphone.



STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:

- Click "Sign Up" to create new account.
- Enter your e-mail address to which the verification code will be sent.



 Enter the verification code received in the email.
 Remember that you only have 60 seconds to enter the code!



Then set the login password.



☑ Installation of the internet gateway via lan cable

After installing the app and creating an account:



On the mobile device, make sure that the HERZ Thermiq app has access to the permissions (Location, Bluetooth, Nearby devices). Then turn on Bluetooth and location. Connect to that 2.4 GHz Wi-Fi network to which you want to assign the gateway (Wi-Fi and wired Ethernet must be one network - from the same router).



- Make sure the device is connected to the power supply and to the Internet via the cable (2).
- Then press and hold the RESET button (1) (using the pin provided) for 10 seconds. The red LED must flash slowly, then the gateway is in pairing mode. If the red LED flashes quickly, then press the RESET button again for 10 seconds, wait a moment and make sure that the red LED flashes slowly.



In the app, select: "Add Device"



After finding the gateway, go "Add"



Wait for the app to configure the device.



• Go "DONE".







The gateway has been installed and displays the main interface.

On the device, the red LED lights up continuously.

☑ Installation of the internet gateway using a 2.4 GHz Wi-Fi network

After installing the app and creating an account:

- On the mobile device, make sure that the Herz Thermiq app has access to the permissions (Location, Bluetooth, Nearby devices). Then turn on Bluetooth and location. Connect to that 2.4 GHz Wi-Fi network to which you want to assign the gateway.
- Make sure the unit is powered on. Then press and hold the RESET button (1) (using the pin provided) for 10 seconds. The red LED must flash slowly, then the gateway is in pairing mode.
- If the red LED flashes quickly, then press the RESET button again for 10 seconds, wait a moment and make sure the red LED flashes slowly.
- In the app, select: "Add Device"
- Go to the "Gateway Control" tab, then select "Thermiq CONNECT Gateway (Zigbee)".





Click "Cable".



Check the required field and go "Next".

Select "AP Mode".



 Select the Wi-Fi network in which the gateway will operate and enter the password of this network.





Click "Go to Connect".



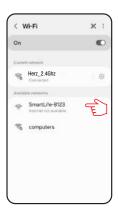
Once the network has been configured, select "Connect only this time", then click "Back".



Go "DONE".

☑ Adding devices to the gateway in offline mode

To start pairing the gateway with ZigBee devices, click the RESET button (1).



 The device will go to the Wi-Fi network settings screen. Select the "SmartLife-XXXX" network and connect to it.



• Wait for the app to configure the device.



 The gateway has been installed and displays the main interface. On the device, the red LED lights up continuously.





The blue LED will start flashing, indicating that the ZigBee network is "open" (you can add devices to the gateway). After adding all ZigBee devices, click the "RESET" button on the gateway again. The blue LED will stop flashing and turn on solid, indicating that the ZigBee network is "closed".

ATTENTION:

ZigBee devices can only be added when the network is "open" (when the LED flashes blue). To learn how to synchronize individual ZigBee devices with the Gateway refer to the manual of the respective device.

☑ Factory reset

To restore the default settings of the device, press the RESET button (1) and hold it for approx. 10 seconds - until both LEDs light up. Then release the button, the universal internet gateway will restore the default (factory) values and the pairing process will begin.









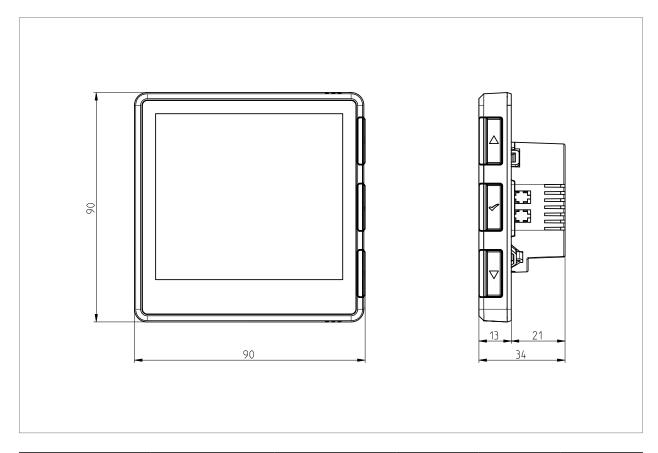


HERZ Thermiq FanNova

Smart Thermostat for FanCoils

Datasheet 3 F820 4X

☑ Dimensions



Order Nr.	Color	Power supply	L1 [mm]	L2 [mm]	H [mm]
3 F820 41	Black	230V AC 50 Hz	90	90	34
3 F820 42	White		30	30	34

☑ Technical Data

Electrical specifications:

Power Supply 230V AC 50 Hz

Measurement range

Setpoint temperature range $5,0^{\circ}\text{C} - 45,0^{\circ}\text{C}$ Accuracy $+/-0,5^{\circ}\text{C}$

Communication

With the HERZ Thermiq Connect Wi-Fi 2,4GHz With the HERZ Thermiq FloorHub Wi-Fi 2,4GHz



Input A+ / B- Modbus RS-485

Inputs S1/COM, S2/COM – temp. sensor or volt free contact

Valve control outputs V1, V2 - 230V AC, 5(2)AFan control outputs F1, F2, F3 - 230V AC 5(2)A

Control algorithm Delta FAN, Histeresis (from ±0,1°C to ±2°C), TPI (for underfloor

heating)

Scope of Supply

• HERZ Thermiq FanNova Thermostat

HERZ Thermiq FanNova installation guide

Screws kit

☑ Field of application

The HERZ Thermiq FanNova controller offers advanced control for fan coil units and trench heaters, supporting both 2-pipe and 4-pipe configurations. Designed for modern comfort management, it ensures precise temperature and humidity regulation through optimized control algorithms. The controller provides flexible operation of 3-speed 230 V fans, automatically adjusting fan speed based on demand. Integrated frost and overheat protection functions enhance safety, while the built-in ECO mode helps reduce energy consumption and operational costs.

The device communicates via Wi-Fi 2.4 GHz and MODBUS RS-485, enabling seamless integration into smart control systems. Its intuitive user interface and simple configuration process make installation quick and convenient for professionals. With support for mixed installations—such as fan coils combined with underfloor heating—the FanNova offers versatile functionality suitable for both residential and commercial applications.

☑ Product highlights

- Universal controller for various heating and cooling devices
- Compatible with 2-pipe and 4-pipe fan coil or trench heater systems
- Auto Heat/Cool mode for seasonal switching
- Flexible control of 3-speed 230 V fans with automatic adjustment
- Integrated frost and overheat protection functions
- Built-in ECO mode for optimized energy efficiency
- Simple user interface and intuitive setup for installers
- Communication via Wi-Fi 2.4 GHz and MODBUS RS-485 for smart integration

☑ Safety information and installation

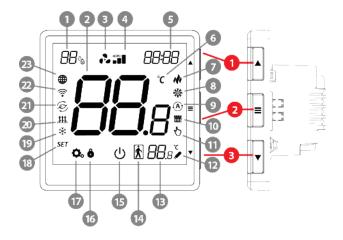
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For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ LCD icons description + Button description

LED icon description

- 1. Humidity display
- 2. Room temp
- 3. Fan icon (it is animating when fan is running)
- 4. Fan Speed (LO, ME, HI, AUTO, OFF)
- 5. Clock
- 6. Celcius unit
- 7. Heating mode icon
- 8. Cooling icon
- 9. AUTO Heat/Cool active





- 10. Schedule icon
- 11. Manual or temporary override mode
- 12.Pipe sensor (2-PIPE) or external temp sensor
- 13. Temp value of the additional sensor
- 14. Occupancy sensor -conencted to S2-COM
- 15. Power OFF icon
- 16. Key lock
- 17.Parameters icon
- 18. Setting icon (set value icon)
- 19.Frost mode icon
- 20. Underfloor heating icon
- 21. ECO mode icon
- 22. WiFi connection
- 23. Cloud connection

Button description:

"UP" button

"OK" button

"DOWN" button

A	Change the parameter value up					
•	Change the parameter value down					
	Manual/Schedule mode - short button press (Online mode)					
~	Enter the installer parameters- hold 3 seconds					
	Turn OFF/ON thermostat - hold 5 seconds					
	Enter the pairing mode - hold 5 seconds					
▲ +▼	Enter binding mode - hold 5 seconds					
	Factory reset - hold until the FA message appears					
A+	Lock/Unlock thermostat keys - hold 3 seconds					
▼+✔	Heating/Cooling mode change - hold 3 seconds					

☑ Installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions.

For the entire installation, there may be additional protection requirements, which the installer is responsible for.



☑ Connection description

1. 2-PIPE FAN COIL (HEATING AND/OR COOLING)

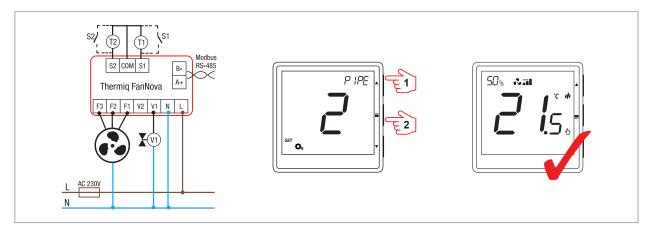
Select the 2-pipe system.

Press ▲ or ▼ button to select operating mode:

- a) 🗼 🖧 🎬 Fan coil heating in a 2-pipe system
- b) 🕸 🞝 🐃 Fan coil cooling in a 2-pipe system
- c) 💥 🏶 🞝 🐃 Fan coil heating and cooling in a 2-pipe system

Confirm your selection with **■** button.





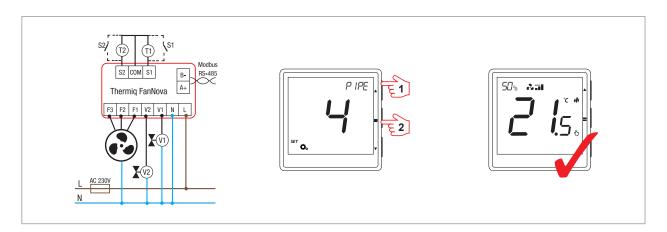
2. 4-PIPE FAN COIL (HEATING AND/OR COOLING)

Select the 4-pipe system.

Press ▲ or ▼ button to select operating mode:

- a) 🏕 🕸 🎳 Fan coil heating in a 4-pipe system

Confirm your selection with **■** button.



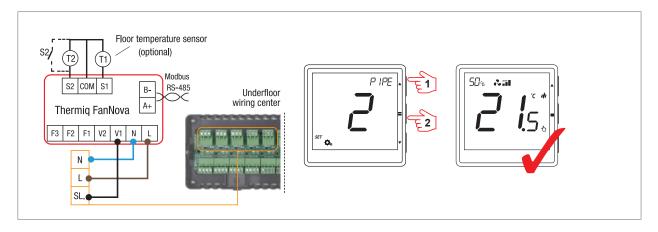
3. UNDERFLOOR HEATING

Select the 2-pipe system.

Press ▲ or ▼ button to select operating mode:

b) JIII Underfloor heating

Confirm your selection with \blacksquare button.



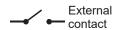


LEGEND FOR DIAGRAMS











☑ Controller connection terminals

L, N	Power supply 230V AC
F1	Output 230V AC - I low fan speed
F2	Output 230V AC - II medium fan speed
F3	Output 230V AC - III high fan speed
A+/B	Modbus RS-485 terminals
V1	2-pipe: control output 230V AC - heating and/or cooling valve 4-pipe: control output 230V AC - heating valve
V2	2-pipe: not active 4-pipe: control output 230V AC - cooling valve
S1	Volt-free input of a switch or temperature sensor Thermiq Heat Guard on the pipe (change of heating/cooling mode
S2	Volt-free switch input (for occupancy sensor - hotel card) or external temperature sensor
СОМ	GND for the sensor/contact

☑ Installer settings

1. To enter installer parameters press and hold ■ button for 3 seconds.

Use ▲ or ▼ button to move between parameters. Enter the parameter by ■ .Edit the parameter using ▲ or ▼ . Confirm the new parameter value with the ■ button.

Pxx	Function	Value	Description	Def.	
ConF	Read-only parameter	-	Preview of the current controller configuration	-	
P01	S1 - COM input configuration	0	None connected	0	
		1	Input used to change heating/cooling via contact external connected to S1-COM: - S1-COM open> HEAT mode - S1-COM short-circuited> COOLING mode		
		2	Input used for AUTOMATIC heating/cooling change based on the PIPE TEMPERATURE in a 2-pipe system. The controller switches between heating and cooling modes to pipe temperature set in parameters P17 and P18.		
		3	Fan operation permit dependent on temperature measurement on the pipe. E.g. if the temperature on the pipe is too low and the regulator is in heating mode - the pipe sensor will not allow you to start fan. The change of heating/cooling is done manually - using the buttons. Values for fan control based on pipe temperatures are set in parameters P17 and P18.		
		4	Activating the Floor Sensor in the UFH configuration		
P02	S2 - COM input	0	None connected	0	
	configuration	1	When the contacts are open switch on Eco Mode		
		2	External temperature sensor	1	
P03	Display temp accuracy	0,1°C	Indication of room temperature with an accuracy of 0,1°C	0,1°C	
		0,5°C	Indication of room temperature with an accuracy of 0,5°C		



P04	Offset temperature	-3.0°C -	If the thermostat indicates wrong temperature, you can	0°C
		+3.0°C	correct it by max ± 3.0°C	
P05	Max. temperature setpoint	5°C - 45°C	Maximum heating / cooling temperature that can be set	35°C
P06	Min. temperature setpoint	5°C - 45°C	Minimum heating / cooling temperature that can be set	5°C
P07	ECO mode	NO	Function disabled	NO
		YES	Function enabled	
P08	ECO temp value in HEAT mode	5°C - 45°C	ECO temp value in HEAT mode	15°C
P09	ECO temp value in COOL mode	5°C - 45°C	ECO temp value in COOL mode	30°C
P10	FAN Control - Delta FAN Algorithm for Heating	0,5°C - 5°C	The parameter determines the width of the temperature range in which fan operates in heating mode. If the room temperature drops: 1. When the Delta FAN value is small, the faster the fan response temperature change - faster speed increase 2. When the Delta FAN value is high, the slower the fan increases speed	
P11	Fan ON temperature in heating mode	0°C - 5°C	The fan will start operating if the room temperature drops below the set temperature by the value of parameter	
P12	Histeresis for HEATING valve	0,1°C - 2°C	Hysteresis value for the heating valve	0,5°C
P13	Heat Cool switching - Dead zone for 4-pipe system	0,5°C - 5°C	The parameter determines the width of the temperature range in which fan operates in cooling mode. If the room temperature rises: 1. When the Delta FAN value is small, the faster the fan response temperature change - faster speed increase 2. When the Delta FAN value is high, the slower the fan increases speed	2°C
P14	Fan ON temperature in cooling mode	0°C - 5°C	The fan will start operating if the room temperature rises above the set temperature by the value of parameter	0,5°C
P15	Histeresis for cooling valve	0,1°C - 2°C	Hysteresis value for the COOLING valve	0,5°C
P16	Heat Cool switching - Dead zone for 4-pipe system	0,5°C - 5°C	The value of the difference between the set temperature and the temperature of the room so that the controller automatically changes the Heating/cooling operations	2°C
P17	In a 2-pipe system, below this value the system switches to cooling mode and allows the fan to start	10°C - 25°C	Temperature sensor on the pipe - below this value, the system switches to cooling mode / allows the fan to start	10°C
P18	In a 2-pipe system, above this value the system switches to heating mode and allows the fan to start	27°C - 40°C	Temperature sensor on the pipe - above this value, the system switches to heating mode / allows the fan to start	30°C
P19	Cooling mode switching ON delay	0-15 min	Parameter used in 4-pipe systems with automatic switching between heating and Cooling. This avoids switching between modes too often heating and cooling as well as room temperature oscillations	0 min
P20	Maximum floor temperature	5°C - 45°C	In order to protect the floor, heating will be switched on, when the temperature of the floor sensor exceeds the maximum value	35°C
P21	Minimum floor temperature	5°C - 45°C	In order to protect the floor, heating will be turned off, when the temperature of the floor sensor drops below the minimum value	10°C



P22	Backlight brightness	0% - 100%	Adjustable in the range from 10 to 100%	30%
P23	PIN Code for installer	NO	Function disabled	NO
	parameters	PIN	Function enabled	
P24 Require a PIN to unlock the		NO	NO	NO
	keys every time (function active when P23=PIN)	YES	YES	
FAN	Fan	NO	Inactive - the output contacts for fan control are completely disabled	YES
		YES	Enabled	
CLR	Clear settings factory reset	NO	No action	NO
		YES	Factory reset	

☑ Installer settings - RS-485 COMMUNCATION SETTINGS

Pxx	Function	Value	Description	Default value
Addr	MODBUS Slave device address (ID)	1 - 247	MODBUS Slave Address (ID)	1
BAUD	Bitrate (Baud)	4800	Bitrate (Baud)	9600
		9600		
		19200		
		38400		
PARI	Parity bit - sets data parity	None	Lack	None
	for error detection	Even	Even	
		Odd	Odd	
STOP	Stop bit	1	1 stop bit	1
		2	2 stop bit	

Modbus RTU features 8-bit data coding. The MODBUS RTU structure uses a master-slave system to exchange messages. It allows the connection of maximum of 247 slaves, but only one master. The master controls the operation of the network and only it sends the request. The slaves do not undertake the transmission themselves. Each communication starts with making a request by the master to the slave, which responds to the master with what it has been asked. The master (computer) communicates with the slaves (controllers) in two-wire RS-485 mode. For this purpose data exchange uses data lines A+ and B-, which MUST be one twisted pair.

WARNING:

Before the controller is connected to the RS-485 network, it must first be correctly configured. Communication parameters and descriptions of MOD-BUS registers are available in the appendix on the product website https://www.herz-kovina.si/en/.

☑ Installation sensor in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.

STEP 1 - DOWNLOAD HERZ THERMIQ APP

Download the HERZ Thermiq app from Google Play or Apple App Store and install it on your smartphone.

STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:





Click "Sign Up" to create new account.



Enter your e-mail address to which the verification code will be sent.





Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!



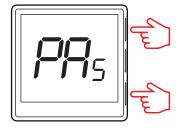
Then set the login password.

☑ Connect the thermostat to Wi-Fi

After installing the app and creating an account:



On your mobile device, make sure the ENGO Smart has access to permissions (Location, Bluetooth, Nearby devices). Then turn on Bluetooth and Location. Connect to 2.4GHz Wi-Fi network to which you want to assign the device.



Make sure the thermostat is powered on and configured. Then press and hold the buttons on the thermostat for approx. 3 seconds until the display shows "PA". Then release the keys. The pairing mode will be started up.



In the app, select: "Add device"



After finding the thermostat, go "Add".



Select the Wi-Fi network in which the thermostat will operate and enter the password of this network.



Name the device and click "Done".

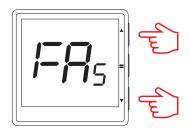




The thermostat has been installed and displays the main interface.

☑ Factory reset

To RESET controller to factory settings, hold down the \triangle & \bigvee buttons until the FA message appears. Then release the keys. Controller will restart, restore default factory settings and displays the home screen. The device will be also removed from app. Factory reset can be done within 5 minutes after power supply connection. If controller is connected longer - factory reset cannot be performed.







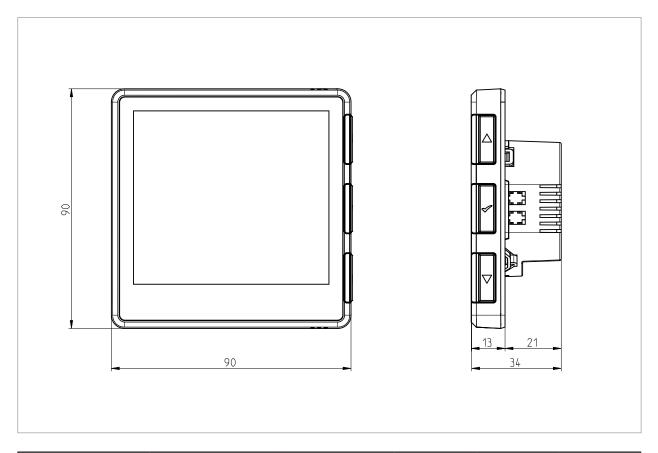


HERZ Thermiq DUALIS

ZigBee Smart Thermostat

Datasheet 3 F820 2X

☑ Dimensions



Order Nr.	Туре	Power supply	L1 [mm]	L2 [mm]	H [mm]
3 F820 21	Black	230V AC 50 Hz	90	90	34
3 F820 22	White	200 / 10 00 112		50	

☑ Technical Data

Electrical specifications:

Power Supply 230V AC 50 Hz

Maximum load 3(1) A Protection class IP30

Measurement range:

Internal temperature sensor $5.0^{\circ}\text{C} - 45.0^{\circ}\text{C}$ Accuracy $+/-0.5^{\circ}\text{C}$



Communication:

With the HERZ Thermiq Connect ZigBee 3.0 2,4GHz

With the HERZ Thermiq FloorHub ZigBee 3.0 2,4GHz or wired connection

Output control COM / NO (Volt-free)

S1/S2 multifunctional input Floor temp sensor, external air sensor, occupancy sensor

Control algorithm TPI or Histeresis (from ±0,1°C to ±2°C)

Scope of Supply

HERZ Thermiq Dualis Smart Thermostat

HERZ Thermiq Dualis installation guide

Screws kit

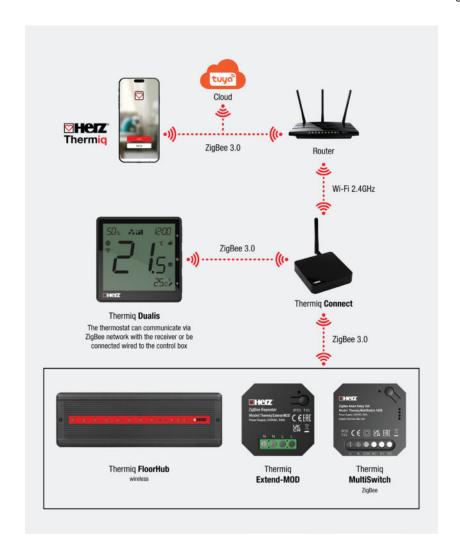
☑ Field of application

The HERZ Thermiq thermostat is designed for underfloor heating systems and can operate in both heating and cooling modes. It features a programmable relay output, allowing flexible configuration according to the application requirements.

The device continuously measures temperature and humidity, ensuring optimal comfort and energy efficiency. Communication is based on Zigbee technology, enabling secure and stable wireless data exchange within the HERZ Thermiq ecosystem.

An S1–S2 multifunctional input allows connection of an additional sensor, such as a floor temperature or external air sensor. The binding function enables a wireless and direct connection to receivers (e.g., control modules, actuators, or relays) via the HERZ Thermiq Gateway.

Devices can also be controlled via wired connection directly from the thermostat. For wireless operation, the HERZ Thermiq App and an internet gateway are required. The thermostat may also function as a standalone unit, connected by wires to the controlled device without the need for an internet gateway.





Product highlights

- Modern smartphone-inspired design
- Large, easy-to-read display with side-mounted function buttons
- Perfect fit for contemporary interiors
- Equipped with advanced control algorithms for precise temperature regulation
- Ideal for underfloor heating applications
- Programmable via the HERZ Thermiq App (using the HERZ Thermiq Connect gateway)
- Voice control supported through Amazon Alexa and Google Home
- S1-S2 input for additional sensor connection (e.g., floor or external air sensor)
- · Integrated humidity measurement and display

Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions.

For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ LCD icons description + Button description

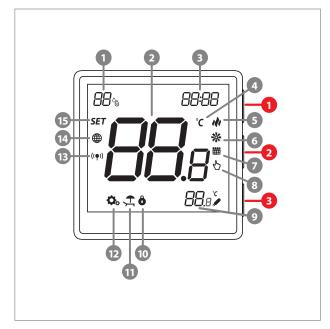
LED icon description

- 1. Current humidity reading
- 2. Current/Setpoint temperature
- 3. Clock
- 4. Temperature unit
- 5. Heating indicator (icon is animating when there is heating demand)
- 6. Cooling indicator (icon is animating when there is cooling demand)
- 7. Schedule mode icon
- 8. Temporary override mode
- 9. External/Floor or Occupancy sensor

- 10. Button lock
- 11. Holiday mode
- 12. Settings icon
- 13. Receiver binding indicator
- 14. ZigBee network connection indicator
- 15. Settings icon / temperature settings

Button description:

- 1. "UP" button
- 2. "OK" button
- 3. "DOWN" button



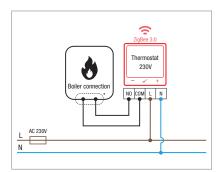
	Change the parameter value up					
▼	Change the parameter value down					
	Manual/Schedule mode - short button press (Online mode)					
~	Enter the installer parameters- hold 3 seconds					
	Turn OFF/ON thermostat - hold 5 seconds					
	Enter the pairing mode - hold 5 seconds					
▲ +▼	Enter binding mode - hold 5 seconds					
	Factory reset - hold until the FA message appears					
* + *	Lock/Unlock thermostat keys - hold 3 seconds					
▼+✓	Heating/Cooling mode change - hold 3 seconds					

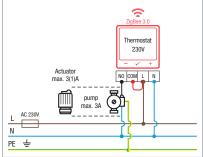


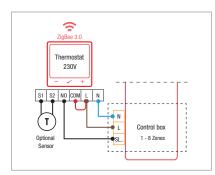
☑ Installation of the thermostat in the app

- 1. Grab the top part and the bottom part to disconnect.
- 2. Make sure that the wires are not under 230V AC.
- 3. Connect the thermostat according to the wiring diagram.
- 4. Put the thermostat in the box.
- 5. Screw the thermostat to the mounting box.
- 6. Slide the front of the thermostat into its back. Turn on the power. The thermostat is now ready for operation.

☑ Connection description







- a) Connection diagram for gas boiler
- b) Connection diagram to pump / actuator
- c) Connection diagram to the control box

ð	Boiler connection* - Boiler's contacts for ON/ OFF thermostat (according to the boiler's instructions)
මු	Pump
é	Valve actuator
(d))	Temperature sensor

L, N	230V AC power supply		
COM, NO	Voltage-free output		
S1, S2	Input terminals		
SL1 230V AC voltage input			
	Fuse		

☑ Installation of the thermostat in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.

STEP 1 - DOWNLOAD HERZ APP

Download the Herz Smart app from Google Play or Apple App Store and install it on your smartphone.



STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:



Click "Sign Up" to create new account.



Enter your e-mail address to which the verification code will be sent.



Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!



Then set the login password.

□ Connect the thermostat to Zigbee Gateway





Make sure ZigBee Gateway has been added to the Herz Smart app. Press and hold the ▲ and ▼ buttons on the thermostat until the display shows "PA". Then release the keys. The pairing mode will be started up.



Thermostat counts the time back (180s).



Enter the gateway interface.



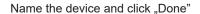
In "Zigbee devices list" go "Add devices".



Wait for the message "End" to appear on the thermostat screen.









The thermostat has been installed and displays the main interface.



On the controller screen globe icon appeared stating that he has been he added to the ZigBee network.

☑ Binding thermostat with the module/relay

Make sure that the module/relay and thermostat are in the same ZigBee network (they are added to the same gateway).



To properly link thermostat with the module/relay first click quickly the button on the device 5 times. The LED diode will start flashing slowly on red, which means the device is in binding mode.



On the thermostat, hold \triangle and \blacktriangledown buttons until the "bind" message appears.



Release the keys, binding function process of linking thermostat with control box is active.



The "binding" process takes up to 300 seconds.



After successful binding operation "End" message will be displayed. LED on the module will stop flashing.



Both devices have been successfully linked. Thermostat displays the main screen, icon " ((•)) " appeared on the screenindicating connection with the receiver (module/relay in this case).

ATTENTION: If the binding process fails, it must be repeated taking into account the distances between devices, obstacles and local radio signal interferences.

REMEMBER: Radio range can be increased by Herz ZigBee repeaters.

ATTENTION: When the thermostat is binded with the module, the relay will turn off after 50 minutes, if the communication between the devices is lost.

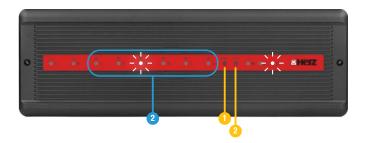
☑ Binding thermostat with the wireless control box

Make sure that the control box and thermostat are in the same ZigBee network (they are added to the same gateway) and the POWER LED lights up blue.



☑ Binding thermostat with the wireless control box

Make sure that the control box and thermostat are in the same ZigBee network (they are added to the same gateway) and the POWER LED lights up blue.



In order to correctly link thermostat with the control box, first select the zone in the control box with the SELECT button (1) (zone which you want to link with thermostat). The LED (2) will flash 3 times for the selected zone. Confirm your selection by clicking PAIR button (2). The LED (2) will flash green with the previously selected zone - binding process has started, it is active for 10 minutes and during this time you can link thermostat with the selected zone.



On the thermostat, hold \triangle and \bigvee buttons until the "bind" message appears.



Release the keys, binding function process of linking thermostat with control box is active.



The "binding" process takes up to 300 seconds.



After successful binding operation "End" message will be displayed. LED on the module will stop flashing.



Both devices have been successfully linked. Thermostat displays the main screen, icon " ((•))" appeared on the screenindicating connection with the receiver (module/relay in this case).

ATTENTION: If the binding process fails, it must be repeated taking into account the distances between devices, obstacles and local radio signal interferences.

REMEMBER: Radio range can be increased by Herz ZigBee repeaters.

ATTENTION: When the thermostat is binded with the module, the relay will turn off after 50 minutes, if the communication between the devices is lost.

☑ Installer Settings

To enter installer parameters press and hold button \checkmark for 3 seconds. Use \blacktriangle or \blacktriangledown button to move between parameters. Enter the parameter by \checkmark . Edit the parameter using \blacktriangle or \blacktriangledown . Confirm the new parameter value with the \checkmark button.







Pxx	Function	Value	Description	Default	
P01	Clock format	12h	12 hour	24h	
		24h	24 hour		
P02	Heating/Cooling Selection	ili	Heating		
		*	Cooling	1/1	
P03	Control algorithm	TPI UFH	TPI for Underfloor Heating	TPI UFH for heating HIS 1.0 for cooling	
		TPI RAD	TPI for Radiators		
		TPI ELE	TPI for Electrical Heating		
		HIS 0.2	SPAN +/-0,1°C		
		HIS 0.4	SPAN +/-0,2°C		
		HIS 0.6	SPAN +/-0,3°C		
		HIS 0.8	SPAN +/-0,4°C		
		HIS 1.0	SPAN +/-0,5°C		
		HIS 2.0	SPAN +/-1,0°C		
		HIS 3.0	SPAN +/-1,5°C		
		HIS 4.0	SPAN +/-2,0°C		
P04	Offset temperature	-3.5°C to +3.5°C	If the thermostat indicates wrong temperature, you can correct it by max ± 3.5°C	0°C	
P05	Minimum setpoint	5°C - 45°C	Minimum heating / cooling temperature that can be set		
P06	Maximum setpoint	5°C - 45°C	Maximum heating / cooling temperature that can be set		
P07	S1/S2 Input	1	Disable	1	
		 External sensor as a floor sensor External sensor as an air sensor 			
		4	Occupancy sensor (ON/OFF volt free input)		
P08	Maximum floor temperature for heating (function active when P07=2)	5°C - 45°C	In order to protect the floor, the heating will be turned off, when the temperature of the floor sensor rises above the maximum value.	35°C	
P09	Minimum floor temperature for heating (function active when P07=2)	5°C - 45°C	In order to protect the floor, the heating will be switched on, when the temperature of the floor sensor drops below the minimum value.		
P10	Maximum floor temperature for cooling (function active when P07=2)	5°C - 45°C	In order to protect the floor, cooling will be switched on, when the temperature of the floor sensor exceeds the maximum value.		
P11	Minimum floor temperature for cooling (function active when P07=2)	5°C - 45°C	In order to protect the floor, cooling will be turned off, when the temperature of the floor sensor drops below the minimum value	7°C	
		-	ı	-	



P12 C	Comfort warm floor	OFF	This function helps to keep the floor warm, even if	OFF	
		Level 1 shortest cycle	there is no heating demand from the room thermostat. This feature is available only for Heating Mode. User can select 5 levels of warm floor feature. Note that comfort warm floor function will activate heating for specified amount of time (in relation to Level setting choosen by user). Heating will be activated only if in the past 1 hour heating was OFF.		
		Level 2			
		Level 3			
		Level 4	and pass a mean meaning mass control		
		Level 5 longest cycle			
P13	Valve protection	ON	Function disabled	OFF	
		OFF	Function enabled		
P14	Internal relay	NO	Relay type NO-COM	NO	
		NC	Relay type NC-COM		
		OFF	Relay disabled		
P15	Backlight brightness	10% - 100%	Adjustable in the range from 10 to 100%	50%	
P16	PIN Code for settings access	NO	Function disabled	NO	
		PIN	N Function enabled		
P17	Require a PIN to unlock the	NO	Function disabled	NO	
	keys every time (function active when P16=PIN)	YES	Function enabled		
CLR	Clear settings factory reset	NO	No action	NO	
		YES	Factory Reset		

☑ Alarms

E1 – Short-circuit in the circuit of the external temperature sensor plugged into the S1/S2 contacts.

- If the sensor is connected to the S1/S2 input, check the wiring.
- Check for insulation damage (short circuit) in the wiring of the sensor wiring. Sensor resistance for 25°C=10kΩ.
- Check the setting in the Installer Parameters ADDITIONAL INPUT S1/. S2 whether the parameter related to TEMPERATURE SENSOR is activated.



External



Internal + floor

E2 – Break in the circuit of the external temperature sensor plugged in S1/S2 contacts.

- If the sensor is connected to the S1/S2 input, check the wiring.
- Check for damage (break) to the wires in the sensor wiring. Sensor resistance for $25^{\circ}C=10k\Omega$.
- If the sensor is not connected check the setting in Parameters Installer ADDITIONAL INPUT S1/S2 (GLOBE ICON) is flashing Connection to ZigBee gateway is lost.





External



 Check if the Thermiq CONNECT gateway is connected to the power supply



Internal + floor



The thermostat has the display off – Check that the thermostat is not turned off in the app.

☑ Factory reset

To RESET Thermostat to factory settings, hold down the and buttons until the FA message appears. Then release the keys. Thermostat will restart, will restore the default factory settings and display the main screen. If the regulator was added to the gate and the ZigBee network, it will be removed from it and you will need to add / pair it again.











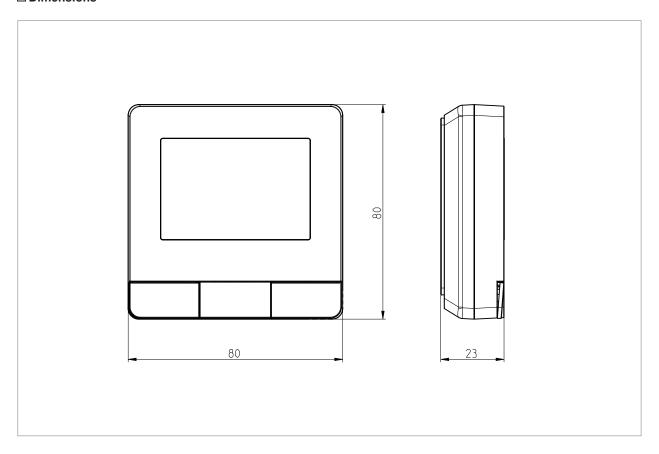


HERZ Thermiq Radex

Programmable ZigBee Smart Thermostat

Datasheet 3 F820 3X

☑ Dimensions



Order Nr.	Туре	Power supply	L1 [mm]	L2 [mm]	H [mm]
3 F820 31	Black	230V AC 50Hz	80	80	23
3 F820 32	White				25

☑ Technical Data

Electrical specifications:

Power Supply 230V AC 50 Hz

Maximum load 3(1) A
Protection class IP30

Measurement range:

Internal temperature sensor $5.0^{\circ}\text{C} - 45.0^{\circ}\text{C}$ Accuracy $+/-0.5^{\circ}\text{C}$



Communication:

With the HERZ Thermiq Connect ZigBee 3.0 2,4GHz

With the HERZ Thermiq FloorHub ZigBee 3.0 2,4GHz or wired connection

With the HERZ Thermiq HeatCap RF 868MHz

Output control COM / NO (Volt-free)

Control algorithm TPI or Histeresis (from ±0,1°C to ±2°C)

Scope of Supply

- HERZ Thermiq Radex Smart Thermostat
- HERZ Thermiq Radex installation guide
- Screws kit

Product Highlights

- · Quick and easy surface-mounted installation
- Intuitive configuration online via app or offline directly on the device
- · Compatible with underfloor and radiator heating systems
- Controls up to 6 thermostatic radiator heads ideal for larger rooms
- Programmable heating schedules for energy savings
- Local schedule setting directly on the controller
- Remote control via the HERZ Thermiq App (with Internet gateway)
- Offline operation possible no Internet connection required

Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions.

For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ Field of application

The HERZ Thermiq RADEX is a programmable surface-mounted Internet temperature controller powered by 230 V AC, designed for underfloor or radiator heating systems. It supports both heating and cooling operation modes and communicates via ZigBee/868 MHz wireless technology.

The device can control up to six electronic wireless heads (Thermiq HeatCap) in one zone, ensuring optimal comfort and energy efficiency by measuring temperature away from the radiator. Its advanced binding function enables both wireless control via ZigBee and wired connection.

When connected to the HERZ Thermiq Internet gateway, the controller can be operated remotely via the HERZ Thermiq App. Alternatively, it can also function as a standalone unit connected by wire to the receiver, with full offline scheduling capability.

Additional features include programmable relay type selection, key lock function, and adjustable minimum and maximum set temperature limits.

☑ Wireless control of underfloor heating

1. HERZ Thermiq Connect

The central component for creating a wireless ZigBee network. It serves as an interface between ZigBee devices and a 2.4 GHz Wi-Fi or Ethernet router. The gateway enables control and monitoring of all connected ZigBee devices via the HERZ Thermiq App.

2. HERZ Thermiq Radex

The thermostat can be connected to the control box FloorHub Wireless in two ways:

- Zones "A" and "B" wired connection (the controller can also be powered from these zones).
- Zones "1...6" wireless connection established through the binding function between the thermostat and the selected zone in the control box. Wireless binding is possible after the thermostat is added to the ZigBee network via the Internet gateway Thermiq Connect.

The thermostat maintains the desired room temperature by switching the relevant zone in the control box on or off, thereby activating the thermoelectric actuators on the manifold. When connected to the Internet gateway, the



temperature can be conveniently managed via the HERZ Thermiq App.

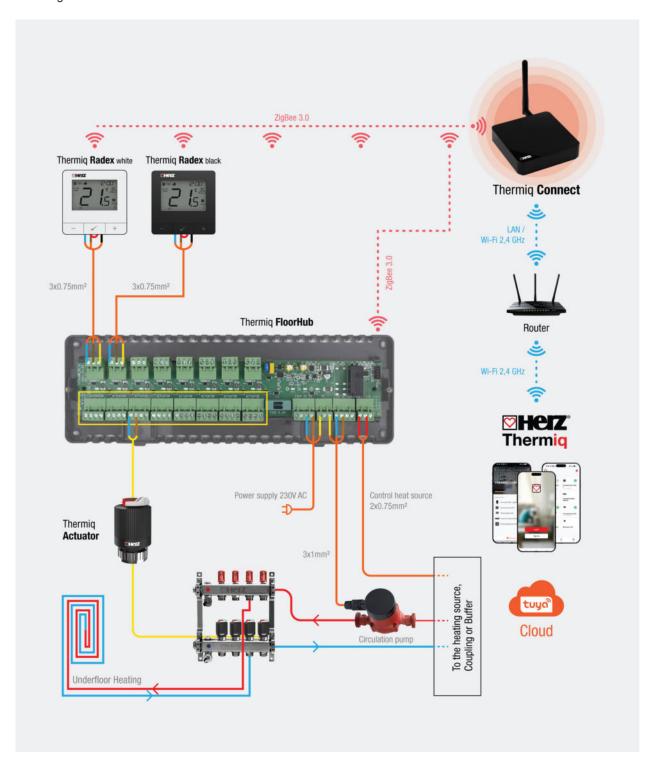
3. HERZ Thermiq FloorHub Wireless

Enables regulation of up to 8 heating zones – a combination of 2 wired and 6 wireless thermostats. Wired control (zones "A" and "B") is achieved through a plug-in module inside the control box, wirelessly linked to the corresponding thermostat. Wireless communication uses ZigBee 3.0 technology.

The binding function allows direct wireless connection between the control box (zones 1...6) and dedicated thermostats through the Internet gateway. The control box also provides circulation pump and boiler control functionality.

4. HERZ Thermiq App

Enables remote control and monitoring of all connected smart devices. The app operates on the Tuya cloud platform, providing a secure, user-friendly, and highly compatible environment for system configuration and management.





☑ Wireless control of the radiator heating

1. HERZ Thermiq Connect

The central component for creating a wireless ZigBee network. It serves as an interface between ZigBee devices and a 2.4 GHz Wi-Fi or Ethernet router. The gateway enables control and monitoring of all connected devices via the HERZ Thermiq App.

2. HERZ Thermiq Radex

The key element for efficient radiator heating control. Two-way communication between the thermostat and the electronic radiator head takes place at regular intervals via ZigBee radio. The thermostat can synchronize directly with the radiator head without requiring an Internet gateway. When connected to the Internet gateway, temperature control and scheduling can be managed remotely through the HERZ Thermiq App.

3. HERZ Thermiq HeatCap

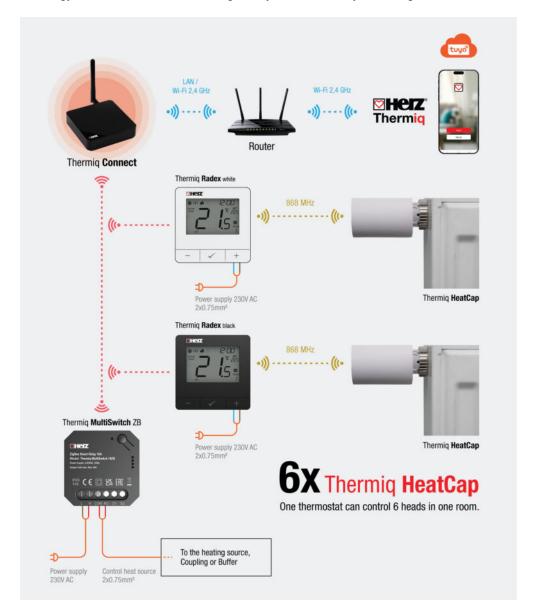
Designed to regulate radiator heating with high precision. It must be paired with a master thermostat to operate correctly. Up to six wireless heads can be paired with a single thermostat within the same room or heating zone.

4. HERZ Thermiq App

Enables convenient remote control and monitoring of all connected smart devices. Operating on the Tuya cloud platform, it provides a secure, user-friendly, and flexible solution for home and building temperature management.

5. HERZ Thermiq MultiSwitch

Allows control of a heat source such as a gas boiler or circulation pump. Communication is based on ZigBee 3.0 wireless technology, coordinated via the Internet gateway for seamless system integration.





☑ LCD icons description + Button description

LED icon description

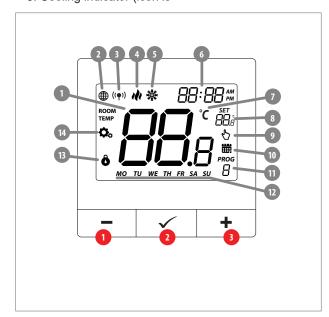
- 1. Current temperature
- 2. ZigBee network connection indicator
- 3. Receiver binding indicator
- 4. Heating indicator (icon is animating when there is heating demand)
- 5. Cooling indicator (icon is

- animating when there is cooling demand)
- 6. Clock
- 7. Temperature unit
- 8. Setpoint temperature
- 9. Temporary override mode
- 10. Schedule mode icon
- 11. Program number

- 12. Day of the week indicator
- 13. Button lock
- 14. Settings icon

Button description:

- 1. "DOWN" button
- 2. "OK" button
- 3. "UP" button

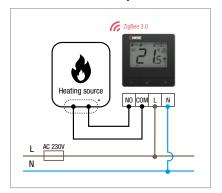


+	Change the parameter value up			
_	Change the parameter value down			
	Manual/Schedule mode - short button press (Online mode)			
~	Enter the installer parameters- hold 3 seconds			
	Turn OFF/ON thermostat - hold 5 seconds			
	Enter the pairing mode - hold 5 seconds			
+&-	Enter Sync / Binding mode - hold 5 seconds			
	Factory reset - hold until the FA message appears			
+&✔	Lock/Unlock thermostat keys - hold 3 seconds			
-+•	Heating/Cooling mode change - hold 3 seconds			

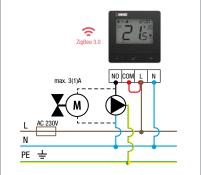
☑ Installation

- 1. Prepare the frame and regulator
- 2. Screw the mounting plate to the box / wall.
- 3. Connect the wires to the thermostat
- 4. Attachment of regulator to mounting plate.

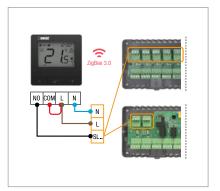
☑ Connection description



a) Connection diagram for gas boiler



b) Connection diagram to pump / actuator



c) Connection diagram to the control



-	Fuse	
L, N	230V AC power supply	
PE +	Ground (electricity)	
COM, NO	Voltage-free output	
L,N	Input terminals	

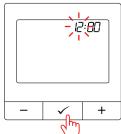
•	Pump
MX	Valve Actuator
•	Wireless Communication
ð	Heating source* - Boiler's contacts for ON/ OFF thermostat (according to the boiler's instructions)

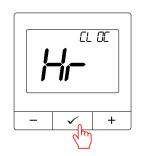
Setting the day of the week and time

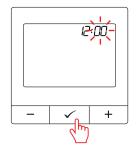
To enter clock settings press and hold button \checkmark for 3 seconds, then Select "Hr" with the - or + button and confirm with the \checkmark button.

Using the - or + buttons, set the clock format, then confirm with ✓ button. Similarly, set the following parameters: Hour, minutes and day of the week.

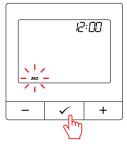










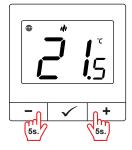


Synchronization with HERZ Thermiq HeatCap

An internet gateway is not mandatory to synchronize thermostat with HERZ Thermiq HeatCap. Make sure head is installed and adapted to valve insert (see head manual). If thermostat is already binded to a wireless control box or relay module, synchronization with HERZ Thermiq HeatCap cannot be activated.



After successful adaptation process, press&hold head button for 3 seconds. The LED will start flashing blue.





Hold simultaneously – and + buttons on thermostat until the "SY" function appears.

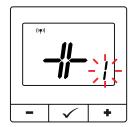




Release buttons, SYNC function will be active (synchronization with head).



After successful synchronization, LED diode will indicate blue light for 10 seconds.



Thermostat will indicate how many heads are synchronized.



"END" message will appear after successful synchronization.



The devices are synchronized and ready to work.

ATTENTION: The synchronization should be performed for each head separately. One thermostat can control up to 6 heads within one room.

☑ Installation of the thermostat in the app



Download the Herz Smart app from Google Play or Apple App Store and install on your mobile device. Register an account with the app.



Make sure ZigBee Gateway has been added to the Herz Smart app. Press and hold the - and + buttons on the thermostat until the display shows "PA". Then release the keys. The pairing mode will be started up.



Enter the gateway interface.



Click "Add devices." Follow the instructions in the application.



Name the device and click "Done"



The thermostat has been installed and displays the main interface.



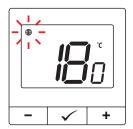
On the device screen globe icon appeared stating that it has been added to the ZigBee network.



☐ Installation of the thermostat without Thermiq application – OFFLINE







On the thermostat, hold down the - and + buttons simultaneously for 5 seconds until "PA" appears.

Release the keys. The thermostat will enter pairing mode.







On the Thermiq CONNECT, press the The blue LED will start flashing. RESET button.

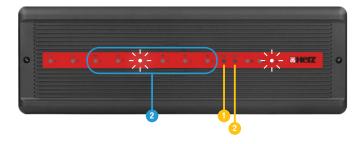
Pairing mode will then be invoked.



The thermostat screen shows Globe icon indicating that it has been added to the ZigBee network.

☐ Binding Radex with the MultiSwitch/FloorHub Wireless with wireless connection

Make sure that the module/relay and thermostat are in the same ZigBee network (they are added to the same gateway).



In order to correctly link thermostat with the control box, first select the zone in the control box with the SELECT button (1) (zone which you want to link with thermostat). The LED (2) will flash 3 times for the selected zone. Confirm your selection by clicking PAIR button (2). The LED (2) will flash green with the previously selected zone - binding process has started, it is active for 10 minutes and during this time you can link thermostat with the selected zone.





To properly link thermostat with the module/relay first click quickly the button on the device 5 times. The LED diode will start flashing slowly on red, which means the device is in binding mode.



On the thermostat, hold - and + buttons until the "bind" message appears.



Release the keys, binding function process of linking thermostat with control box is active.



The "binding" process takes up to 300 seconds.



After successful binding operation "End" message will be displayed. LED on the module will stop flashing.



Both devices have been successfully linked. Thermostat displays the main screen, icon "((•))" appeared on the screen indicating connection with the receiver (module/relay in this case).

ATTENTION: If the binding process fails, it must be repeated taking into account the distances between devices, obstacles and local radio signal interferences.

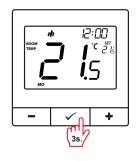
REMEMBER: Radio range can be increased by Herz ZigBee repeaters.

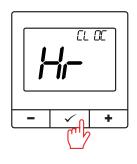
ATTENTION: When the thermostat is binded with the module, the relay will turn off after 50 minutes, if the communication between the devices is lost.

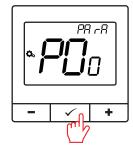
☑ Installer settings

To enter installer parameters press ✓ and hold ✓ button for 3 seconds, then Select "PArA" with the - or + button and confirm with the ✓ button.

Use – or + button to move between parameters. Enter the parameter by \checkmark . Edit the parameter using – or + Confirm the new parameter value with the \checkmark button.











Pxx	Function	Value	Description	Default	
P01	Heating/Cooling Selection	ili	Heating Heating		
		*	Cooling	141	
P02	Control algorithm	TPI UFH	TPI for Underfloor Heating	TPI UFH for	
		TPI RAD	TPI for Radiators	heating HIS 0.4 for	
		TPI ELE	TPI for Electrical Heating	cooling	
		HIS 0.2	SPAN +/-0,1°C		
		HIS 0.4	SPAN +/-0,2°C		
		HIS 0.6	SPAN +/-0,3°C		
		HIS 0.8	SPAN +/-0,4°C		
		HIS 1.0	SPAN +/-0,5°C		
		HIS 2.0	SPAN +/-1,0°C		
		HIS 3.0	SPAN +/-1,5°C		
		HIS 4.0	SPAN +/-2,0°C		
P03	Offset temperature	-3.5°C - +3.5°C	If the thermostat indicates wrong temperature, you can correct it by max ± 3.5°C	0°C	
P04	Minimum setpoint	5°C - 45°C	Minimum heating / cooling temperature that can be set	5°C	
P05	Maximum setpoint	5°C - 45°C	Maximum heating / cooling temperature that can be set		
P06	Backlight brightness	10% - 100%	Adjustable in the range from 10 to 100%		
P07	PIN Code for settings	NO	Function disabled	NO	
	access	PIN	Function enabled	1	
P08	PIN code value	000-xxx	user PIN	000	
P09	Require a PIN to unlock the	NO	NO	NO	
	keys every time (function active when P8=PIN)	YES	YES		
P10	Valve protection	ON	Function enabled	OFF	
		AS	Anti stop		
		OFF	Function disabled		
P11	Latest available firmware for heads	XXX	Firmware version available to update heads	Read only	
P12	Current firmware installed in heads	null-xxx	null - firmware in the heads is latest possible. xxx - a newer version is available, press button ✔ to update the heads	-	
P13	Delta RCWC algorithm (only for heads)	0.5°C - 5.0°C			
P14	TRV Frost protection	ON	Function enabled	ON	
		OFF	Function disabled		
P15	NC R		Relay type NO-COM	NO	
			Relay type NC-COM		
			Relay disabled	1	
CLR	R Clear settings factory reset		No action	NO	
			Factory Reset	1	



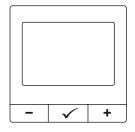
☑ Alarms





E1 - Short circuit in the internal temperature sensor circuit E2 - Break in the temperature sensor circuit





(GLOBUS) is flashing - Connection to the ZigBee gateway is lost. Check if the gateway, repeater (in other words ZigBee device, powered by 230V to extend the network range) is connected to the power supply

The thermostat has the display turned off. Check that the thermostat is not switched off from within the application. You can also check by clicking on any key - then the message "OFF" will appear on the regulator screen. Check thermostat power supply

☑ Factory reset

To RESET Thermostat to factory settings, hold down the – and + buttons until the FA message appears. Then release the keys. Then use the - or + button to change "NO" to YES" and confirm with ✓ button. Thermostat will restart, will restore the default factory settings and display the main screen. If the thermostat was added to the gate and the ZigBee network, it will be removed from it and you will need to add / pair it again.











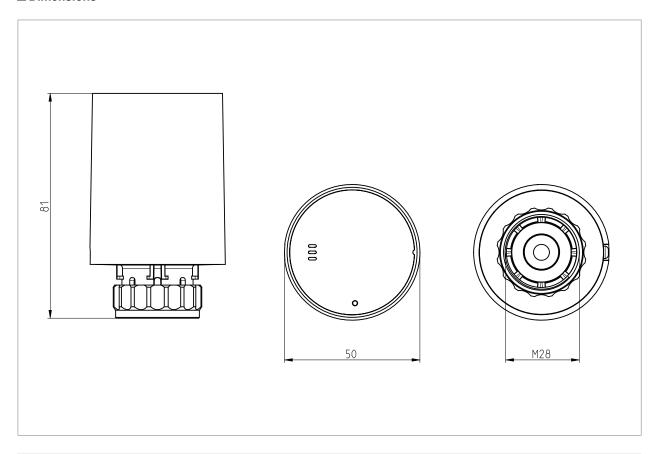


HERZ Thermiq HeatCap

Thermostatic radiator head

Datasheet 3 F820 58

☑ Dimensions



Order Nr.	Туре	Power supply	L1 [mm]	L2 [mm]	H [mm]
3 F820 58	White	2 x AA battery	M28 x 1.5	50	81

☑ Technical Data

Electrical specifications:

Power Supply 2 x AA battery

Protection class IP30

Communication:

With the HERZ Thermiq Radex RF 868MHz

Scope of Supply

- HERZ Thermiq HeatCap radiator head
- HERZ Thermiq HeatCap installation guide
- Screwdriwer + locking screw



☑ Field of application

The HERZ Thermiq HeatCap is an electronic wireless thermostatic radiator head designed for precise temperature control and optimal energy efficiency. It communicates via Zigbee / RF 868 MHz wireless technology and can be paired with a master thermostat (e.g., HERZ Thermiq RADEX) within the same room or heating zone.

HERZ Thermiq Radex continuously measures the room temperature and therefore adjusts the HeatCap radiator valve opening to maintain the desired setpoint. Up to six heads can be connected to a single thermostat, ensuring balanced temperature regulation even in larger rooms.

When integrated into the HERZ Thermiq system with thermostat Radex and Internet gateway Thermiq Connect, it allows remote configuration and monitoring via the HERZ Thermiq App.

☑ Product highlights

- Measuring room temperature away from the radiator ensures comfort and energy savings
- Extremely quiet operation for maximum user comfort
- · Simple, intuitive, and fast installation
- Advanced control algorithm maintains stable and precise temperature
- Remote control via the HERZ Thermiq App (with Internet gateway)
- Group operation up to 6 heads can work together in one room
- Open window detection automatically closes the valve when a sudden 1.5 °C drop is detected and restores heating after 15 minutes

Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions.

This product complies with the essential requirements and other relevant provisions of the following EU Directives: EMC 2014/30/EU, Low Voltage Directive LVD 2014/35/EU, RoHS

directive 2011/65/EU.

For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ Open window function

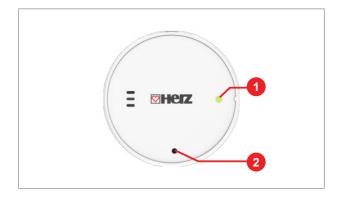
The head unit automatically closes the flow to the radiator when a sudden drop in temperature is detected, indicating that a window has been opened. After 15 minutes, the system independently restores normal heating control.

☑ Frost protection

When the HERZ Thermiq HeatCap head is closed, frost protection is automatically activated. If the temperature sensor in the head detects a temperature drop below 5°C, the head opens to supply heat to the radiator and prevent freezing.

☑ User interface

- 1. LED diode (indicates device status)
- 2. Function button





☑ Installation



Remove the cover as shown in the illustration.



The LED will indicate the software version (e.g., v3.5 fl ashes 3 times green and 5 times red).



Insert the batteries according to the correct polarity.



Wait until the LED light is continuously green.



Reattach the cover as shown in the illustration.



Screw the valve head onto the radiator valve with M28 thread.

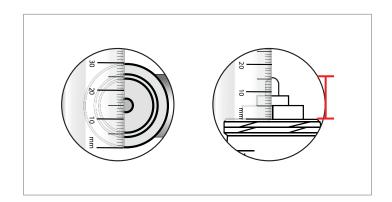


To start the adaptation process press the button once or wait 3 minutes, then the adaptation will start automatically. When the adaptation is correct - the LED will turn off.

ATTENTION: If an adaptation error occurs with the valve insert, the LED will fl ash alternately green/red every 3 seconds. Check if the valve head is properly installed. You can immediately retry the adaptation by pressing the button once.

□ Compatibility with radiator valves

- 1. Measure the thread diameter. HERZ Thermiq HeatCap had thread M28.
- 2. Measure the pin height. The pin height should be between 10-15mm in the open position.





Synchronization with Thermiq Radex

An internet gateway Thermiq Connect is not mandatory to synchronize the thermostat Radex with the head HeatCap. Make sure head is installed and adapted to valve insert.

If the thermostat RADEX is connected to a wireless control box FloorHub or relay module MultiSwitch, synchronization with the head HeatCap cannot be activated.

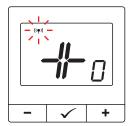






After a successful adaptation 3 seconds. The LED will start flashing

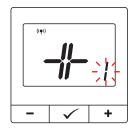
process, press & hold head button for Hold simultaneously - and + buttons on the thermostat until the "SY" function appears.



Release buttons, SYNC function will be active (synchronization thermostatic with head).



After successful synchronization, the LED diode will indicate blue light for 10 seconds.



The thermostat will indicate how many heads are synchronized.



"END" message will appear after successful synchronization.



The devices are synchronized and ready to work.



ATTENTION: The synchronization should be performed for each head separately. One thermostat can control up to 6 heads within one room.

Settings for HeatCap radiator head in the app

To manage setting for HeatCap you need to add thermostat Radex to the app Thermiq.





Make sure gateway Thermiq Connect has been added to the HERZ Thermiq app. Press and hold - and + buttons on the thermostat Radex until the dispaly shows "PA". Then release the keys. The pairing mode will be started up.

Thermostat counts the time back (180s)





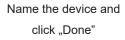




Enter the gateway interface.

In "ZigBee device list" go: "Add devices".

Wait for the message "End" to appear on the thermostat screen.







The thermostat has been installed and displays the main interface.

On the controller screen globe icon appeared stating that it has been added to the ZigBee network.

☑ LED diode indications - Explanation

LED diode flashes green a few times, then red	Turning on the power (inserting the battery into the head) - the LED indicates the software version (e.g. v3.5 flashes 3x green and 5x red).
LED diode flashes slowly on green	After inserting the batteries and indicating the software version, the head opens.
LED diode lights up green	The head is open and prepared for adaptation with a valve insert.
LED diode flashes quickly on green	Adaptation of the head with a valve insert
LED diode flashes slowly on red	The head is adapted with a valve insert, but is not paired with the thermostat. After clicking the button 1x, the LED will flash red slowly 10x.
LED diode flashes slowly on blue	The head is in synchronization mode with the controller. To enter the head-to-regulator pairing mode, press and hold the button until the LED then release the button.
LED diode lights up blue 10 seconds •10s.	After synchronizing the head with the controller, the LED in the head will light up for 10 seconds.
LED diode lights up green 3 seconds •3s.	When you want to check the opening/closing status of the head paired with the regulator. After pressing the button once - when the head is open, the LED lights up green for 3 seconds.
LED diode lights up red 3 seconds •3s.	When you want to check the opening/closing status of the head paired with the regulator. After pressing the button once - when the head is closed, the LED lights up red for 3 seconds.
LED diode flashes quickly on red	After holding the button for 10 seconds, the LED will flash red, then release the button. The head will be restored to factory values and the connection with the regulator will be removed. After the factory reset, the head restarts indicating the software version and is prepared for adaptation with the valve insert.
LED diode flashes on blue 2x every 10 sec. • 10s. • •	The head lost communication with the regulator. If the head does not receive a signal from the regulator, it flashes blue for 7 days and then turns off. If the head receives a signal from the regulator, the head returns to normal operation and the blue flashing stops.



LED diode flashes on red 3x every 10 sec.	Batteries are almost exhausted - they need to be replaced.
LED diode flashes alternately on green/red every 3 sec. ■ 3s. ■ ■	Adaptation error with valve insert, after correctly mounting the head on the valve insert, the adaptation can be repeated immediately by clicking the button once.
LED diode flashes alternately on green/red/blue	A hardware error.
LED diode flashes on pink	Software update in progress.

☑ Factory reset

To RESET the head to factory settings, hold the button until the LED flashes red, then release the button. The head will restart, restore factory default values and the connection with the regulator will be removed. The head must be re-adapted with the valve insert.



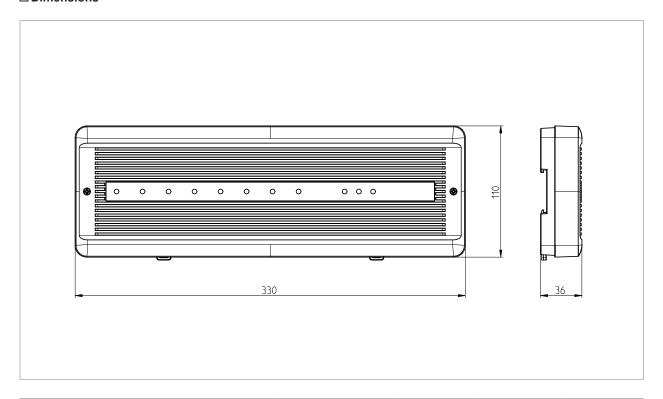


HERZ Thermiq FloorHub Wireless

Control box for underfloor heating system

Datasheet 3 F820 11

Dimensions



Order Nr.	Connectivity	Power supply	L1 [mm]	L2 [mm]	H [mm]
3 F820 11	Wireless	230 V AC 50 Hz	330	110	36

☑ Technical Data

Electrical specifications:

Power Supply 230 V AC 50 Hz

Protection class IP20

Total Load Max 10(1) A
Pump Load Max 3A
Boiler Load Max 6A
Actuator Load Max 2A
Thermostat Load Max 1A

Outputs Boiler control (NO/COM/NC)

Pump control (AC 230V)

Terminals for actuators (AC 230V)

Inputs 2 wired zones

6 Zigbee wireless zones

Scope of Supply

- HERZ Thermiq FLOORHUB Wireless Control box
- HERZ Thermiq FLOORHUB Wireless installation guide
- Set includes long-range antenna

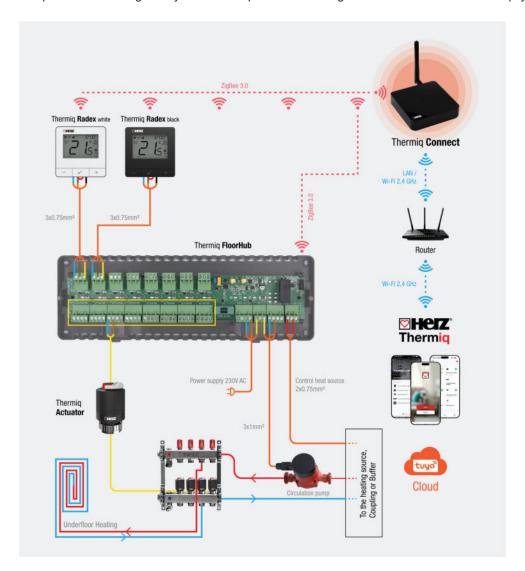


☑ Field of application

The HERZ Thermiq FloorHub control box enables precise regulation of up to 8 heating zones, including 6 wireless and 2 wired zones. It communicates via ZigBee 3.0 wireless technology, ensuring stable and efficient operation of underfloor or radiator heating systems.

The unit includes a magnetic antenna with a 1 m cable to extend the communication range and supports the binding function for wireless linking with dedicated thermostats. It features outputs for pump and boiler control, including a 3A voltage output for the circulating pump and a voltage-free NO-COM-NC output for heating devices such as gas boilers.

Additional functions include adjustable pump and heat source shutdown delay (0–15 min), built-in 3-minute switch-on delay, and removable connectors for simplified wiring. The control box can be mounted on a DIN rail or flat surface and requires an Internet gateway for remote operation and integration within the HERZ Thermiq system.



Product highlights

- · Controls up to 8 heating zones (6 wireless, 2 wired)
- ZigBee 3.0 wireless communication for reliable operation
- Magnetic antenna with 1 m cable for extended range
- Pump and boiler control outputs (3A pump / NO-COM-NC boiler)
- Adjustable shutdown delay from 0 to 15 minutes
- Built-in 3-minute start delay for safe system activation
- Removable connectors for easy wiring
- Mounting on DIN rail or flat surface
- Requires HERZ Thermiq Internet gateway for remote control



☑ Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualifi ed person with appropriate electrical qualifi cations, in accordance

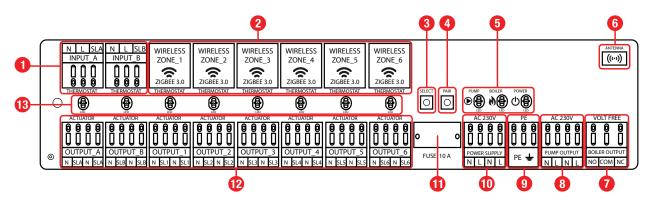
with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions. This product complies with the essential requirements and other relevant provisions of the following EU Directives: EMC 2014/30/EU, Low Voltage Directive LVD 2014/35/EU, RoHS directive 2011/65/EU For the entire installation, there may be additional protection requirements, which the installer is responsible for.

□ Control box description

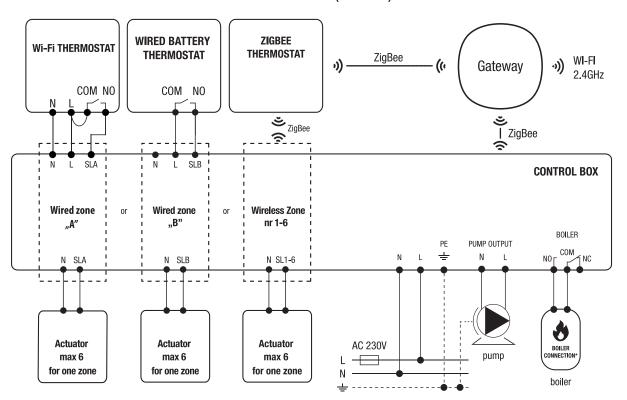
- 1. Inputs for wired thermostats
- 2. Connection zones for ZigBee wireless thermostats
- 3. "Select" Button
- 4. "Pair" Button
- 5. LED diodes indicators for the operation status of the pump, boiler and control box power supply connection
- 6. External antenna input
- 7. Heating device control output, e.g. gas boiler

(voltage free)

- 8. Pump control output (AC 230V)
- 9. Ground
- 10. Power supply (AC230V)
- 11. Cartridge fuse 5 x 20 mm 10A
- 12. Actuators output connections (AC 230V)
- 13. LEDs 1 to 8 informing about the operation of zones



☑ Connection of thermostats and thermoelectric actuators (AC 230V)



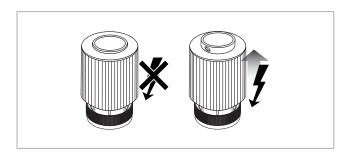


PLEASE NOTE: Depends on the thermostat heating state - 230 V AC may appear on the actuators output.

☑ Field of application

The control box is adapted to work with NC type actuators (normal closed). The wires of the thermoelectric actuators should be plugged in removable connectors in the appropriate zones. Current load of each zone is adapted to support up to 6 thermoelectric actuators with a power of 2 W. With more actuators in one zone, use additional relay to relieve the output of this zone.

When the actuator has no power, it is closed. After applying 230V voltage, the actuator will open.



☑Installation



Remove the top cover of the control box.

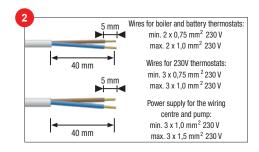


Connect the wires according to the connection description. Refer to the sticker under the top cover.

☑ Power supply

Power supply for wiring centre is 230 V \sim 50Hz. Installation features:

- three-wire,
- made in accordance with applicable regulations



Wires for the boiler and battery powered thermostats: min. $2 \times 0.75 \text{ mm}^2 230 \text{ V} / \text{max}$. $2 \times 1.0 \text{ mm}^2 230 \text{ V}$

Wires for 230 V thermostats: min. $3 \times 0.75 \text{ mm}^2 230 \text{ V} / \text{max}$. $3 \times 1.0 \text{ mm}^2 230 \text{ V}$

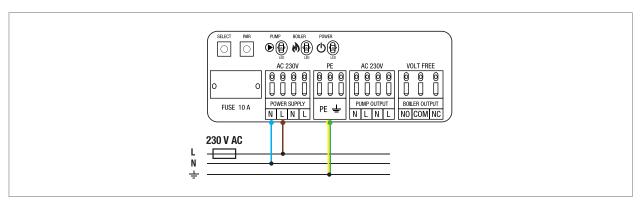
Power supply for the wiring centre and pump: min. 3 x 1.0 mm² 230 V / max. 3 x 1.5 mm² 230 V

Remove the appropriate section of insulation from the wires.



Once you are sure that all wires are correctly connected, install the top cover and connect the wiring centre to the 230 V power supply – the red "Power" LED will light up.







The red LED indicates that the wiring centre is connected to the power supply.

☑ Fuse

PLEASE NOTE: Replacement of the fuse to be carried out only when the control box is disconnected from power supply (230 V ~). Main fuse is located under the housing cover next to power supply terminals and secures the control box and the devices connected to it. Use slow-blow tubular fuses with nominal current 10A burnout. To replace fuse remove the fuse holder with a flat screwdriver and pull out the fuse.

☑ Pump control output (AC 230V)

The PUMP OUTPUT is used to power the circulation pump in the heating system. It is a 230V AC voltage output with a maximum load capacity of 3A. The pump is connected directly to the contacts. The output is turned on (the pump starts) always after 3 minutes from the moment of receiving a heating signal from any thermostat connected to the wiring centre. The output is turned off (the pump stops) as soon as the last thermostat stops reporting heat demand.



The red LED indicates that the wiring centre is connected to the power supply.

☑ Boiler control output (volt free)

The boiler control output is supported by a relay with voltage-free contacts (NO / COM / NC output). The boiler must be connected to the COM-NO or COM-NC contacts. It is a typical two-state relay. If the thermostats connected to the wiring centre send a signal for heating, the BOILER output contacts activate the relay with a 3-minute delay, allowing the boiler to be turned on. The boiler is turned off immediately, when none of the zones sends a signal for heating.



When the BOILER control output is activated, the boiler status LED shows a constant green light.

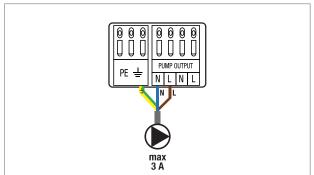
PLEASE NOTE: The shutdown delay time of the circulating pump output and heat source output is editable in the range of 0, 3, 5 or 15 minutes (see the full device manual for details).

VOLT FREE 0 NO COM NC BOILER OUTPUT **BOILER OUTPUT** NO COM NC Boiler ON/OFF contacts (according to the boiler's Boiler

manual)

☑ Installation in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.







STEP 1 - DOWNLAD HERZ THERMIQ APP

Download the HERZ Thermiq app from Google Play or Apple App Store and install it on your smartphone.



STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:

- Click "Sign Up" to create new account.
- Enter your e-mail address to which the verification code will be sent.



Enter the verification code received in the email.
Remember that you only have 60 seconds to enter the code!



Then set the login password.

☑ Installation in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.





Release buttons, SYNC function will be active (synchronization thermostatic with head).

Make sure that the control box is connected to the power supply. Press and hold the PAIR button for 10 seconds, red LED diode will starts flashes red. The control box will go into pairing mode.



Enter the gateway interface.



In "Zigbee devices list" go "Add devices".





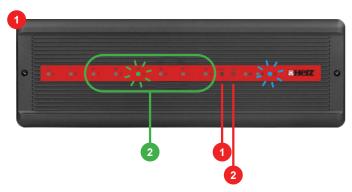
Wait until the application finds the device and click "Done".



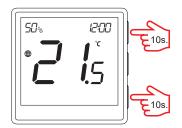
The control box has been installed and displays the main interface. Power diode lights up blue.

☑ Binding thermostat with the wireless control box

Make sure the control unit and thermostat are in the same ZigBee network (added to the same gateway) and that the blue POWER LED is on.



To properly connect the thermostat to the control unit, first select the zone you want to link with the thermostat using the SELECT button (1) on the control unit. The LED (2) will blink three times for the selected zone. Confirm the selection by pressing the PAIR button (2). The LED (2) will start blinking green for the selected zone – pairing mode is active for 10 minutes, during which you can connect the thermostat to the selected zone.



On the thermostat, hold the \triangle and \checkmark buttons until the message "bind" appears.



When pairing is successful, the message "End" appears.



Release the buttons – the thermostat pairing function is active.



Both devices are successfully connected. The thermostat main screen displays the " ((•))" icon indicating connection to the receiver.



Pairing takes up to 300 seconds.

ATTENTION: If pairing fails, repeat the process, considering distance between devices, obstacles, and possible local radio interference.

REMEMBER: Signal range can be extended with ZigBee repeaters.

WARNING: If communication between devices is lost, the relay switches off after 50 minutes.



☑ Factory reset

To restore the factory settings, press and hold the PAIR button for 10 seconds, red LED diode will start fl ashing red. The control box will be cleared from the ZigBee network and gateway memory and enters pairing mode. You can add it back to the ZigBee network (see STEP 3 - Installation FloorHub Wireless in the app).



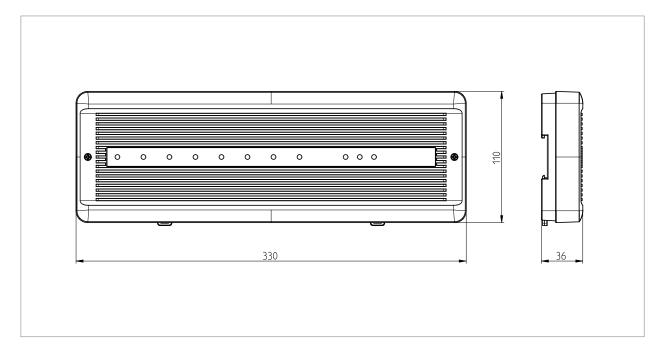


HERZ Thermiq FloorHub Wired

Control box for underfloor heating system

Datasheet 3 F820 12

Dimensions



Order Nr.	Connectivity	Power supply	L1 [mm]	L2 [mm]	H [mm]
3 F820 12	Wired	230 V AC 50 Hz	330	110	36

☑ Technical Data

Electrical specifications:

230 V AC 50 Hz Power Supply

Protection class IP20 Total Load Max 6(3) A Pump Load Max 3A **Boiler Load** Max 6A **Actuator Load** Max 2A Thermostat Load Max 1A

Boiler control (NO/COM/NC) Pump control (AC 230V) Outputs

Terminals for actuators (AC 230V)

Inputs 8 wired zones

Scope of Supply

- HERZ Thermiq FLOORHUB Wired Control box
- HERZ Thermiq FLOORHUB Wired installation guide

☑ Field of application

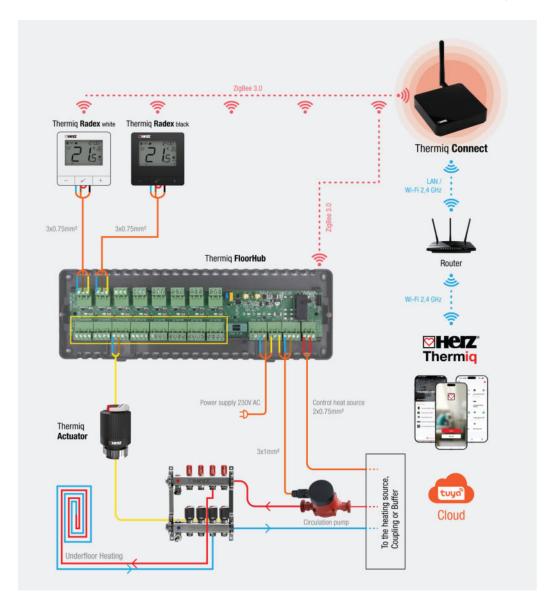
The HERZ Thermiq FloorHub Wired is the central component of the underfloor heating control system, designed for precise and reliable regulation of multiple heating zones. It supports the control of up to 8 zones and is equipped with 230 V AC outputs for connecting thermoelectric actuators (NC type).

The unit features a built-in module for heat source control via a volt-free relay and a 230 V AC output for pump



control, ensuring coordinated operation between the circulation pump and the heat source.

For easy installation and maintenance, the FloorHub includes quick-connect pluggable terminal blocks, allowing convenient and error-free wiring. Compact and robust in design, it provides dependable performance and serves as the main link between room thermostats, actuators, and the heat source within the HERZ Thermiq system.



Product highlights

- Central unit for underfloor heating control
- Controls up to 8 heating zones with 230 V AC outputs
- Built-in modules for pump and heat-source control
- Compatible with NC-type thermoelectric actuators
- Quick-connect terminal blocks for easy wiring
- Ensures efficient and reliable zone regulation

☑ Safety information and installation

Use in accordance with national and EU regulations. Device is intended for indoor use only in dry conditions. Product for indoor use only. Installation must be carried out by aqualifi ed person in accordance to national and EU regulations. Before attempting to setup and install, make sure that Herz Thermiq FloorHub is not connected

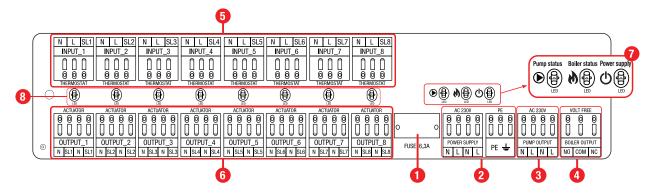
to any power source. Installation must be carried out by a qualified person. Incorrect installation may cause damage to the wiring centre. The Herz Thermiq FloorHub control box should not be installed in areas where it may be exposed to water or damp conditions.

For the entire installation, there may be additional protection requirements, which the installer is responsible for.



□ Control box description

- 1. Cartridge fuse 5 x 20 mm T6, 3A
- 2. Power supply (AC 230V)
- 3. Pump control output (AC 230V)
- 4. Boiler control output (volt free)
- 5. Thermostats input connections
- 6. Actuators output connections (AC 230V)
- 7. LED diodes indicators for the operation status of the pump, boiler and control box power supply connection
- 8. LEDs 1 to 8 informing about the operation of zones 1-8



☑ Fuse

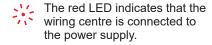
PLEASE NOTE: Replacement of the fuse to be carried out only when the control box is disconnected from power supply (230 V ~). Main fuse is located under the housing cover next to power supply terminals and secures the control box and the devices connected to it. Use ceramic tube slow blow 250 V ROHS fuses (5x20 mm) with nominal max current 6,3A. To replace fuse remove the fuse holder with a flat screwdriver and pull out the fuse.

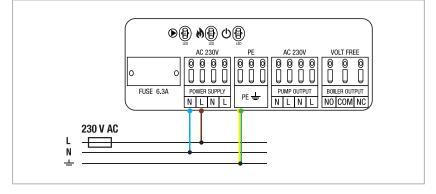
☑ Power supply

Power supply for wiring centre is 230 V ~ 50Hz.

Installation features:

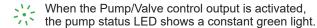
- three-wire.
- made in accordance with applicable regulations

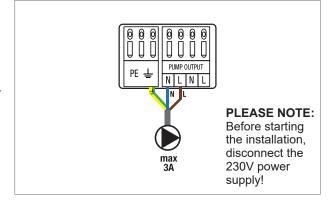




☑ Pump control output (AC 230V)

The PUMP OUTPUT is used to power the circulation pump in the heating system. It is a 230V AC voltage output with a maximum load capacity of 3A. The pump is connected directly to the contacts. The output is turned on (the pump starts) always after 3 minutes from the moment of receiving a heating signal from any thermostat connected to the wiring centre. The output is turned off (the pump stops) as soon as the last thermostat stops reporting heat demand.



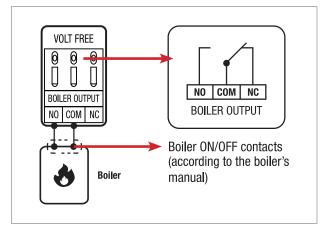




☑ Boiler control output (volt free)

The boiler control output is supported by a relay with voltage-free contacts (NO / COM / NC output). The boiler must be connected to the COM-NO or COM-NC contacts. It is a typical two-state relay. If the thermostats connected to the wiring center send a signal for heating, the BOILER output contacts activate the relay with a 3-minute delay, allowing the boiler to be turned on. The boiler is turned off immediately, when none of the zones sends a signal for heating.

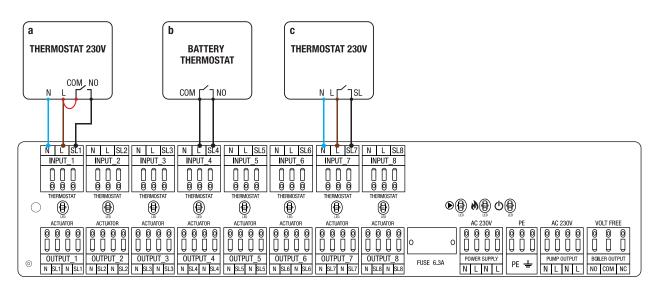
When the BOILER control output is activated, the boiler status LED shows a constant green light.



☑ Thermostat input connections

- a) 230V thermostat connection (with COM / NO voltage-free contacts), e.g. Thermiq Dualis Black / White Edition
- b) Connecting a battery ON / OFF thermostat (with voltage-free COM / NO contacts), e.g. Thermiq Dualis Black / White Edition
- c) 230V thermostat connection (with SL 230V voltage output)

L	230 V live terminal		
N	Neutral		
SL1 SL8	230 V control signal		
SL	Output thermostat signal 230 V AC		



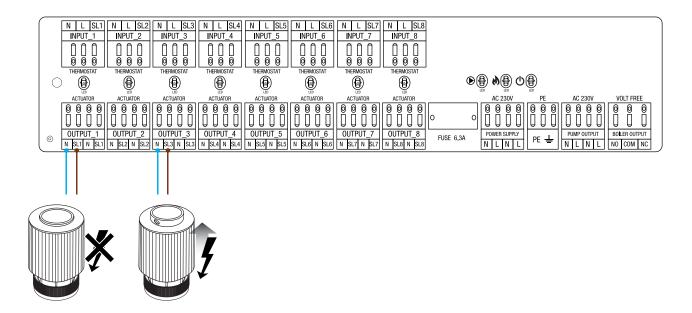
☑ Actuators output connections

Actuators wires should be plugged into the pluggable terminal blocks of the respective zones. Maximum current load for each zone is designed to handle up to 6 actuators with a power of 2W each. With more actuators in one zone, an additional relay should be used to make sure that actuators output will be not overloaded.

- When the actuator has no power, it is closed.
- After applying 230V voltage, the actuator will open.
- Example based on Actuator 3F82051/ 3F82052

PLEASE NOTE: Depends on the thermostat heating state - 230 V AC may appear on the actuators output.

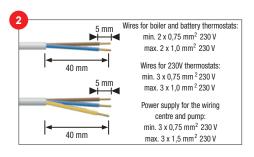




☑ Installation



Remove the top cover of the control box.



Wires for the boiler and battery-powered thermostats: min. 2 x 0.75 mm² 230 V / max. 2 x 1.0 mm² 230 V

Wires for 230 V thermostats: min. 3 x 0.75 mm² 230 V / max. 3 x 1.0 mm² 230 V

Power supply for the wiring centre and pump: min. 3 x 0.75 mm 2 230 V / max. 3 x 1.5 mm 2 230 V

Remove the appropriate section of insulation from the wires.



Connect the wires according to the connection description. Refer to the sticker under the top cover.



Once you are sure that all wires are correctly connected, install the top cover and connect the wiring centre to the 230 V power supply – the red "Power" LED will light up.





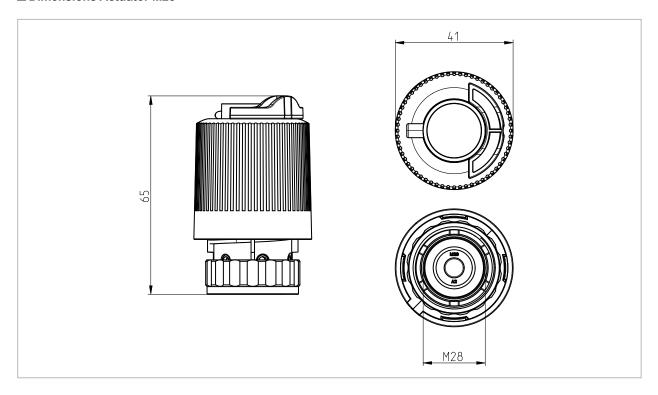


HERZ Thermiq Actuator

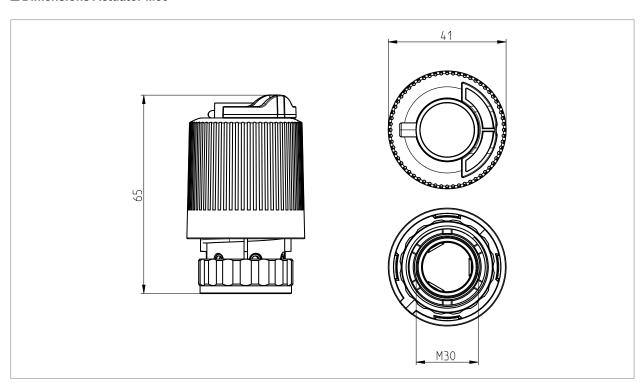
Motor actuator for underfloor heating system

Datasheet 3 F820 5X

☑ Dimensions Actuator M28



☑ Dimensions Actuator M30





Order Nr.	Thread	Power supply	L2 [mm]	H [mm]
3 F820 51	M28 x 1,5	230 V AC 50 Hz	65	41
3 F820 52	M30 x 1,5	200 7 7 0 00 112		71

☑ Technical Data

Version NC = Normally Closed

Thread size M28 x 1,5 mm (3 F820 51)

M30 x 1,5 mm (3 F820 52)

Power supply 230V AC

Power consumption 2W

Max. Inrush current 300mA / 200ms
Closing force 100 N +/- 15%

Max. stroke 4.5 mm

Storage temp. From -25°C to +60°C

Ambient temp. Max. 60°C
Protection class IP 54/II
Cable length 90 cm

Scope of Supply

- HERZ Thermiq Actuator
- HERZ Thermiq Actuator installation guide

☑ Product highlights

- Designed for precise on/off control of underfloor heating circuits
- Compatible with thermostatic valves on manifolds or with zone valves
- Operates directly with room thermostats or via control unit (wiring center)
- Ensures silent, maintenance-free, and energy-efficient operation
- Compact design allows quick and easy installation in limited spaces
- Durable construction guarantees long service life and reliable performance

☑ Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions. For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ Actuator description

- 1. Stroke indicator
- 2. Installation pin
- 3. Actuator body
- 4. Connection nut



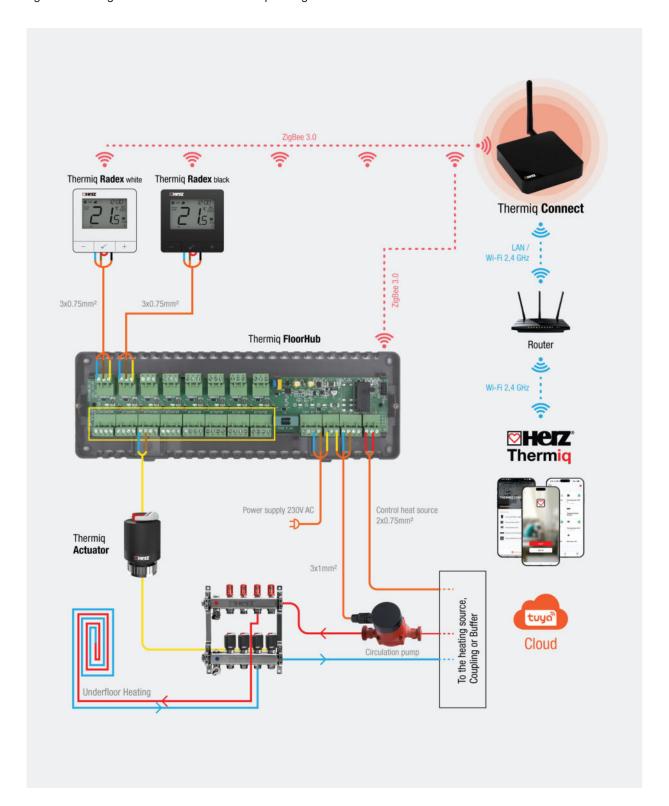


☑ Field of application

The thermoelectric actuator is designed for precise control of underfloor heating circuits. It operates by opening or closing the flow of the heating medium through the corresponding valve, thus regulating the temperature in individual zones or rooms.

The actuator is compatible with thermostatic valves installed on underfloor heating manifolds or with dedicated zone valves. It can be controlled directly by a room thermostat or indirectly via a control unit (wiring center).

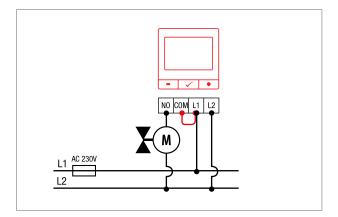
Featuring silent and maintenance-free operation, the actuator ensures reliable performance and optimized energy efficiency. Its compact design allows easy installation even in confined spaces, while the high-quality materials guarantee long service life and consistent operating characteristics.

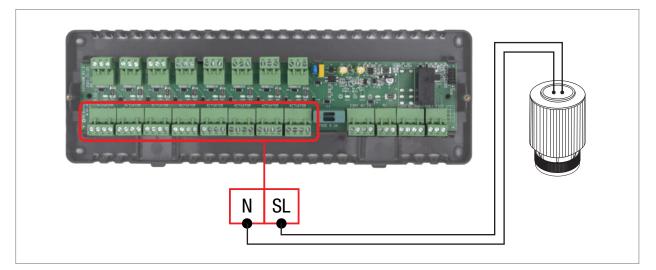




☑ Actuator description

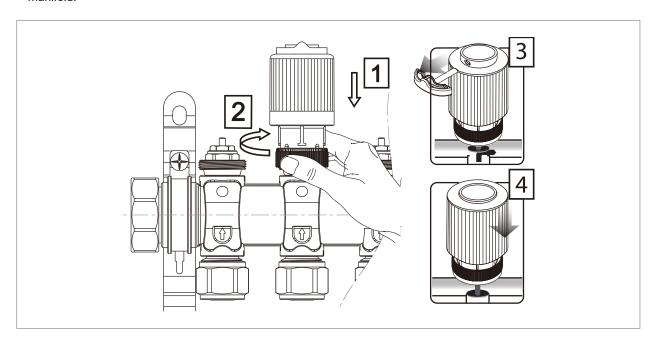
- 1. Stroke indicator
- 2. Installation pin
- 3. Actuator body
- 4. Connection nut





☑ Installation

- 1. Place the actuator vertically on the valve body and align the threaded connection.
- 2. Hand-tighten the connection nut by turning it clockwise until the actuator is securely fixed to the valve. Ensure that the valve is correctly mounted on the manifold.
- 3. Remove the white Installation pin.
- 4. Check that the actuator is properly seated the position indicator should move downward when the installation pin is removed in step 3.





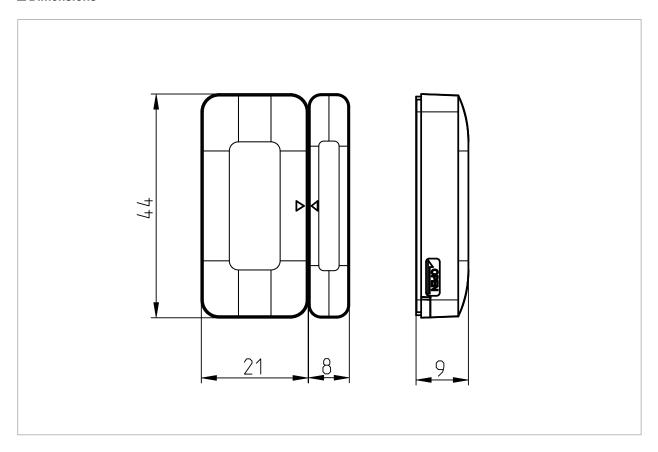


HERZ Thermiq Window Guard

Door / window sensor

Datasheet 3 F820 68

Dimensions



Order Nr.	Power supply	Communication
3 F820 68	2x Battery CR1632	ZigBee

☑ Technical Data

Communication ZigBee 3.0, 2,4 GHz

Max distance between elements 15mm

Power supply 2x Battery CR1632

Scope of Supply

- HERZ Thermiq EXTEND MOD
- HERZ Thermiq EXTEND MOD installation guide

☑ Field of application

The HERZ Thermiq Window/Door Sensor is a compact, battery-powered device that detects the open or closed status of windows, doors, or other movable elements. It communicates via the ZigBee 3.0 protocol and immediately sends a signal to the HERZ Thermiq App whenever the magnetic contact changes state.

It can be integrated into smart automation scenarios—for example, to switch thermostats to frost protection mode



when a window is opened. With its miniature size, it fits easily onto any window or door frame. The ZigBee internet gateway is required for operation.

Product highlights

- · Detects window or door opening and closing via magnetic contact
- Works with ZigBee 3.0 protocol and HERZ Thermiq App
- Supports smart automation (e.g. thermostat frost mode when window opens)
- Miniature design fits all types of windows and doors
- · LED indicator for device status
- · Simple, wireless installation battery-powered
- Requires HERZ Thermiq ZigBee gateway for operation

Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions. For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ Device Description

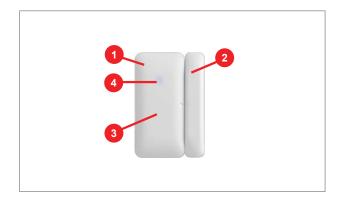
- 1. Sensor
- 2. Magnet
- 3. Function button

Pressing for 8 seconds activates pairing mode and factory reset.

4. LED diode

Flashing blue – active pairing mode with the application

Single blue flash - open/closing detection



☑ Installation sensor in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.

STEP 1 - DOWNLOAD HERZ THERMIQ APP

Download the HERZ Thermiq app from Google Play or Apple App Store and install it on your smartphone.

STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:



Click "Sign Up" to create new account.



Enter your e-mail address to which the verification code will be sent.







Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!

Then set the login password.

☑ Connect the sensor to ZigBee Network

After installing the application and creating an account, follow these steps:







Make sure ZigBee gateway has been added to the HERZ Thermiq app. Press Enter the gateway interface. and hold the button for about 8 seconds until the blue LED starts flashing. The sensor will enter pairing mode.



In "Zigbee devices list" go "Add devices".



Wait until the application finds the device and click "Done".



The sensor has been installed and displays the main interface.



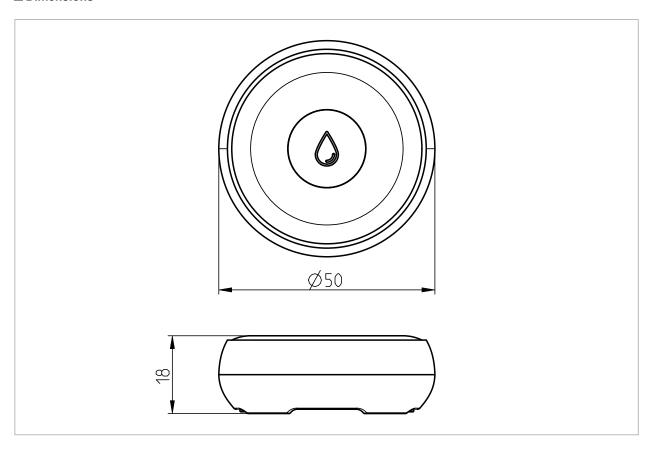


HERZ Thermiq Water Guard

ZigBee water leak sensor

Datasheet 3 F820 67

Dimensions



Order Nr.	Power supply	D [mm]	H [mm]
3 F820 67	Battery CR2032	Ф50	18

☑ Technical Data

Communication ZigBee 3.0, 2,4 GHz

Protection class IP66

Power supply Battery CR2032

☑ Scope of Supply

- HERZ Thermiq EXTEND MOD
- HERZ Thermiq EXTEND MOD installation guide

☑ Field of application

The HERZ Thermiq Water Leakage Sensor is a compact, battery-powered device designed for early detection of water leaks and flooding in residential or commercial applications. It communicates via the ZigBee 3.0 protocol and integrates seamlessly with the HERZ Thermiq system through the Thermiq CONNECT internet gateway.

Equipped with high-sensitivity electrodes, the sensor reacts instantly to even a small amount of water, providing a



fast alarm response to prevent costly damage caused by flooding or unnoticed leakage. The LED indicator and inapp alarm notifications immediately inform the user about the incident.

The sensor is powered by a CR2032 battery, ensuring long-term, maintenance-free operation. It can be easily installed by simply placing it on the floor in areas prone to leakage, such as under washing machines, dishwashers, boilers, or near manifolds and valves.

Within the HERZ Thermiq App, users can review alarm history, battery level, and even create automation rules — for example, automatically activating a pump or closing a water supply valve in case of flooding.

The device provides effective and reliable protection against water damage, ensuring peace of mind and safety in all installations.

Product highlights

- High sensitivity ensures fast detection of water leakage or flooding
- Wireless communication via ZigBee 3.0 protocol
- Sends instant alarm notifications to the HERZ Thermiq App
- LED indicator provides local visual alarm signalling
- Enables smart automation scenarios (e.g. close valve or start pump)
- · Easy floor installation no wiring required
- Long-life CR2032 battery included for maintenance-free operation
- Battery level and alarm history available in the App
- Compatible with the HERZ Thermiq CONNECT gateway

Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions. For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ Device Description

1. Function button

Pressing for 8 seconds activates pairing mode and factory reset.

2. Two colour LED diode

Flashing red – active pairing mode with the application / Single red flash – flood detection.

- 3. Flood Sensors
- 4. Battery socket





☑ Installation sensor in the app

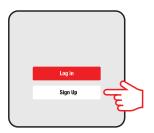
Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.

STEP 1 - DOWNLOAD HERZ THERMIQ APP

Download the HERZ Thermiq app from Google Play or Apple App Store and install it on your smartphone.

STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:





Click "Sign Up" to create new account.

Enter your e-mail address to which the verification code will be sent.





Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!

Then set the login password.

□ Connect the sensor to ZigBee Network

After installing the application and creating an account, follow these steps:







and hold the button for about 8 seconds until the LED starts flashing. The sensor will enter pairing mode.

Make sure ZigBee gateway has been added to the HERZ Thermig app. Press Enter the gateway interface.



In "Zigbee devices list" go "Add devices".



Wait until the application finds the device and click "Done".



The sensor has been installed and displays the main interface.



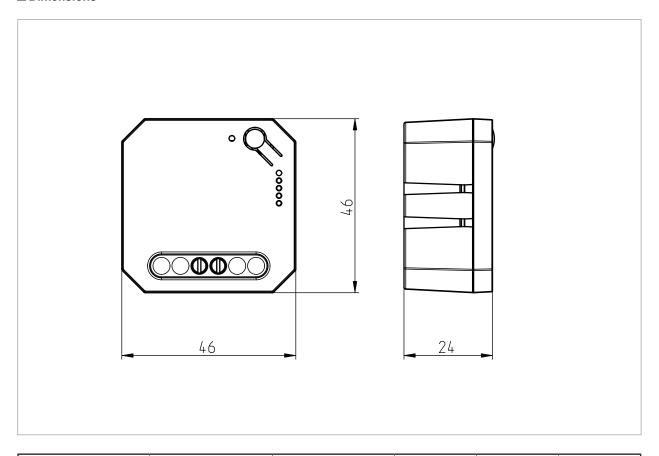


HERZ Thermiq MultiSwitch ZigBee

Smart relay

Datasheet 3 F820 65

☑ Dimensions



Order Nr.	Connectivity	Power supply	L1 [mm]	L2 [mm]	H [mm]
3 F820 65	ZigBee	230 V AC 50 Hz	46	24	46

☑ Technical Data

Power Supply 230 V AC 50 Hz

Max load 16(5) A
Communication ZigBee 3.0

Output COM / NO (Volt-free)

Input Volt-free contact input or temperature sensor Thermiq HeatGuard

Sensor temperature range -40°C to 120°C

Scope of Supply

- HERZ Thermiq MultiSwitch ZigBee
- HERZ Thermiq MultiSwitch installation guide



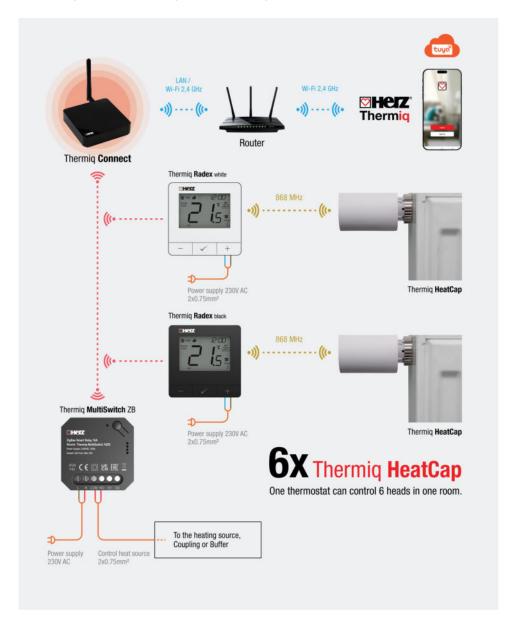
☑ Field of application

The MultiSwitch ZigBee relay enables wireless control of various devices within a smart home, such as heat sources, circulation pumps, fans, lighting, gates, and electric heaters.

It supports connection of the HERZ Thermiq Heat Guard temperature sensor, allowing the creation of smart rules and automation scenarios based on temperature readings.

The compact design fits into a standard installation box, making it ideal for mounting behind a light switch or mains socket. It can also be installed on a DIN rail using the supplied bracket. A ZigBee internet gateway is required for its correct operation.

The relay integrates seamlessly with the HERZ Thermiq App and supports voice control via Amazon Alexa and Google Home, offering flexible and intelligent home management.



Product highlights

- · Wireless control of heating, pumps, lighting, and more
- Compatible with HERZ Thermiq Heat Guard sensor
- Enables smart rules and temperature-based automation
- Fits in standard installation boxes or on DIN rail
- Works with HERZ Thermiq App for easy management
- Supports voice control via Amazon Alexa and Google Home



☑ Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions. For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ ZigBee relay description

- 1. Power supply 230V AC
- 2. Volt free output
- 3. Volt free input or input for connecting the Thermiq HeatGuard temperature sensor
- 4. Function button
- 5. LED diode indicating the status of the module.

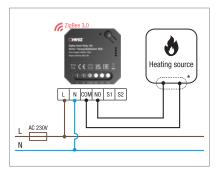


LED diode flashes quickly on red	The device is in pairing mode with the ZigBee network (when the device does not has been previously added to the ZigBee network , or after restoring factory settings)	
LED diode flashes slowly on red	The device is in binding mode (when the device has been previously added to ZigBee network)	
LED diode lights up green	Relay of the module has been turned ON	

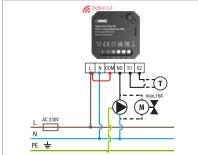
☑ Button functions

Press 1 time	Control of the modules relay (ON/OFF)	
Press and hold approx. 8 seconds until the LED will start flashing red	Module reset (module will be removed from the ZigBee network and automatically will go into pairing mode)	
Press quickly 5 times	Enables binding proces (to link module with thermostat)	

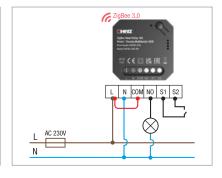
☑ Connection description



a) Connection diagram for heating source



b) Connection diagram for pump / actuator



c) Connection diagram for lighting



Boiler connection* - Boiler's contacts for ON/OFF thermostat (according to the boiler's instructions)		
L, N	230V AC power supply	
PE '	Ground (electricity)	
-	Fuse	
COM, NO	Voltage-free output	

S1 / S2	Voltage-free input or input for connecting the Thermiq Heat Guard temp. sensor	
	Pump	
T	Temperature sensor	
\otimes	Light (bulb)	
M¥	Valve Actuator	
-∕-	External NO Contact	

☑ Installation of the relay in the app

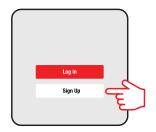
Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.

STEP 1 - DOWNLOAD HERZ THERMIQ APP

Download the HERZ Thermiq app from Google Play or Apple App Store and install it on your smartphone.

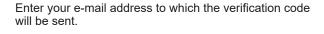
STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:





Click "Sign Up" to create new account.







Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!

Then set the login password.

STEP 3 - CONNECT THE RELAY TO ZIGBEE NETWORK

After installing the application and creating an account, follow these steps:





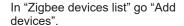


Make sure ZigBee gateway has been added to the HERZ Thermiq app. Make sure the relay is connected to the power supply. Red LED should flash quickly. If not, hold down the button for about 8 seconds. The relay will enter pairing mode.

Enter the gateway interface.









Wait until the application finds the device and click "Done".



The relay has been installed and displays the main interface.

☑ External temperature sensor connection

Contacts S1/S2 can be used to connect the Thermiq HeatGuard temperature sensor. To activate the sensor, follow the steps below:

- 1. Make sure the sensor is connected. Then go to "Settings"
- 2. Click "Switch type setting"
- 3. Select "Temperature sensor"
- 4. The measured temperature value appeared on the relay main screen.





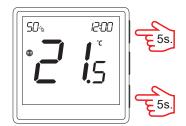


☑ Binding thermostat with the module / relay

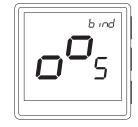
Make sure that the relay and thermostat are in the same ZigBee network (they are added to the same gateway).



To properly bind thermostat with the relay first click quickly the button on the device 5 times. Red LED diode will start flashing slowly, which means the device will enable binding mode.



On the Thermiq Dualis thermostat, hold ▲ & ▼ buttons until the "bind" message appears.



Release the keys, binding function (process of linking thermostat with control box) is active.



The "binding" process takes up to 300 seconds.



After successful binding operation "End" message will be displayed. LED on the module will stop flashing.



Both devices have been successfully linked. Thermostat displays the main screen, icon " ((•))" appeared on the screen indicating connection with the receiver.



ATTENTION: If the binding process fails, it must be repeated taking into account the distances between devices, obstacles and local radio signal interferences. When the thermostat is binded with the module, the relay will turn off after 50 minutes, if the communication between the devices is lost.

REMEMBER: Radio range can be increased by Herz Thermiq ZigBee repeaters.



☑ Factory reset

To reset the device, press and hold the function button for approx. 8 seconds until the LED flashes red. The relay will be removed from the application, then goes into pairing mode. Now it's possible to add the relay again (see STEP 3 - CONNECT THE RELAY TO WIFI).





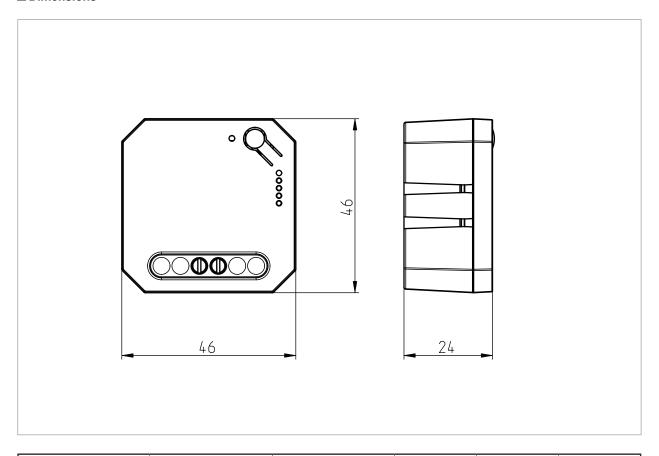


HERZ Thermiq MultiSwitch Wi-Fi

Smart relay

Datasheet 3 F820 66

☑ Dimensions



Order Nr.	Connectivity	Power supply	L [mm]	H [mm]	L1 [mm]
3 F820 66	Wi-Fi	230 V AC 50 Hz	46	24	46

☑ Technical Data

Power Supply 230V AC 50Hz

Max load 16(5) A

Communication Wi-Fi 2,4 GHz

Output COM / NO (Volt-free)

Input Volt-free contact input or temperature sensor Thermiq HeatGuard

Sensor temperature range -40°C to 120°C

Scope of Supply

- HERZ Thermiq MultiSwitch
- HERZ Thermiq MultiSwitch installation guide



Scope of Supply

The Wi-Fi relay enables wireless control of various electrical devices such as heat sources, circulation pumps, fans, lighting, gates, or electric heaters.

It supports connection with the HERZ Thermiq EFS300 temperature sensor, allowing the creation of smart rules and automations based on temperature readings.

The device can be installed in an installation box (under a light switch or socket) or mounted on a DIN rail using the included bracket.

It integrates seamlessly with Amazon Alexa and Google Home, enabling voice control and full smart-home functionality.

Product highlights

- Wireless control of multiple electrical devices
- Supports HeatGuard temperature sensor for smart automations
- Compact design for in-wall or DIN rail installation
- Compatible with Amazon Alexa and Google Home
- Enables creation of smart rules and scenarios
- Reliable Wi-Fi communication within the HERZ Thermig ecosystem

Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions. For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ Wi-Fi relay description

- 1. Power supply 230V AC
- 2. Volt free output
- 3. Volt free input or input for connecting the Thermiq HeatGuard temperature sensor
- 4. Function button
- 5. LED diode indicating the status of the module.



☑ Explanation for LED indicator

LED diode flashes on red	The device is in pairing mode with the application (when the device has not been previously added to the app, or after restoring factory settings)		
LED diode lights up green	Relay of the module has been turned ON		

☑ Button functions

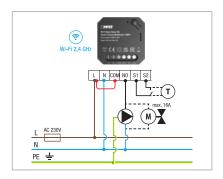
Press 1 time	Control of the modules relay (ON/OFF)
Press and hold approx. 8 seconds until the LED will start flashing red	Module reset (module will be removed from application and automatically will go into pairing mode)

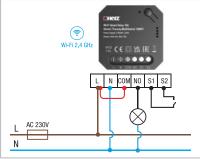


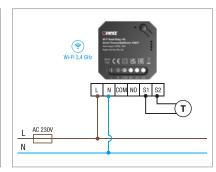
☑ Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions. For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ Connection description







- a) Connection diagram for pump/ actuator
- b) Connection diagram for lighting
- c) Connection diagram for temperature sensor

L, N	230V AC power supply	
PE 	Ground (electricity)	
-	Fuse	
COM, NO	Voltage-free output	
S1/S2	Voltage-free input or input for connecting the Thermiq Heat Guard temperature sensor	

•	Pump	
T	emperature sensor	
\otimes	_ight (bulb)	
MX	Valve Actuator	
→	External NO Contact	

☐ Installation of the relay in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.

STEP 1 - DOWNLOAD HERZ THERMIQ APP

Download the HERZ Thermiq app from Google Play or Apple App Store and install it on your smartphone.

STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:





Click "Sign Up" to create new account.

Enter your e-mail address to which the verification code will be sent.



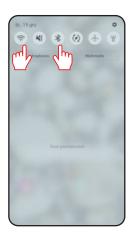




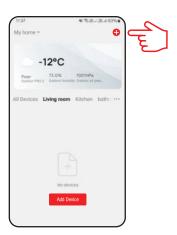
Enter the verification code received in the email. Remember
Then set the login password. that you only have 60 seconds to enter the code!

☑ Connect the relay to Wi-Fi

After installing the application and creating an account, follow these steps:





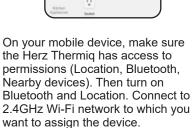


On your mobile device, make sure the Herz Thermiq has access to permissions (Location, Bluetooth, Nearby devices). Then turn on Bluetooth and Location. Connect to 2.4GHz Wi-Fi network to which you want to assign the device.

Make sure the relay is connected to the power supply. Red LED should flash quickly. If not, hold down the button for about 8 seconds. The relay will enter pairing mode.

In the app, select: "Add Device".







Make sure the relay is connected to the power supply. Red LED should flash quickly. If not, hold down the button for about 8 seconds. The relay will enter pairing mode.

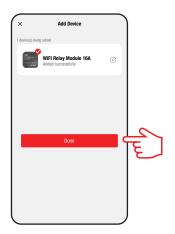


In the app, select: "Add Device".





On your mobile device, make sure the Herz Thermiq has access to permissions (Location, Bluetooth, Nearby devices). Then turn on Bluetooth and Location. Connect to 2.4GHz Wi-Fi network to which you want to assign the device.



Make sure the relay is connected to the power supply. Red LED should flash quickly. If not, hold down the button for about 8 seconds. The relay will enter pairing mode.



In the app, select: "Add Device".

☑ External temperature sensor connection

Contacts S1/S2 can be used to connect the Thermiq HeatGuard temperature sensor. To activate the sensor, follow the steps below:



Make sure the sensor is connected. Then go to "Settings"



Click "Switch type setting"



Select "Temperature sensor"



The measured temperature value appeared on the relay main screen.

☑ Factory reset

To reset the device, press and hold the function button for approx. 8 seconds until the LED flashes red. The relay will be removed from the application, then goes into pairing mode. Now it's possible to add the relay again (see STEP 3 - CONNECT THE RELAY TO WIFI).





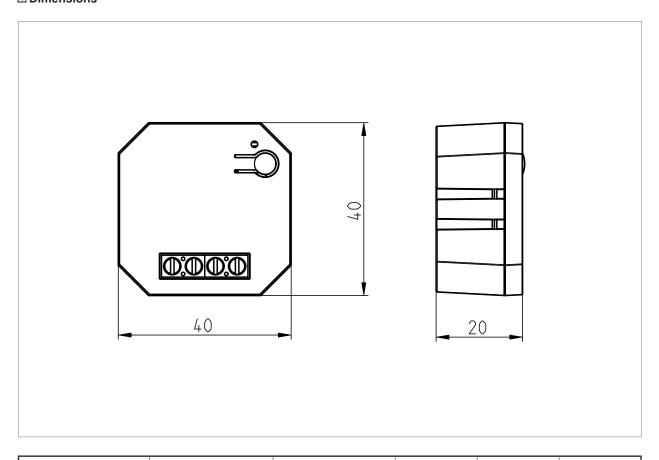


HERZ Thermiq Extend-MOD

ZigBee Repeater

Datasheet 3 F820 76

☑ Dimensions



Order Nr.	Connectivity	Power supply	L [mm]	H [mm]	L1 [mm]
3 F820 76	ZigBee 3.0	230 V AC 50 Hz	40	40	20

☑ Technical Data

Power Supply 230V AC 50Hz
Communication ZigBee 3.0, 2,4 GHz

Scope of Supply

- HERZ Thermiq EXTEND MOD
- HERZ Thermiq EXTEND MOD installation guide

☑ Field of application

The HERZ Thermiq ZigBee Repeater extends the wireless communication range between ZigBee 3.0 devices and the HERZ Thermiq Gateway.

It is designed to improve signal strength and stability in areas where the wireless connection may be weakened by distance or structural obstacles such as concrete walls or reinforced ceilings.

The repeater ensures reliable communication across the HERZ Thermiq network but cannot operate independently without a ZigBee 3.0 gateway Thermiq CONNECT.



☑ Product highlights

- Extends the ZigBee 3.0 network range for all HERZ Thermiq devices
- Improves wireless signal in areas with poor connectivity or interference
- · Ideal for installations with thick walls or long distances between devices
- · Ensures stable communication between Thermiq devices and gateway
- Simple plug-in installation no additional configuration required
- Requires HERZ Thermiq ZigBee 3.0 gateway for operation

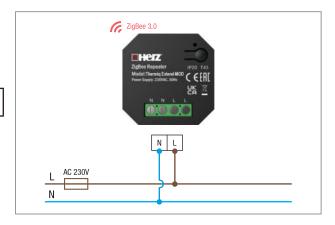
☑ Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions. For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ Connection description

Wiring Diagram (right image)
Repeater Contact Description:

ı	L, N	230V AC power supply
	L, IN	230 v AC power suppry



☑ LED diode indications

LED diode flashes blue	The device is in pairing mode with ZigBee network (when device didn't previously added to the ZigBee 3.0 network, or after recovery factory reset)
LED diode lights up blue	The device has been added to the ZigBee 3.0 network
LED diode is off	Repeater is not connected to power supply 230V

☑ Installation of the repeater in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.



STEP 1 - DOWNLOAD HERZ THERMIQ APP

Download the HERZ Thermiq app from Google Play or Apple App Store and install it on your smartphone.



STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:

- Click "Sign Up" to create new account.
- Enter your e-mail address to which the verification code will be sent.





 Enter the verification code received in the email.
 Remember that you only have 60 seconds to enter the code!



Then set the login password.

□ Connect the sensor to the ZigBee network

After installing the application and creating an account, follow these steps:



Make sure you have added the ZigBee gateway to the app.



Make sure the repeater is connected to the power supply. The blue LED should flash. If not, perform a factory reset (check "Factory reset" section).



Enter the gateway interface.



Make sure you have added the ZigBee gateway to the app.



Make sure the repeater is connected to the power supply. The blue LED should flash. If not, perform a factory reset (check "Factory reset" section).



Enter the gateway interface.

☑ Factory reset

Unplug and plug again the repeater three times at intervals of 3 seconds. The LED on the device will flash, which means repeater has been removed from the ZigBee network and gateway. After that repeater will enter pairing mode automatically. You can add it back to the ZigBee network (check "STEP 3" section).



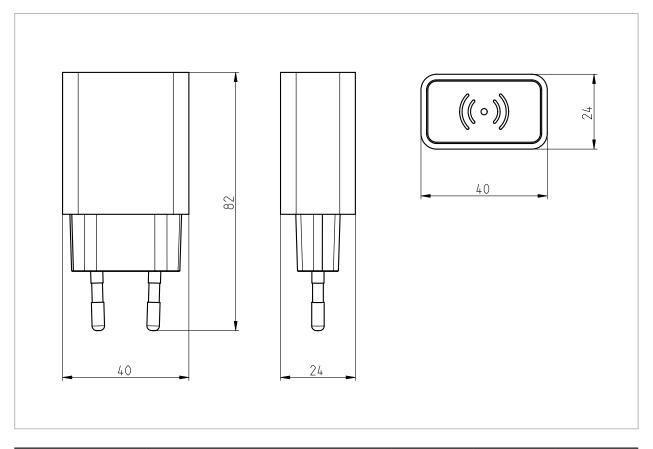


HERZ Thermiq Extend

ZigBee Repeater

Datasheet 3 F820 75

Dimensions



Order Nr.	Connectivity	Power supply	L [mm]	H [mm]	L1 [mm]
3 F820 75	ZigBee 3.0	230 V AC 50 Hz	40	82	24

☑ Technical Data

Power Supply 230V AC 50Hz
Communication ZigBee 3.0, 2,4 GHz

Scope of Supply

- HERZ Thermiq EXTEND
- HERZ Thermiq EXTEND installation guide

☑ Field of application

The HERZ Thermiq ZigBee Repeater extends the wireless communication range between ZigBee 3.0 devices and the HERZ Thermiq Gateway.

It is designed to improve signal strength and stability in areas where the wireless connection may be weakened by distance or structural obstacles such as concrete walls or reinforced ceilings.

The repeater ensures reliable communication across the HERZ Thermiq network but cannot operate independently without a ZigBee 3.0 gateway Thermiq CONNECT.



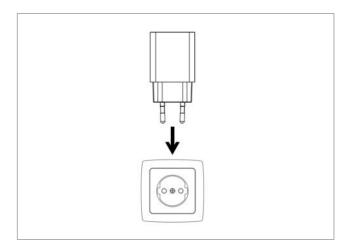
Product highlights

- Extends the ZigBee 3.0 network range for all HERZ Thermiq devices
- · Improves wireless signal in areas with poor connectivity or interference
- · Ideal for installations with thick walls or long distances between devices
- Ensures stable communication between Thermiq devices and gateway
- Simple plug-in installation no additional configuration required
- Requires HERZ Thermiq ZigBee 3.0 gateway for operation

Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions. For the entire installation, there may be additional protection requirements, which the installer is responsible for.

□ Connection description



☑ LED diode indications

LED diode flashes blue	The device is in pairing mode with ZigBee network (when device didn't previously added to the ZigBee 3.0 network, or after recovery factory reset)
LED diode lights up blue	The device has been added to the ZigBee 3.0 network
LED diode is off	Repeater is not connected to power supply 230V

☑ Installation of the repeater in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.



STEP 1 - DOWNLOAD HERZ THERMIQ APP

Download the HERZ Thermiq app from Google Play or Apple App Store and install it on your smartphone.



STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:

- Click "Sign Up" to create new account.
- Enter your e-mail address to which the verification code will be sent.





 Enter the verification code received in the email.
 Remember that you only have 60 seconds to enter the code!



Then set the login password.

□ Connect the sensor to ZigBee Network

After installing the application and creating an account, follow these steps:



Make sure you have added the ZigBee gateway to the app.



Make sure the repeater is connected to the power supply. The blue LED should flash. If not, perform a factory reset (check "Factory reset" section).



Enter the gateway interface.



In "ZigBee devices list" go to "Add devices".



Wait until the application finds the device and click "Done".



The repeater is installed. Blue LED diode is steady and the app shows the main interface.

☑ Factory reset

Unplug and plug again the repeater three times at intervals of 3 seconds. The LED on the device will flash, which means repeater has been removed from the ZigBee network and gateway. After that repeater will enter pairing mode automatically. You can add it back to the ZigBee network (check "STEP 3" section).





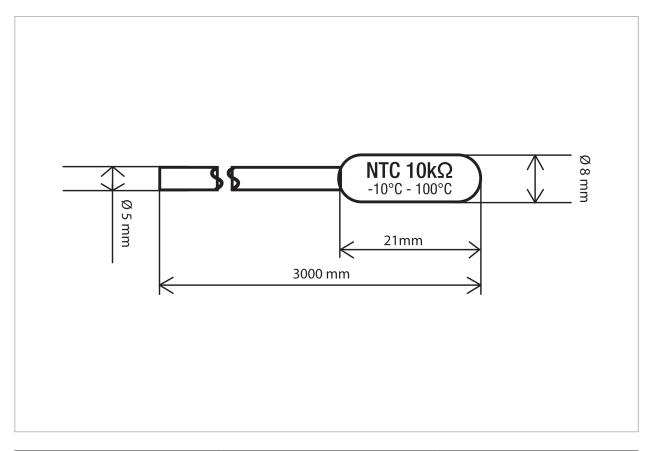


HERZ Thermiq Heat Guard

Temperature senzor

Datasheet 3 F820 61

Dimensions



Order Nr.	Measuring element	L [mm]
3 F820 61	ΝΤС 10kΩ	3000

☑ Technical Data

Measuring range-10°C - 100°CMeasuring elementNTC 10kΩCable length3 m

Cross section 2 x 0,5 mm2

Scope of Supply

- HERZ Thermiq HeatGuard
- HERZ Thermiq HeatGuard installation guide

☑ Field of application

The floor temperature sensor is designed as a safety element for underfloor heating systems, preventing overheating or overcooling of the floor surface. It is primarily intended for installation in the floor but can also be used to measure air temperature or monitor other devices. The sensor is ideal for the "Comfortable Floor" function in the HERZ Thermiq DUALIS thermostat.



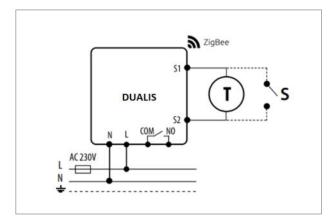
☑ Product highlights

- · Protects floor from overheating or overcooling
- Ideal for "Comfortable Floor" function in Thermiq DUALIS controller
- · Suitable for installation in the floor
- Can also measure air or surface temperature of other devices
- · Compact design for easy installation
- Compatible with Thermiq DUALIS thermostats

☑ Safety information and installation

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use. Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for noncompliance with the instructions. For the entire installation, there may be additional protection requirements, which the installer is responsible for.

☑ Connection description



L, N	230V power supply
COM, NO	Voltage-free output
Т	Temperature sensor
s	Voltage-free output
S1, S2	Input for external temperature sensor or hotel card - voltage free
-	Fuse
S1, S2	Connection with ZigBee 3.0 Network