

TECH CONTROLLERS

Sinum

Your home in tune with you.



Heating



Lighting



and savings

tech-controllers.com

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Sinum mobile application

Cockpit

You will find here all the most important information about your home. You may customize the cockpit freely in order to suit your preferences by adding your favourite rooms, devices, scenes or automations.

Add your favourite rooms, devices or scenes to your home screen.

Rooms

Get instant access to the most frequently used features.

In the room view, you will find all the devices assigned to it.

Enjoy full control over the room temperature using virtual thermostats. You can also view the temperature, air pressure and air quality statistics.

Create rooms and easily add devices to them.

View room statistics and control the parameters of each of them.



Scenes and automations

Combine actions into scenes and trigger them at any time from the comfort of your armchair. Configure automations so that you do not have to worry about day-to-day home activities. The system will start them automatically at a given time.

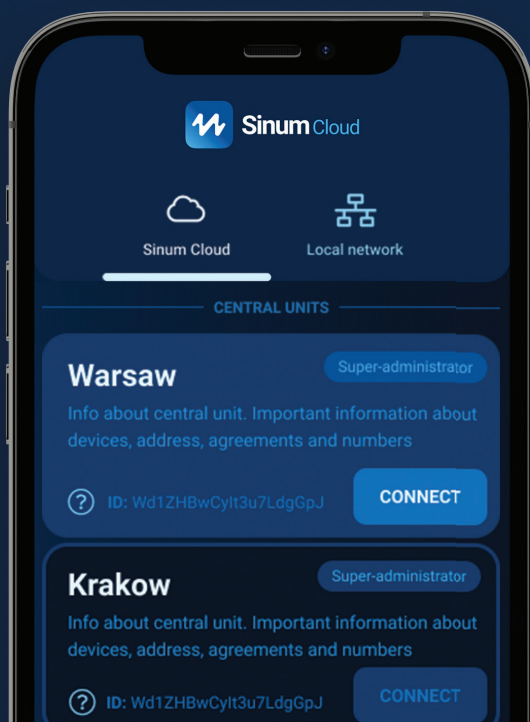
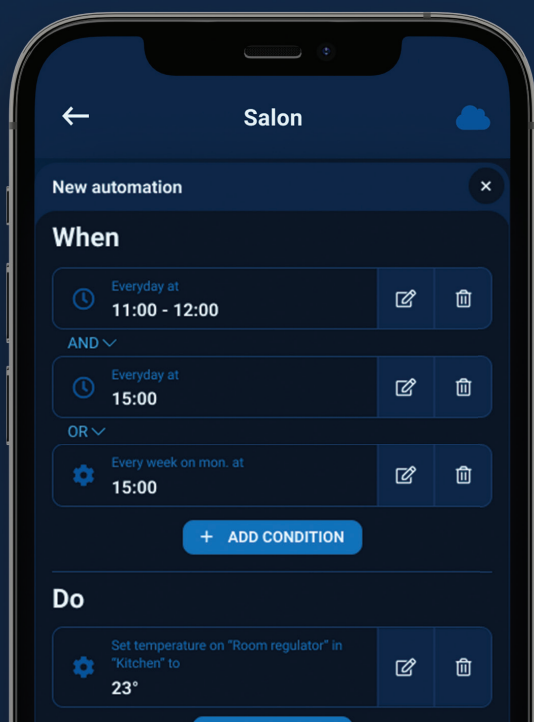
Create complex scenes and activate them with one click. Configure automations for your convenience.

Use a simple automation configurator and let the system work for you.

Cloud access

Manage one or more homes from anywhere with **Sinum**. Grant users permissions, collect statistics, run scenes and control access. Keep an eye on everything - all you need is Internet access.

Access your home from anywhere in the world.





Sinum Central unit



Sinum central unit



EH-01



EH-01 Lite



EH-02

EH-01, EH-01 Lite, EH-02

Sinum central unit

Create your dream smart home with the **Sinum** central unit.

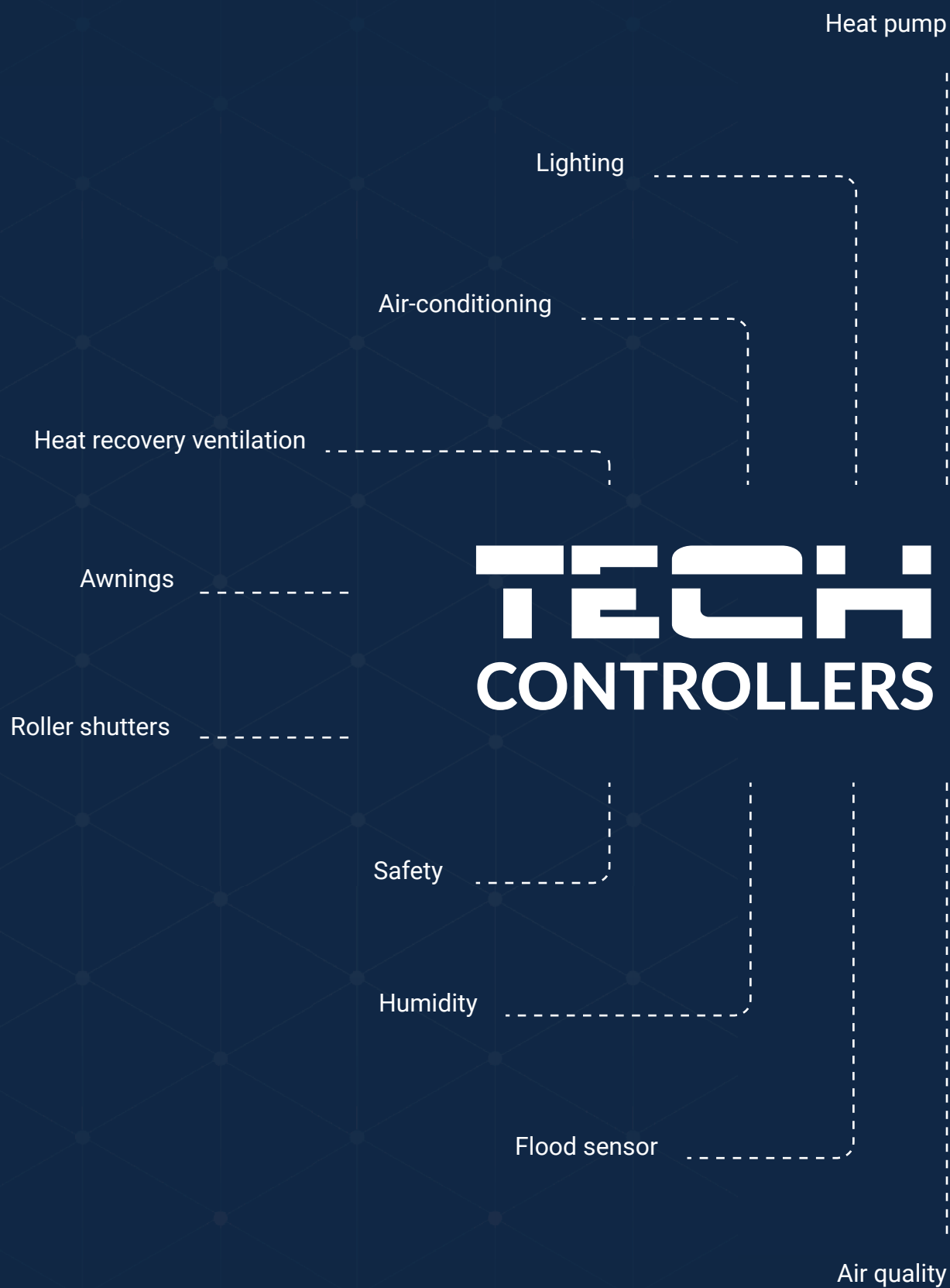
The Sinum central unit collects and processes information from external devices and executive modules, allowing you to monitor and control their operation both within your home network and via CLOUD access. The central unit also enables automation based on connected devices and the data they collect. You can create scenes and schedules as well. Sinum ensures the comfort and safety of your entire family 24/7.

Communication between devices is wireless. The **EH-01** model features 4 RS ports for communication with devices from **TECH Controllers**, while the **EH-01 Lite and EH-02** model has only 1 port. These ports enable communication with systems like controllers, heat recovery units, and heat pumps.

Thanks to its Ethernet port or WiFi connection, the **Sinum** central unit can be connected to the internet, allowing you to manage your entire home from a smartphone, tablet, or computer, no matter where you are in the world. If the internet is unavailable, your smart home will continue to operate and monitor your needs, as the Sinum central unit works on a local LAN network.

The **Sinum** central unit **EH-01 and EH-02** includes 1 MODBUS RTU/TCP input (not available in the **EH-01 Lite**) for controlling external devices, 1 Sinum SBUS input for wired Sinum devices, 2 USB ports (1 USB port in the **EH-01 Lite**), and a microSD card slot. These features let you save statistics and download device operation logs.

On top of the central unit, indicator LEDs display the current operating status, allowing you to check the central unit's condition and network/cloud connection status at a glance.



LED lighting

Temperature

RGB LED

Pellet boiler

 **Sinum**

Curtains

Gate

Sprinkler

Motion sensor

Smoke sensor

Opening sensor

Configure your system

DOUBLE



Integrated glass switches,
mountable in a double electrical box (60mm)

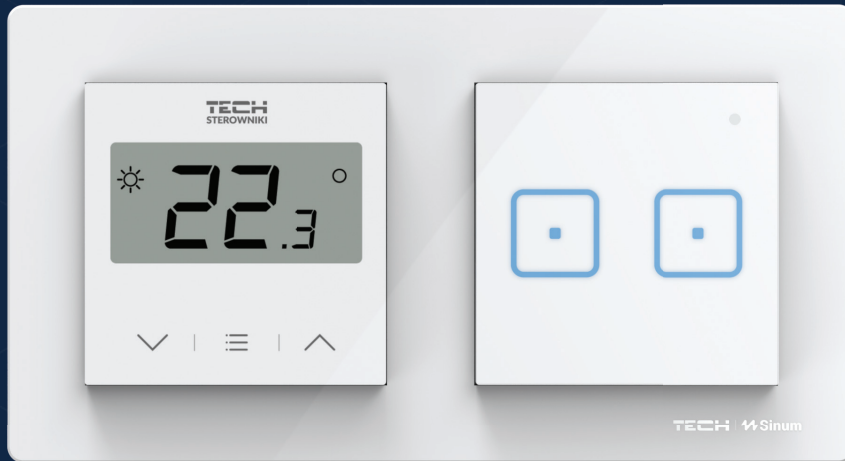
SINGLE



Glass switches mountable
in a 60mm electrical box

Sinum suited to you

FRAME



Frame-mountable devices
(mountable in a 60mm electrical box)

RELAYS



Monostable switches combined
with system relay modules

Heating

Give your family the blissful comfort of sleep, rest and fun. Save money by boosting your heating capacity by up to 20%

Do you want to set the same temperature throughout your home, or maybe increase it only in the children's room? Just a moment! What is more, if you open the windows, the system will turn off the heating and turn it on again after airing is over so as not to lose heat energy.

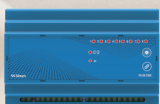
Temperature adjusted to individual needs of household members.
Ideal temperature at any time of the day and night.

Connect other heating management devices to the **Sinum** central unit.

If you already have some devices manufactured by TECH Controllers, some of them can be connected to the smart **Sinum** system.



Underfloor heating
controller PS-10 230



PS-08 230
relay module



EU-F-8z frame-mountable
room regulator



STT-869
wireless radiator actuator



Heating



WSR light switch + regulator

WZR roller shutter switch + regulator

The touch switches are equipped with sensor fields. They allow you to control lighting or roller shutters via 2 built-in voltage outputs. The remaining fields are virtual fields for managing scenes and actions or other devices.

Room regulators can be connected to floor temperature sensors in order to both control the room temperature and maintain the floor temperature at a pre-set level. You can also protect the floor against overheating. The devices also have a built-in air humidity sensor.

The switch has a built-in LED which informs about the device status (ON/OFF). You can change the backlight colour and brightness in the **Sinum** application.

Communication with the **Sinum** central unit is wireless (WSR-*, WZR-*) or wired (WSR-*m, WZR-*m) via the TECH SBUS. The devices are available in white and black colour.



SENSORS AND ROOM REGULATORS

temperature measurement and control

Divide your building into zones and manage temperatures according to your needs.

The multitude of devices gives you the freedom to choose between sensors and temperature regulators. Sensors may prove useful e.g. in a children's room because they do not offer the possibility of changing the room temperature.

Thanks to the use of regulators, on the other hand, you will be able to check the current temperature in a quick and easy way. If needed, you may also use them to adjust the pre-set temperature value.

Most room regulators offer the option of connecting a floor temperature sensor in order to both control the room temperature and maintain the floor temperature at a pre-set level. You can also protect the floor against overheating. The devices also have a built-in air humidity sensor.

Communication with the **Sinum** central unit is wireless (selected devices) or wired (selected devices) via the TECH SBUS. The devices are available in white and black colour.



F-8z, FR-S2, FC-S1p, FC-S1m

temperature measurement and control

The **EU-F-8z** or **FR-S2** room regulator may be connected to a floor temperature sensor in order to both control the room temperature and maintain the floor temperature at a pre-set level. You can also protect the floor against overheating. The device also has a built-in air humidity sensor. ****Temperature Sensors**** The **FC-S1p** (2-wire) and **FC-S1m** (Sinum SBUS) sensors are capable of measuring room temperature. Additionally, the FC-S1m also measures air humidity. These parameters can be freely used in various automations created in the **Sinum** smart home system.

Communication with the **Sinum** central unit is wireless (EU-F-8z) or wired (FR-S2, FC-S1m) via the TECH SBUS. The devices are available in white and black colour.



Lighting

How can I manage lighting?

With a wall switch

Just click the touch button to turn on/off the light in your room.

Using an automation

Integrate the lighting with the lowering of roller shutters, a motion sensor or other functionalities so that your home always provides maximum comfort.

Using a motion sensor

The lights will turn off when the sensor detects no movement in the room. They will turn on again when household members enter the room or start moving around the house.



CR-01
motion sensor



FR-02
double switch



BT-01
smart button



PPS-02
flush-mountable relay module



💡 Lighting



FS, FD

light switch

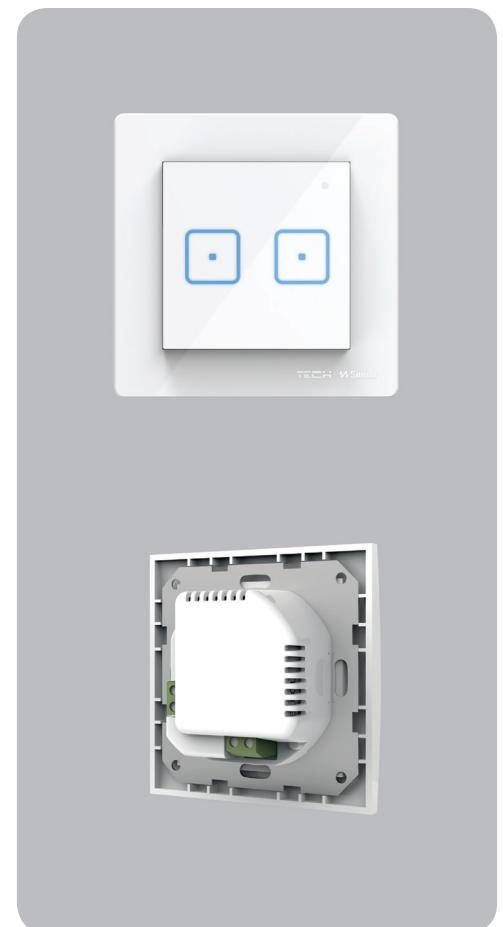
Add style and intelligence to your wall switches. The FRAME product range allows you to create device combinations tailored to your needs.

Depending on the version, touch switches are equipped with 1 or 2 relays and touch-sensitive areas, enabling control of lighting or other devices connected to the switch directly at the installation site.

After adding and configuring the **FS** switch in the Sinum control unit, remote control becomes possible, along with creating scenes and actions using the switch. The **FD-01** switch functions as a single-pole dimmer (on/off, dimming and brightening) for light bulbs dedicated to this type of operation.

The switch features a built-in **LED** indicator that shows the device status (on/off). The backlight color and brightness can be adjusted via the Sinum app.

Communication with the Sinum control unit is carried out wirelessly (**FS-01**, **FS-02**, **FD-01**) or via a wired connection (**FS-01m**, **FS-02m**) using the Sinum SBUS bus. The devices are available in white or black.



WS

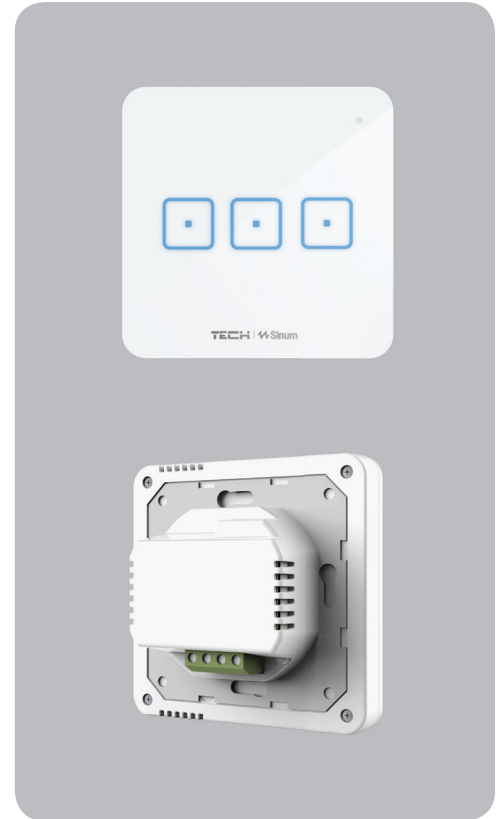
light switch

The touch switches, depending on the version, are equipped with 1-6 sensor fields to enable remote control of lighting via built-in voltage outputs (max 2) or via flush-mountable or DIN rail relay modules. Additional programmable sensor fields may be used to trigger a scene, automation or enable a device with the use of relay modules.

After adding and programming the **WS** switch in the **Sinum** central unit, it allows for remote control as well as adding scenes and actions.

The switch has a built-in LED indicating the device status (ON/OFF). The user may adjust the backlight colour and brightness using the **Sinum** application.

Communication with the **Sinum** central unit is wireless (WS-*) or wired (WS-*m) via the TECH SBUS. The devices are available in white and black colour.



WSS, WSG

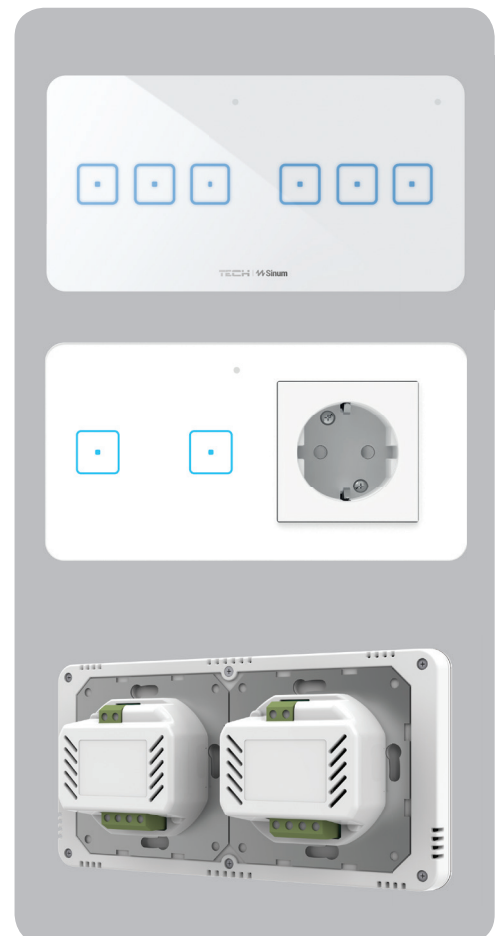
light switches

Touch switches are equipped with sensor fields that enable control of lighting or roller shutters via two built-in voltage outputs. The remaining fields serve as virtual controls for managing scenes, actions, or other devices.

Room thermostats offer the capability to connect floor temperature sensors, allowing control not only over the room temperature but also maintenance of the floor temperature at a preset level. Additionally, you can protect the floor from overheating. The devices also include a built-in air humidity sensor.

The switch features a built-in LED indicator showing device status (on/off). You can customize the backlight color and brightness through the Sinum app.

The WSG-02 combines a light switch (with two sensor fields) and a non-controllable power socket (WSG-02m) or a controllable socket (WSG-02). Communication with the Sinum central unit is wireless (WSS-*, WSG-*) or wired via the Sinum SBUS bus (WSS-*m, WSG-*m). The devices come in white and black.





Roller shutters

Let yourself be helped out all year round.

All roller shutters with one button

Raise and lower all the roller shutters in your house when you wake up or when it is getting dark outside.

In particular rooms

Control the roller shutters in particular rooms and adjust their work to your family daily routine.

When you are at work or on holiday

While you are away, the roller shutters will mimic your presence by opening and closing at certain times.



CR-01
motion sensor



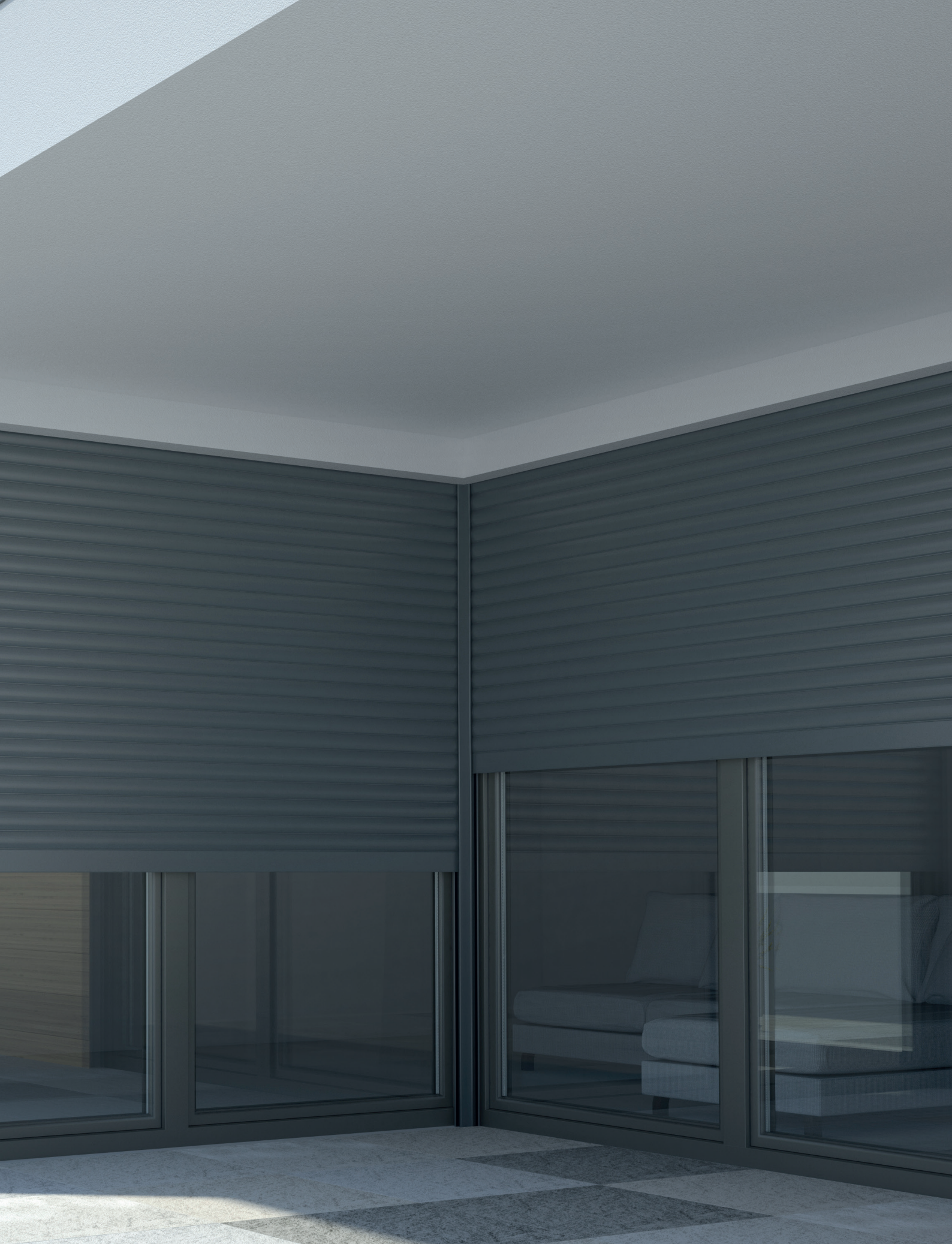
FZ-02
roller shutter switch



PSZ-02
double relay module



PPZ-02
flush-mountable relay module



Roller shutters



FZ

roller shutter switch

Make your wall switches look stylish and smart. Replace your old switches with the ones from the **FRAME** series in order to control the roller shutters connected to your **Sinum** smart home system. The series allows you to create a combination of devices tailored to your needs.

The touch switches are equipped with 2 relays and sensor fields to enable remote control of the roller shutters connected to the switch.

After adding and programming the **FS-02** switch in the **Sinum** central unit, it allows for remote control as well as adding scenes and actions.

The switch has a built-in LED indicating the device status (ON/OFF). The user may adjust the backlight colour and brightness using the **Sinum** application.

Communication with the **Sinum** central unit is wireless (FZ-02) or wired (FZ-02m) via the TECH SBUS. The devices are available in white and black colour.



WZ

roller shutter switch

The **SINGLE** series glass switches allow you to control the roller shutters connected to your **Sinum** smart home system.

The touch switches are equipped with 2 sensor fields to enable remote control of the roller shutters with the use of built-in voltage outputs.

After adding and programming the **WZ** switch in the **Sinum** central unit, it allows for remote control as well as adding scenes and actions.

The switch has a built-in LED indicating the device status (ON/OFF). The user may adjust the backlight colour and brightness using the **Sinum** application.

Communication with the **Sinum** central unit is wireless (WZ-02) or wired (WZ-02m) via the TECH SBUS. The devices are available in white and black colour.



WSZ

roller shutter switch

The touch switches are equipped with sensor fields. They allow you to control lighting or roller shutters via 2 built-in voltage outputs. The remaining fields are virtual fields for managing scenes and actions or other devices.

Room regulators can be connected to floor temperature sensors in order to both control the room temperature and maintain the floor temperature at a pre-set level. You can also protect the floor against overheating. The devices also have a built-in air humidity sensor.

The switch has a built-in LED which informs about the device status (ON/OFF). You can adjust the backlight colour and brightness in the **Sinum** application.

Communication with the **Sinum** central unit is wireless (WSZ-*) or wired (WSZ-*m) via the TECH SBUS. The devices are available in white and black colour.



≡ Safety

What functions are at my disposal?

Smoke-free air

When smoke is detected in the house, the system will automatically raise the roller shutters and turn off heat recovery ventilation.

Protection against flooding

In case of flooding, the sensor will send a signal and the relay will close the electric water valve. Thanks to this, you can avoid flooding, mess and costs related to removing the effects of a breakdown.

One configuration to let you gain peace of mind

Secure your house and make your family safe while you are sleeping, working or relaxing on holiday. While you are away, the roller shutters will mimic your presence by opening and closing at certain times.



CR-01
motion sensor



CZ-01
flood sensor



CJP-01
air quality sensor



CD-01
smoke sensor



COB-01

occupancy sensor

The COB-01 presence sensor is a microwave detection device capable of sensing even very subtle movements, such as chest movements caused by breathing. It is ideal for applications requiring not only motion detection but also presence monitoring, for example in alarm systems or automatic lighting control. The sensor features high sensitivity and, after movement ceases within the detection zone, switches off the connected device after a user-defined delay. Communication with the Sinum central unit is available either wired (COB-01m) via the Sinum SBUS bus or wirelessly (COB-01).



CR-01

motion, light, temperature and humidity sensor

The **CR-01** motion sensor is a device which enables the user to control motion, light intensity, temperature and the air humidity level in the room. Each of these parameters can be used while creating scenes and automations. Use the motion sensor for switching on the light and the light sensor for controlling outdoor lighting or roller shutters. The temperature sensor will help maintain ideal temperature in a given room.

The device communicates with the **Sinum** central unit wirelessly. As it is battery-powered, the device installation is simple and non-invasive.



CJP-01

air quality sensor

The device monitors the concentration of particulate matter contained in the air in the room where it is located.

When the critical values are exceeded, it sends information. The large color display shows the air parameters on an ongoing basis. In addition, it displays the current temperature and air humidity from the sensor included in the set. Ensure the right air quality by combining the CJP-01 sensor with recuperation system using the **Sinum** control unit.

Communication with the **Sinum** central unit is wireless.



CZ-01

flood sensor

Protect your home against flooding with a **CZ-01** flood sensor. The sensor is placed on the floor and in the event of flooding it sends a signal to the main module. You can put it directly on the surface as well as use the **CZS-01** probe to detect room flooding. A flooding signal may be programmed to trigger an automation which will cause the water valve to close, preventing your house from further damage.

The device communicates with the **Sinum** central unit wirelessly.



C02

carbon dioxide sensor

The device monitors **C02** levels in the air within the room where it is located and displays the current concentration on its screen. Using automation, you can, for example, set the ventilation system connected to the **Sinum** central unit to increase airflow when a certain **C02** threshold is exceeded. Additionally, it can send a notification to your phone, reminding you to ventilate the room.

Communication with the Sinum central unit is wireless.



CD-01

smoke sensor

Feel safe with a **CD-01** smoke sensor. The device is equipped with a sensor that enables early detection of smoke. Detecting smoke may be programmed to trigger the siren informing your about the danger.

The device communicates with the **Sinum** central unit wirelessly.



Accessories and additional devices



Complementary devices

In order for the light or the heating system to be switched on/off, additional devices are necessary to perform these actions. This group includes actuators and executive modules mounted in electrical boxes and on DIN rails.

Accessories

In order for the heating to turn off while you airing out your house, you need a window sensor. The button will allow you to control selected devices from anywhere in your home.



C-2n
opening sensor



PS-08 230V
relay module



BT-01
button



Floor and radiator
actuators





CP-04Cm

wired control panel

The CP-04 multifunctional control panel is a versatile device for the Sinum system. It allows you to display the current weather forecast, check the temperature in the room where it is installed (with the option to connect both an air temperature sensor and a floor temperature sensor), and create shortcuts to your favourite scenes. The panel can also function as a switch by controlling any relay installed in the Sinum system. As a result, it combines the functions of a weather station, temperature controller, information panel, and switch. All functions are operated via a 4-inch colour touch display, which can display up to five screens plus a dedicated shortcuts screen. Communication with the Sinum central unit is available either via the Sinum SBUS bus or wirelessly via Wi-Fi. The device is supplied with both white and black frames as standard. Additional coloured frames are available to order with an extended lead time.



Weather screen

Current weather forecast with the current air temperature displayed, taken from the weather service or any temperature sensor from the Sinum system.



Temperature controller screen

Current room temperature and floor temperature. Possibility to change the set temperature parameters.

Sensor screen

Ability to display parameters of any sensors installed in the Sinum system. Current preview of parameters without the possibility of changes.

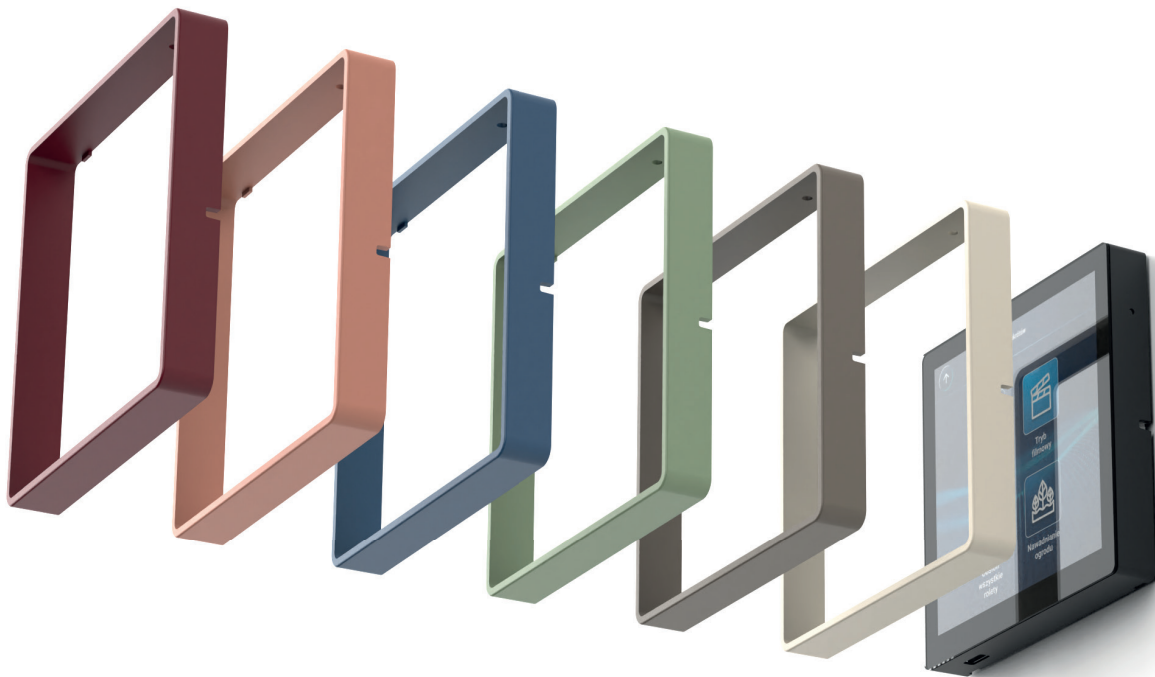


Screen of scenes and switches

Possibility to run selected scenes and turn devices on and off from the control panel. CP-04m can replace traditional switches.



Choose the perfect colour



We offer a carefully selected RAL colour palette, allowing you to match the frame perfectly to any interior and style. Choose from subtle beige shades, trendy greens, elegant navy blues, and deep reds. Each colour has been given a distinctive name that reflects its character, making it easier for you to find the perfect match:

	Ivory (RAL 1013) – light, delicate and timeless
	Warm Cashmere (RAL 7032) – a harmonious beige with a soft finish
	Grey Beige (RAL 1019) – a versatile, natural shade
	Warm Graphite (RAL 7006) – elegant and distinctive
	Pistachio (RAL 6019) – fresh with a subtle pastel tone
	Sage (RAL 6021) – a green shade with a soft, natural character
	Navy Blue (RAL 5000) – a classic, deep shade of blue
	Muted Peach (RAL 3012) – a warm, understated pink
	Emerald (RAL 6004) – a deep, jewel-like green
	Dark Sage (RAL 6011) – an elegant, muted green
	Burgundy (RAL 3004) – a deep, classic red
	Wine (RAL 4004) – an intense, rich burgundy shade



CP-04 Slim

Slim multifunctional control panel

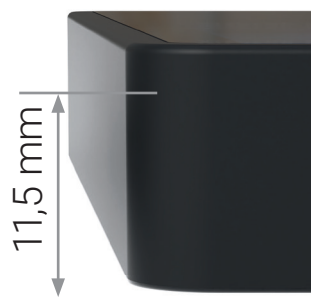
The modern 4-inch touch panel is an intuitive control centre for smart homes and building automation systems. It allows you to configure up to six fully customisable screens, tailored to the user's needs and the function of each room. Combining an elegant, ultra-slim design with quick access to the system's key features, it offers all the functionality of the CP-04 control panel. Thanks to its slim profile of just 7 mm, the CP-04 Slim does not support interchangeable coloured frames. Communication with the Sinum central unit is available either via the Sinum SBUS bus or wirelessly via Wi-Fi.



Dedykowana puszka elektryczna w zestawie.



CP-04SLIM



CP-04



CP-04S

4-inch multifunctional control panel with switches



CP-04S

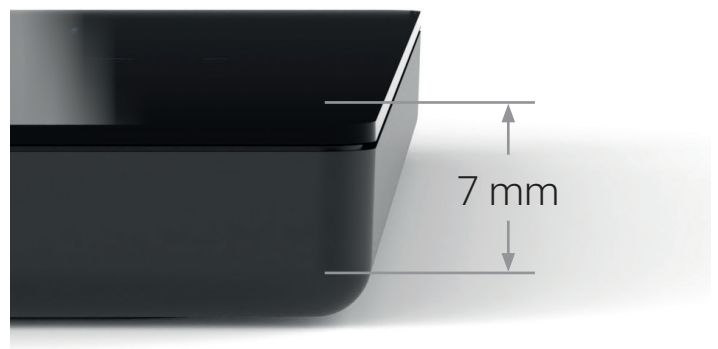
Multifunctional control panel with 4 switches

The modern 4-inch touch panel is an intuitive control centre for smart homes and building automation systems. Equipped with a touchscreen and four programmable buttons, it provides quick and convenient access to the most frequently used functions. It allows you to configure up to six fully customisable screens, tailored to the user's needs and the function of each room. Combining elegant design with maximum functionality, it is the perfect solution for everyday control of your smart home.

Features:

- all functions of the CP-04 control panel
- available in portrait or landscape orientation
- up to 4 functions can be assigned to each button
- four built-in relays for controlling devices such as lighting
- custom button personalisation available (extended lead time and individual quotation)

Communication with the Sinum central unit is available either via the Sinum SBUS bus or wirelessly via Wi-Fi.





Sinum TAB-11

Tablet 11"

Sinum TAB-11

tablet 11"

The modern 11-inch IPS tablet is a versatile device designed for work, multimedia, and everyday use. Powered by the high-performance MediaTek Helio G100 processor, generous memory, and a smooth 90 Hz display, it delivers fast and responsive performance for all your applications. Its slim design combines a modern look with outstanding functionality.

Key features:

- 11-inch IPS TFT display (1920 × 1200, 90 Hz, 16.7 million colours)
- MediaTek Helio G100 processor (up to 2.2 GHz)
- 48 GB RAM (8 GB physical RAM + 40 GB memory expansion)
- 256 GB internal storage with support for microSD cards up to 2 TB
- 8000 mAh battery with 18 W fast charging (USB-C)
- Cameras: 13 MP rear, 5 MP front
- Connectivity: Wi-Fi 2.4/5 GHz, Bluetooth 5.2, 4G LTE, GPS

FT-02 / FT-04

Rotating frame for the Sinum TAB-11 tablet

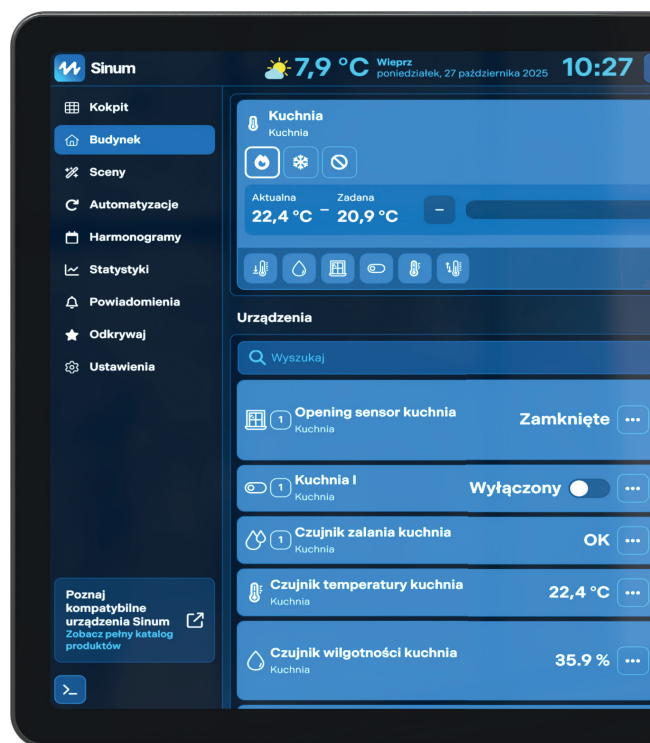
The elegant rotating frame for the Sinum TAB-11 is designed for installation in a 60 mm electrical back box. Its discreet design allows the tablet to blend seamlessly into the wall, creating a modern and uncluttered interior. The precision rotation mechanism enables smooth switching between portrait and landscape orientation, adapting the device to the user's current needs. Functionality and elegant design combined in a single solution.

The integrated charger provides continuous power to the tablet without the need for visible cables, enhancing both aesthetics and user convenience.

Three frame versions are available:

- FT-02 – without integrated buttons
- FT-04W – with 4 virtual buttons, allowing custom actions to be assigned to each button
- FT-04S – with 4 touch buttons and integrated relays, allowing custom actions to be assigned to each button and enabling direct control of devices such as lighting

In the FT-04W and FT-04S versions, communication with the Sinum central unit is carried out wirelessly via WTP TECH.



Accessories and additional devices

KW, KM

input card, MODBUS converters

Expanding the Sinum System with Additional Inputs and Outputs. The Sinum system can be expanded with additional inputs and outputs, including binary inputs, voltage-free or voltage contacts, NTC sensor inputs, and 0–10 V outputs.

Expansion cards such as **KW-03m**, **KW-04**, **KW-10m**, **KW-12m**, **KW-12-2m**, and **KW-15m** differ in the number and types of inputs as well as their connection method to the Sinum central unit. These expansion cards enable the creation of advanced Sinum system functionalities by integrating various types of input and output devices. The **KM-DALI** converter is used for communication with DALI devices, while the **KM-OT** converter is designed for communication with OpenTherm devices.



RC-05

wireless remote control with a display

Wireless remote control **RC-05** is a device that, once connected to the Sinum central unit, can be programmed to trigger any scenes, for example, opening or closing all roller shutters or opening/closing the gate. It can also be used to control devices communicating via the HTTP protocol, such as playing your favorite music. It has 5 programmable buttons available. Additionally, it features a numeric display showing up to 20 channels. Each channel can have its own functions. Communication with the Sinum central unit is wireless.



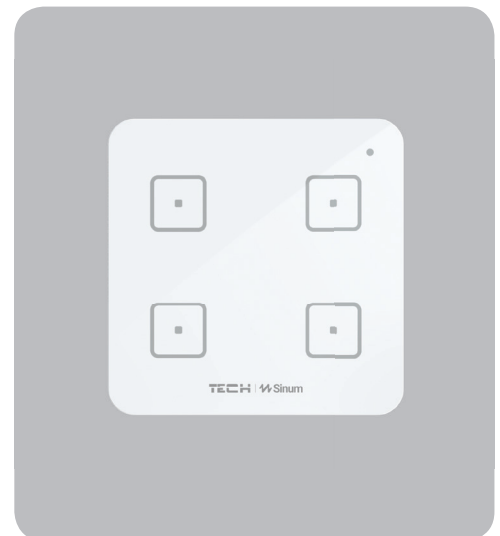
WP-04

programmable switch

The **WP-04** quadruple programmable switch is a wall-mountable device. It is equipped with four touch sensor fields, each of which may be programmed to operate another device, e.g. for switching the lights on/off or triggering a particular scene.

For users' convenience, the device is equipped with a mounting hook which can be attached to a 60mm electrical box or directly to the wall.

The device communicates with the **Sinum** central unit wirelessly. The device is available in white and black colour.



Accessories and additional devices

BT-01

button

The **BT-01** wireless button may be used e.g. for turning off all the lights in the house when you leave or when you go to sleep. A pre-set number of presses allows you to trigger a particular scene or automation. It can serve to turn the lights on or off, control roller shutters or any device or group of devices connected to the **Sinum** system.

The **BT-01** button is a wireless device which can be used anywhere in your house.



EU-C-2n

opening sensor

The **EU-C-2n** wireless opening sensor is a device which informs the system if a given window is open. This information may be used for heating control - turning off the heating while airing out the rooms. The sensor may be installed both on a window and on the door and it may be used in automations or scenes.

The device communicates with the **Sinum** central unit wirelessly. The device is available in 4 colours: white, golden oak, anthracite and brown.



EX

extender

With the extender, you can expand the operating range of your wireless or wired system (depending on the device version).

The extender connects to Sinum wireless system devices (**EX-G1**, **EX-S1**) or wired devices (**EX-S1m**, **EX-MODBUS**, **EX-RS**) and, via Wi-Fi or LAN (depending on the device version), transmits data to the Sinum control unit.

The EX-S1 and EX-S1m extenders can be connected to a wired LAN network via an RJ45 port. Additionally, the **EX-G1** extender also functions as a 230V pass-through socket. The **EX-MODBUS** is used to transmit data from MODBUS devices via LAN or Wi-Fi. The **EX-RS** is used to transmit data from TECH RS devices via LAN or Wi-Fi.



Accessories and additional devices

MC

multi-sensor

The **MC-01** multisensor is a device that combines many functions. The sensor measures such parameters as:

- concentration of volatile organic particles
- air temperature
- air humidity
- atmospheric pressure

The **MC-02/MC-02m** multi-sensor is a device which combines many functions. It is a room regulator which may also measure and display such parameters as:

- CO₂ concentration
- atmospheric pressure
- current temperature
- current humidity
- air quality

Communication with the Sinum central unit is wireless (MC-01, MC-02) or wired (MC-02m) via the Sinum SBUS bus.



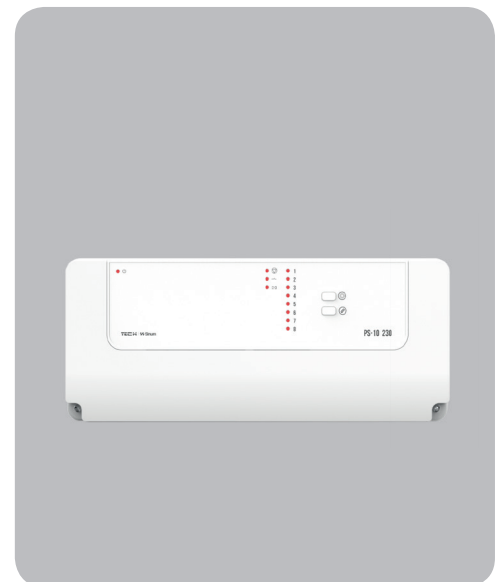
PS-10 230, PS-10m 230

thermostatic valve controller

SINUM dedicated controller for thermostatic valves for underfloor heating. It combines the simplicity and security of connection with the unlimited possibilities of the system. It has 8 voltage outputs to support up to 50 thermostatic actuators, 1 dedicated voltage output dedicated as pump and 1 voltage-free contact. Both are additionally equipped with 2x 2-state inputs.

Each output is programmable separately, so they can be used both for the operation of underfloor heating actuators and assigned to operate circulation pumps, and in the case of a voltage-free signal as a signal to the heating device.

Communication with the **Sinum** central unit is wireless (PS-10 230) or wired (PS-10m 230) via the TECH SBUS.



EHI-2

mixing valves module

The **EHI-2** mixing valve module allows you to extend the **Sinum** system to support 2 mixing valves.

The controller has voltage outputs to operate 2 mixing valves (open/close), 2 pumps dedicated to valves and 1 additional pump. In addition, it has a voltage-free contact and the ability to connect an RS regulator or two 2-state regulators. The device can also work independently without being connected to the **Sinum** central unit.

Communication with the **Sinum** central unit is done by wire via the TECH RS bus.



Accessories and additional devices

EHI-1m

expansion module for controlling one valve, designed to complement the EHI-2 controller.

Features:

- Control of three-way or four-way valves
- Pump operation control
- Return temperature protection
- Weather- and schedule-based control
- Integration with a room controller via RS communication or binary input
- Control of a voltage-free contact

Communication with the **EHI-2** controller is via a wired connection.



I-3 Sinum

installation controller

Control of 3 three- or four-way valves, pump operation control, return temperature protection, weather and weekly control, cooperation with a room regulator with RS or two-state communication, and control of voltage-free contact operation. Built-in OpenTherm. Control via the Sinum system. The controller comes with software dedicated to Sinum.

Communication with the Sinum central unit takes place wired via the TECH RS bus.



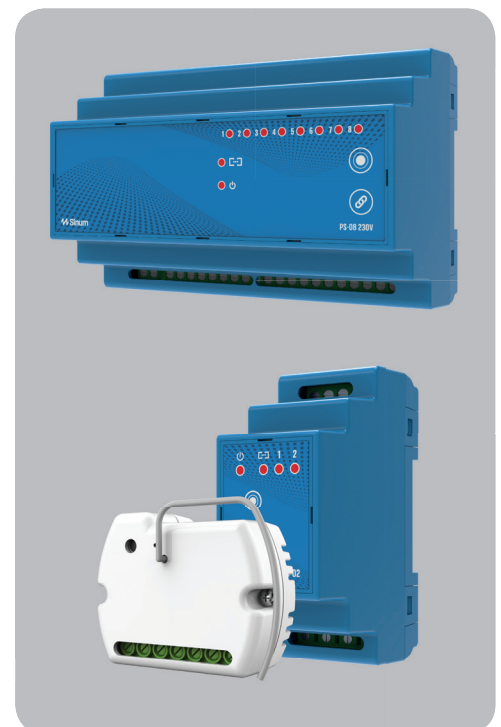
PPS, PPZ, PS

relays

Relays are actuating devices. We offer two types of relays: PPS-02, PPS-02m, PPZ-02, PPZ-02m, PPS-01 230 for mounting in a 60mm electrical box, or PS-02, PS-08, PS-08 230V, PSZ-02, PS-06m, PS-08m 230 for mounting on a DIN rail. Within the range of actuators, we distinguish relays for switching lights, heating, or other electrical devices and relays for controlling roller shutters.

Relays PPS-02, PPS-02m, PPZ-02, PPZ-02m, PS-02, and PSZ-02 can work with monostable switches, allowing you to use switches from any series as well as enjoy control from the application.

Communication with the Sinum central unit is wireless (PPS-, PPZ-, PS-*, PSZ-) or wired (PPS-*m, PS-*m, PSZ-*m) via the Sinum SBUS bus.



Accessories and additional devices

MB-04

gate module

The **MB-04** gate module is a device equipped with two voltage-free relays that allow you to control the operation of the gate motor. It is intended for mounting on a DIN rail. Communication with the **Sinum** central unit is wireless (MB-04) or wired (MB-04m) via the TECH SBUS.



STT-230

underfloor heating actuators

The smart home system allows you to control your underfloor heating. For controlling the heating system, apart from the device which will provide temperature readings, you will also need to use an appropriate actuator. We offer four types of actuators for underfloor heating:

- **STT-230/2**,
- **STT-230/2T**,
- **STT-230/2M**.

All of them are NC actuators (closed without current).

The underfloor heating actuators are powered by 230V and they can be directly connected to the **PS-10 230** or **PS-10m 230** module. The maximum number of actuators per one relay output is 5.



STT-869, G-X

radiator actuators

The Sinum system enables control of radiator heating using **STT-869** or **G-X** actuators. The installation is non-invasive — battery-powered actuators are screwed directly onto the valve (adapter kits RA-N and RTD-N included). The actuator motor allows smooth regulation of valve opening, defining minimum and maximum openings, and proportional control based on the SIGMA algorithm.

The radiator actuator communicates wirelessly with the Sinum central unit.



Accessories and additional devices

DIM

LED DIMMER

DIM-P4, DIM-P4m, DIM-S5, DIM-S5m LED light dimmers enable smooth change of the light intensity of LED strips in the range from 0 to 100% of the total lighting power. They support 4 LED strips (DIM-P4, DIM-P4m) or 5 strips (DIM-S5, DIM-S5m) simultaneously. Possible choice of light color in the range of 3000°K - 6000°K (from cold through neutral to warm). All this depending on the selected scene, automation or manually.

The module is powered by 12-24V DC. The load of each channel is 3A.

Communication with the **Sinum** central unit is wireless (DP-04 and DS-05) or wired (DP-04m and DS-05m) via the TECH SBUS protocol.



RGB

RGBW module

RGB modules are used to power and control the operation of RGB LED strips. Thanks to the use of the module, you will be able to manage both the color and intensity of light, as well as the temperature. All this depending on the selected scene, automation or manually.

The module is powered by 12-24V DC. The load of each channel is 3A.

Communication with the **Sinum** control panel is wireless (RGB-P4 and RGB-S5) or wired (RGB-S4m and RGB-S5m) via the TECH SBUS protocol.



EU-MW, EU-MWN

executive module

Thanks to output modules, you can control 230 V powered devices (MW-1 230, MWN-1 230) or send control signals to master devices, such as system controllers or heating appliance controllers (MW-1, MWN-1).

Communication with the Sinum central unit is carried out wirelessly.



Accessories and additional devices

FF-230, SG-230

socket

Sockets are actuating devices designed for mounting directly in an electrical box (**SG-230, SG-230s**) or in a frame (**FF-230, FF-230s**). We can remotely switch on and off devices connected directly to the socket, with a built-in current consumption measurement function (**FF-230, SG-230**). Sockets in versions **FF-230s** and **SG-230s** are non-controllable – they do not communicate with the central unit.

Communication of FF-230 and SG-230 with the Sinum central unit is wireless.



ZS-24/100, ZS-24/30

power supply 24V

DIN TH35 rail-mounted switching power supplies are used to power Sinum SBUS wired devices.



LE-3x230mb

3-phase bidirectional energy meter with MID certification

Real-time measurement of parameters such as voltage, current, active power, apparent power, power factor, and frequency. Measurements are performed on each phase. The device enables the display of energy consumption and production statistics in the Sinum application (when connected to an inverter) for household monitoring. Connection to the Sinum control unit is established via a wired MODBUS RTU protocol.

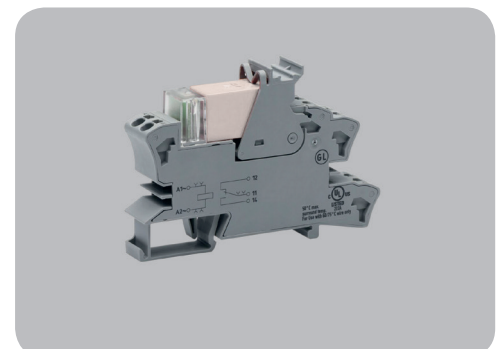


PK-230 / PK-24

a 230V or 24V relay on a socket for DIN rail mounting.

PK-230 AC relay, 16A load capacity

PK-24 DC relay, 16A load capacity



Accessories and additional devices

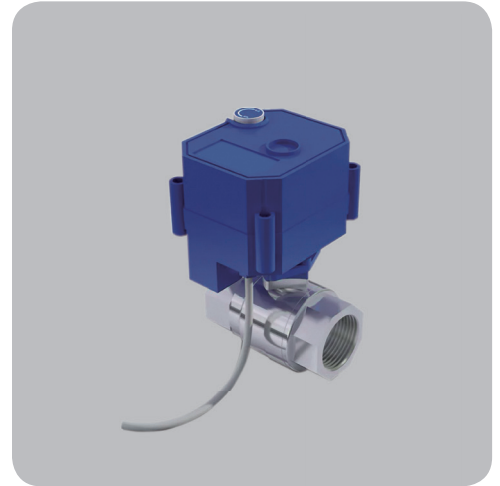
ZO-15 / ZO-20 / ZO-25

shut-off solenoid valve for water

The shut-off solenoid valve for water allows control of water flow in the system. Within the Sinum system, this enables the creation of automation to protect your home from flooding. Simply connect the valve to a relay, such as the PS-02, and use a CZ-01 flood sensor while configuring dependencies in the Sinum system.

The valves are available in three sizes:

- ZO-15 - 1/2" DN15,
- ZO-20 - 3/4" DN20,
- ZO-25 - 1" DN25.



LC-DN20 / LC-DN25 / LC-DN32

ultrasonic heat meter

Ultrasonic heat meter – Thermal energy flow meter DN20, DN25, or DN32, supplied with a temperature sensor tee fitting.



KB-SBUS

communication cable with power supply.

Dedicated communication cable with power supply:
2x0.75mm² CU + 2x2x0.5mm² CU.

The cable is available in 100m rolls or 300m spools.



Frames for Tablets



FT-02

Frame for the Sinum TAB-11 tablet – without buttons

FT-04S

Frame for the Sinum TAB-11 tablet – with virtual buttons



FT-04S

Frame for the Sinum TAB-11 tablet – with buttons and integrated relays

Flush-mounted glass frames dedicated to 10" tablets for Android and iOS systems.



FT-01a

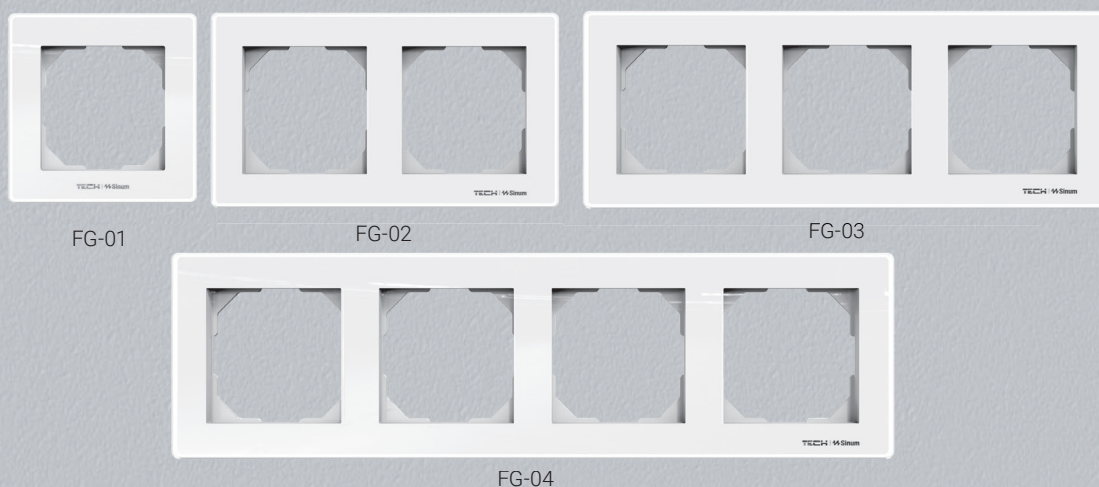
Frame for Samsung Galaxy A8 10.5" tablet (fits most tablets from 9" to 10.5").



FT-01i

Frame for Apple iPad 10.2" (8th generation).

Glass frames



FG-01, FG-02, FG-03, FG-04

glass frames

Glass frames to be used with switches and regulators from the **FRAME** series. The following versions of frames are available: **FG-01, FG-02, FG-03, FG-04**. They enable the user to install the devices in standard $\varnothing$ 60mm electrical boxes and system spacing, both horizontally and vertically.

Opening dimensions: 55mm x 55mm. Frames are also available in white or black color.

Communication protocols



TECH SBUS

TECH CONTROLLERS COMMUNICATION PROTOCOL

The **TECH SBUS** encrypted communication protocol enables connection of wired devices of the **Sinum** system to the central unit. It allows you to expand the functionality of the whole system with additional modules and devices. Connecting other devices makes it possible to use them in scenes and automations in order to take full advantage of the **Sinum** system.



TECH RS

TECH CONTROLLERS COMMUNICATION PROTOCOL

The **TECH RS** communication protocol allows up to 4 **TECH Controllers** devices to be connected to the **Sinum** central unit. These are such devices as underfloor heating controllers, heat recovery ventilation units, heat pumps or pellet boilers. Thanks to the integration, all settings and parameters may be found in one place, available for user control. Additionally, they can be used together with other devices to create scenes and automations. Compatible devices just need to be plugged into the **Sinum** central unit and they are ready to be used.



MODBUS RTU/TCP

OPEN COMMUNICATION PROTOCOL

It is an open Client-Server protocol which enables control of devices. Thanks to **MODBUS RTU/TCP RS-485 input** in the **Sinum** central unit, you can control any device connected to it. All you need to know to be able to control a device via the **Sinum** central unit are the right addresses and codes provided by the device manufacturer. You can display and adjust the parameters of the devices, and thanks to automations and scenes you can use them together with other devices.



HTTP

OPEN COMMUNICATION PROTOCOL

It is an **HTTP-based** communication protocol. More and more devices offer the option of remote control via the Internet. If the device manufacturer provides **HTTP API**, the device may be integrated into the **Sinum** system, enabling remote control and access to the device parameters. Additionally, by using automations and scenes, you can coordinate their operation with other devices connected to the **Sinum** central unit.



MQTT

OPEN COMMUNICATION PROTOCOL

A protocol for communicating with devices that do not require high bandwidth. This protocol is based on the transfer of messages between clients via a central server-broker. Through appropriate queries, the **Sinum** system can communicate with devices using this data transmission protocol.

Custom device



Create and manage as you like

Add a new device and control it easily by creating your own tile. Create and control your own audio player. Add a smart socket and manage it through the **Sinum** system!

A **custom device** allows you to create and combine the functions of different devices. We have an impact on the appearance, displayed content, we can also control individual functions of the new device.

Integration

Better together

Thanks to the use of open communication protocols and cooperation with leading companies in the heating and installation industry, the **Sinum** system enables communication and control with devices such as heat pumps (Modbus RTU/TCP), recuperators (Modbus RTU/TCP), air conditioners (Modbus RTU/TCP).

DEFRO
heating technology

Galmet

KOLTON

WANAS

Hotel Systems

With the Sinum system, we can integrate with reception systems, allowing you to manage rooms automatically. Heating in the room will turn on for the duration of the reservation and will automatically switch to energy-saving mode once the room is vacated. Managing a hotel or guesthouse has never been easier.

Integration with Inverters and Energy Meters

Through integration with inverters and energy meters, the Sinum system enables efficient monitoring and display of electricity production data. The integration of these systems allows users to continuously track and optimize the performance of their photovoltaic system. The list of devices we have already integrated with continues to grow.

Additionally, by utilizing APIs and communication protocols, we can integrate many more devices with **Sinum**, such as smart bulbs, door locks, alarm systems, and audio systems.

The list of devices we have already integrated with is constantly expanding and can be checked on our website or by scanning the QR code.

<https://www.techsterowniki.pl/sinum/integracja>

Thanks to the **Sinum** system, all these devices can be managed in one place, from a single application.



Energy management

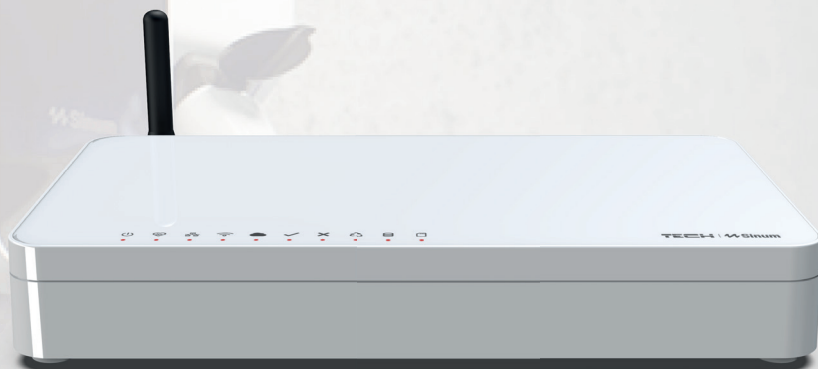
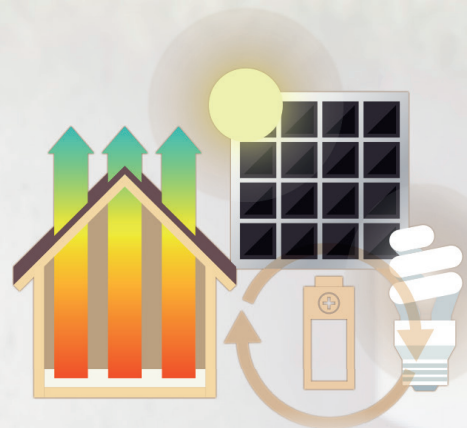
The growing popularity of renewable energy sources (RES), such as photovoltaic panels or heat pumps, makes it necessary to optimize the way energy is used in buildings. In response to these challenges, innovative solutions are appearing on the market, such as **HEMS** (Home Energy Management System), i.e. a home energy management system, and **EMS** (Energy Management System), which aims to effectively manage the entire range of energy.

What is HEMS?

HEMS - Home Energy Management System is a set of technologies and solutions aimed at optimizing energy consumption in households. HEMS allows you to monitor, control and automate various devices and systems in your home to increase energy efficiency. Examples of HEMS activities include harmonizing the operation of heating, ventilation and air conditioning systems, lighting management, monitoring energy consumption and, in some cases, integration with renewable energy systems, such as solar panels or wind micro-installations.

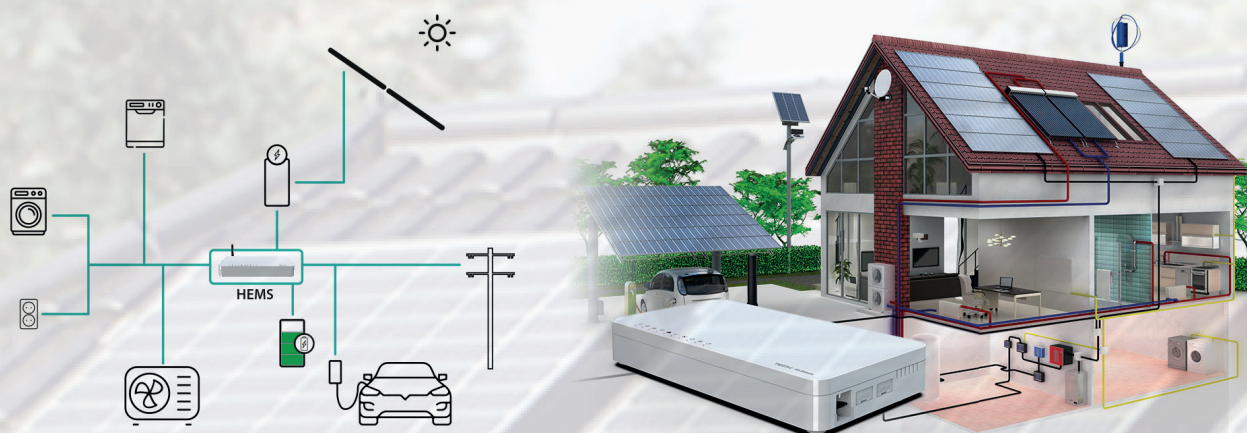
What is EMS?

EMS - Energy Management System focuses primarily on managing energy obtained from photovoltaic panels and regulating the flow of electricity between the installation, energy storage and current demand. This system can also work in coordination with the power grid, allowing excess energy to be fed back into the grid.



Energy management in Sinum

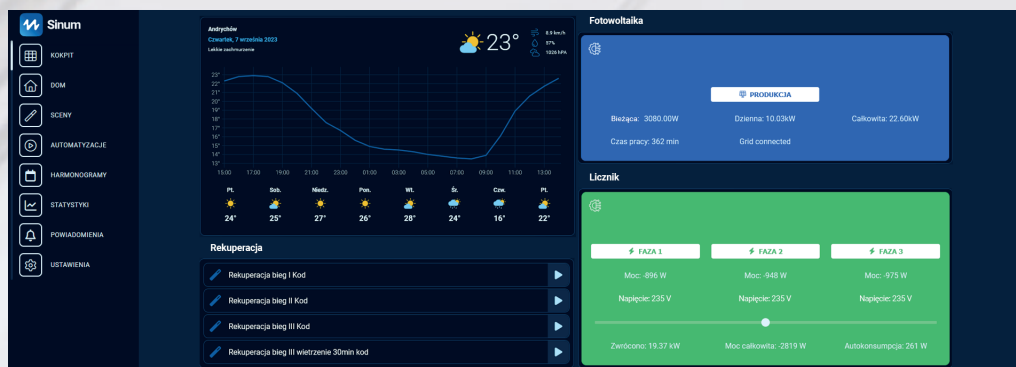
The **Sinum** system enables the integration and control of devices responsible for the production and consumption of electricity in the building, thanks to which it can monitor current needs and select the most economical solutions for its consumption. Thanks to the system, we can use the energy produced by photovoltaic systems and, during periods of overproduction, accumulate it in batteries and DHW tanks or through a heating device in heating or cooling systems.



What are the benefits of HEMS and EMS systems?

The **Sinum** system as a **HEMS/EMS** system brings numerous advantages, contributing to energy savings and increasing energy efficiency. Thanks to this solution, it becomes possible, among others:

- Optimizing energy consumption through continuous monitoring and ongoing management of its use.
- Effective management of the operation of photovoltaic installations and effective use of energy from renewable sources.
- Increasing the comfort and convenience of using buildings thanks to the automation of processes such as temperature regulation or lighting control.
- Reducing energy costs through better optimization of energy consumption and the use of available renewable sources.
- Reducing greenhouse gas emissions and supporting sustainable development through the active use of renewable energy.



Example application

The world of automation

Connect devices and coordinate their operation. Thanks to automations, the **Sinum** system may turn your devices on and off, send failure notifications and also take care of safety. All this in one place!

Data at your fingertips

Thanks to the **Sinum** system, you may access and adjust many parameters provided by your device. The data, in turn, allow you to tailor the system operation to your needs. Find out how simple it is - imagination is your only limit!



CR-01
motion sensor



PS-08 230V
relay module

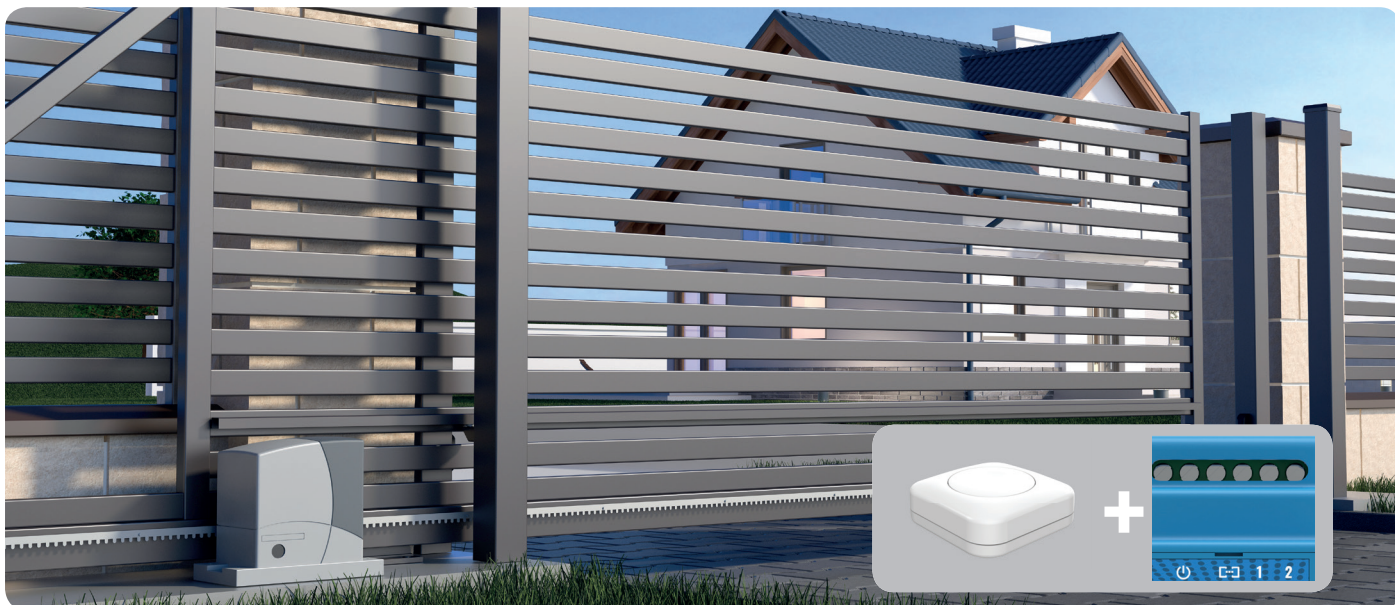


BT-01
button



PPS-02
relay

Entrance gate control



Using the programmable **BT-01** or **RC-05** button and the **MB-04** relay, you can control the opening and closing of the entrance gate, garage gate or gate. Just connect these devices to the **Sinum** control panel and assign the appropriate automations.

Protection against flooding



The CZ-01 flood sensor, together with the PPS-02 or PS-02 relay, allows you to control the electric valve ZO installed on the pipe supplying water to your house. After setting up automation, the system will close the valve and notify you in case of a leak. All of this is possible thanks to Sinum!

Automatic sprinkling system



The **PS-02** relay together with a soil moisture sensor (controlled via **MODBUS RTU/TCP** protocol) and appropriate automation will allow you to control the garden sprinkler. Just set the time and conditions, and the **Sinum** system will open the electric water valve and ensure proper hydration of your plants or lawn.

Automatic alarm arming



With the use of the **BT-01** button and the **PS-02** relay together with any lighting switch from the **FS, WS, WSS or WSR** series, you can switch off all the lights in your home and arm your home alarm system with one button. Just set up an automation - it's so simple!

Air quality automation



The **Sinum** system will allow you to take care of your home air quality. Thanks to the **MC-02** sensor, which monitors the air quality, and the possibility of connecting your heat recovery ventilation unit via **TECH RS** or **MODBUS RTU/TCP** protocol, the system may increase or decrease the ventilation rate to ensure appropriate air quality for you and your loved ones.

Lighting automation



With the use of the **CR-01** motion sensor and the **Sinum** system, the ambient light will be turned on at night when motion is detected, without waking other household members. Your children may safely get to the bathroom at night, and even when they forget to turn off the light - the system will do it automatically. All you need to do is use the **CR-01** sensor and the **WS-01** light switch together to set up an automation.

Air conditioning control



On hot days, let your air conditioning system work automatically. Thanks to the **Sinum** system together with the **EU-R-8pz PLUS** room regulator and an air conditioning unit with **MODBUS RTU/TCP**, you can maintain a steady home temperature even in summer. Your air conditioning unit cools the air only when needed.

Audio system control



Do you like listening to music? The **Sinum** system will play your favourite radio station or songs when you wake up in the morning or to greet you as soon as you come home after work. Just connect your sound system to the **Sinum** central unit via **HTTP** protocol. Additionally, you can use the **RC-05** programmable switch to control the device remotely.

Cooperation with installers and automation specialists

Take part in free training, master a specific skill pack, and offer high-end installation services to your customers!

Who are we looking for?



Installers



Automation specialists



Electronic engineers



Electrical engineers



Training & Special skill pack

We guarantee:

- a practical presentation of our systems, controllers and automation algorithms
- a step-by-step workshop course
- a certificate confirming participation in the training
- lunch and delicious coffee
- a small gift



Responsible partnership

We combine modern technology with innovation, and responsibility towards our customers, business partners and installers is the foundation of your company.

The synergy of these values means:

- respect in mutual relations
- a step-by-step workshop course
- clear principles
- professional support at every stage of cooperation



Profitable professional development

Home automation is no longer exclusive to a narrow group of people and it is gaining more and more popularity month by month. Moreover, not only the owners of single-family houses and apartments, but also developers decide to install such systems.

What does this mean for you?

- enriching your service offer with the installation of home automation systems
- adjusting your services to the market needs and satisfying the most demanding customers
- the prospect of multiple orders
- skills compatible with the development of the **Sinum** system
- a big advantage over the competition

Are you interested? Contact us.



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