TECH CONTROLLERS | ᴍ Sinum

Your home in tune with you.

🌡 **Heating**　💡 **Lighting**　🌬 **Safety and quality**　🪟 **Control of roller shutters and awnings**

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.

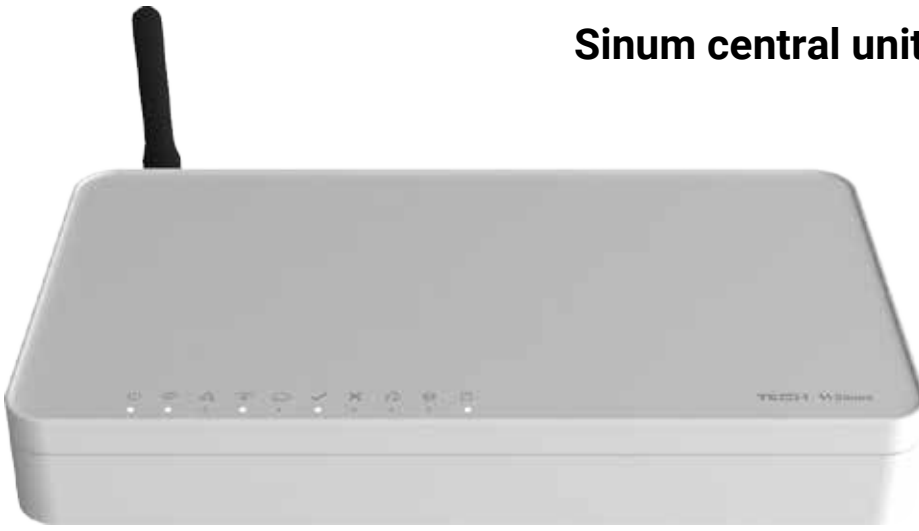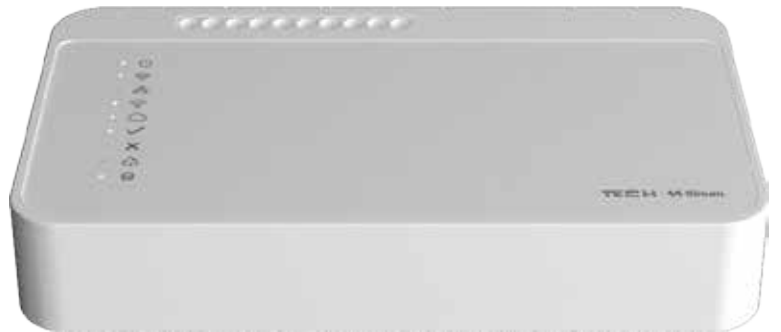Access your home from anywhere in the world.

SINUM Central unit

TECH RS | Modbus | TECH SBUS | HTTP | MQTT

Sinum central unit

EH-01

EH-01 Lite

EH-01, EH-01 Lite
Sinum central unit

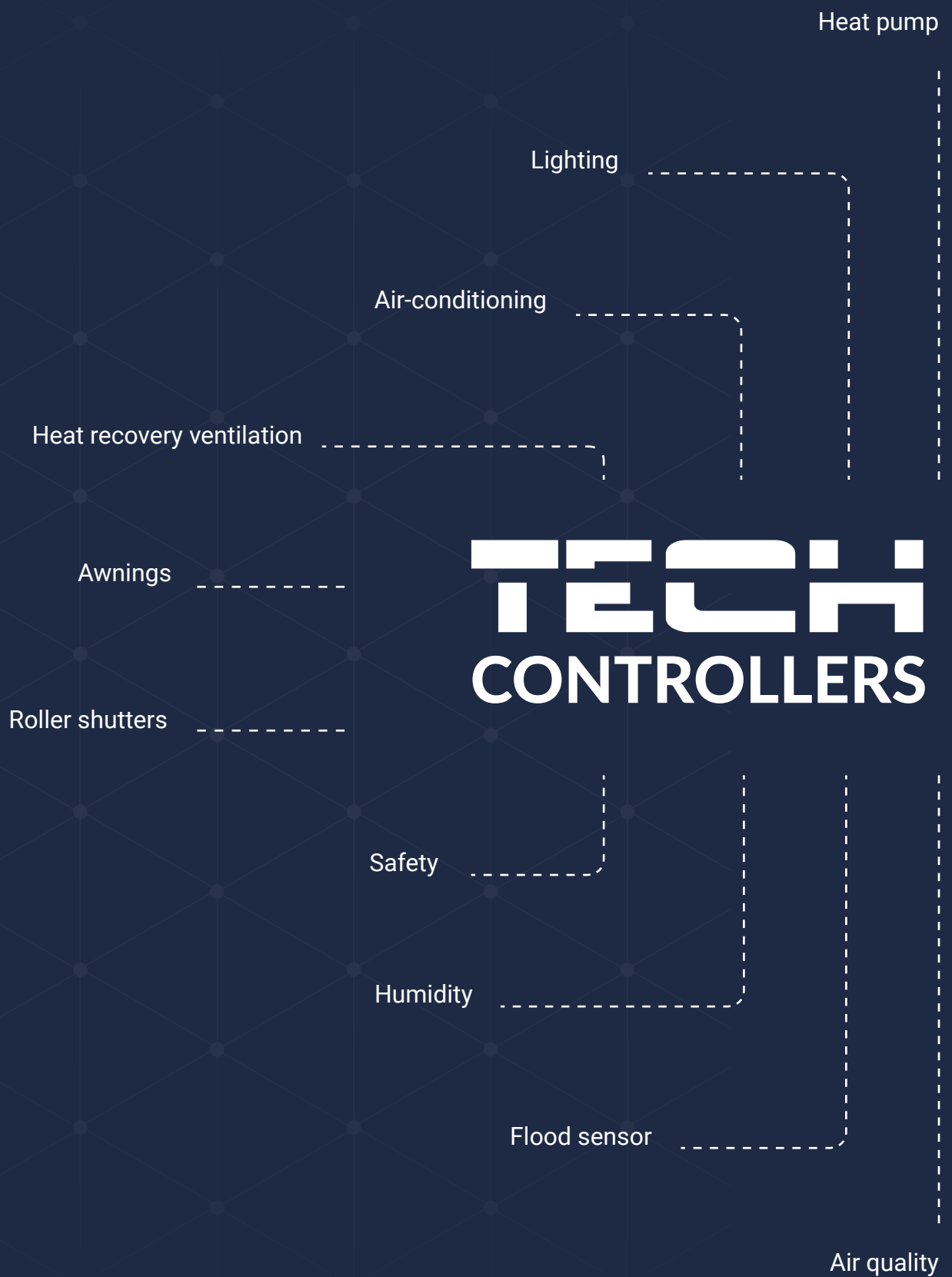Create your dream smart home with the **Sinum** central unit.

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 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 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.

Heat pump

Lighting

Air-conditioning

Heat recovery ventilation

Awnings

Roller shutters

TECH
CONTROLLERS

Safety

Humidity

Flood sensor

Air quality

LED lighting

Temperature

RGB LED

Pellet boiler

✳✳ Sinum

Curtains

Gate

Sprinkler

Motion sensor

Smoke sensor

Opening sensor

Configure your system

DOUBLE

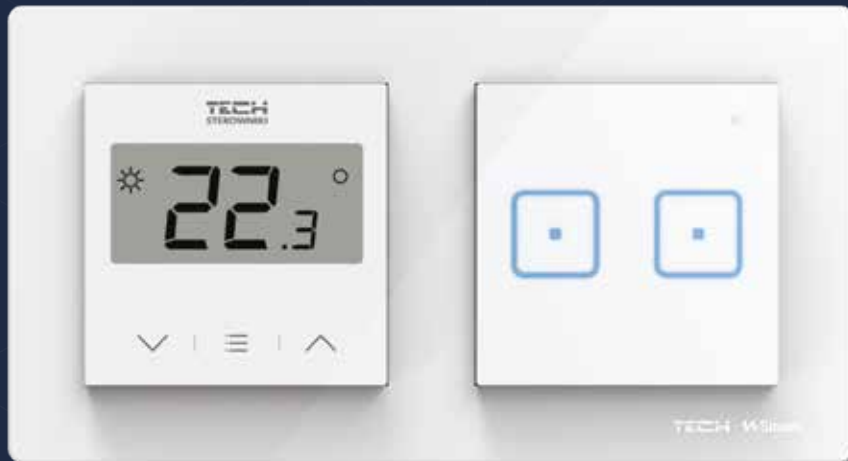Integrated glass switches,
mountable in a double electrical box (60mm)

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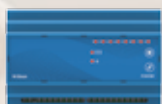
Temperature adjusted to individual needs of household members.
Ideal temperature at any time of the day and night.

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.
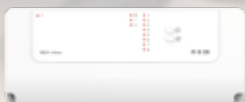
Underfloor heating
controller PS-10 230

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.

TECH CONTROLLERS | 〰 Sinum

SENSORS AND ROOM REGULATORS
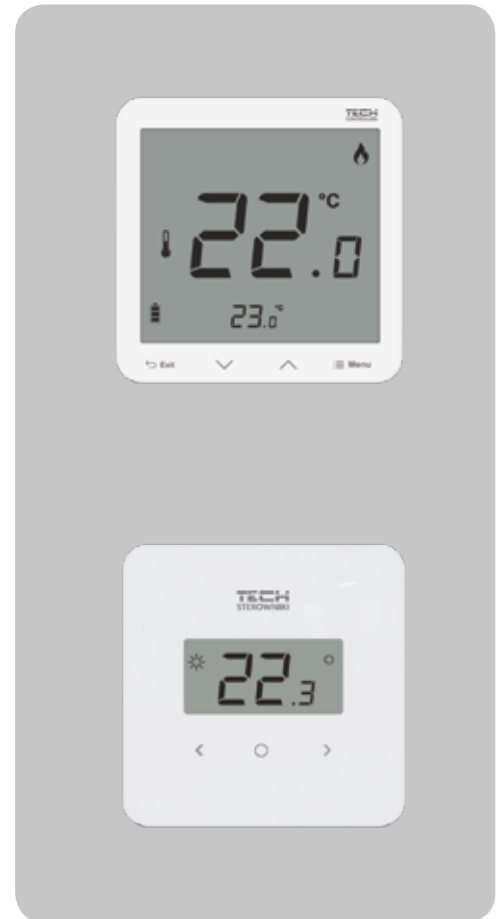temperature measurement and control

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
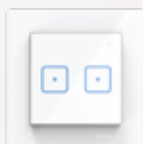
FR-02
double switch

BT-01
smart button

PPS-02
flush-mountable relay module

TECH CONTROLLERS | Sinum

FS
light switch

Make your wall switches look stylish and smart. The devices from the **FRAME** series allow you to create a combination of devices tailored to your needs.

The touch switches, depending on the version, are equipped with 1 or 2 relays and sensor fields to enable remote control of lighting or other device connected to the switch.

After adding and programming the FS 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 (FS-01, FS-02) or wired (FS-01m, FS-02m) via the TECH SBUS. The devices are available in white and black colour.

� Lighting

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
light switches

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 (WSS-*) or wired (WSS-*m) via the TECH SBUS. The devices are available in white and black colour.

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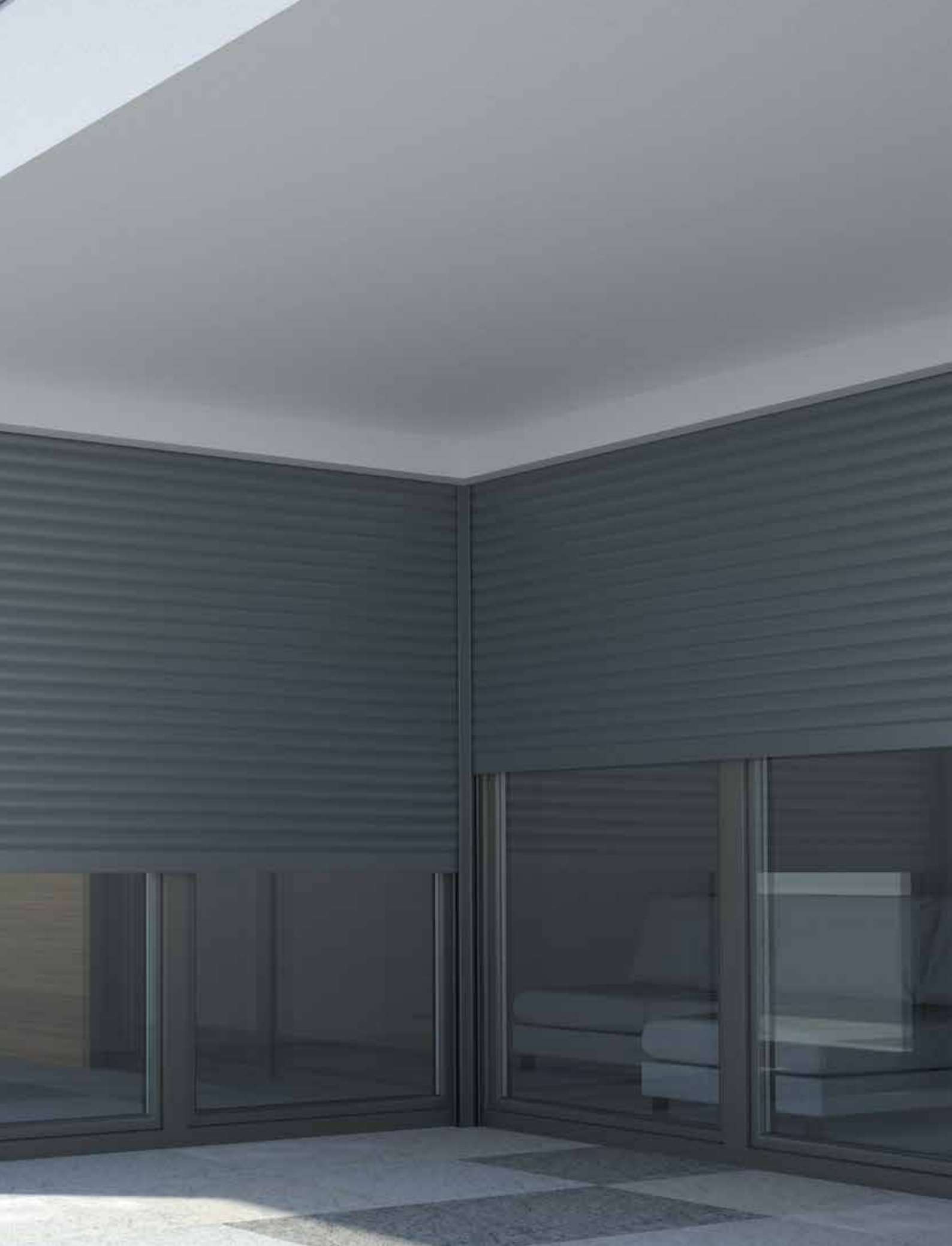While you are away, the roller shutters will mimic your presence by opening and closing at certain times.

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.

🪟 Roller shutters

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

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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.

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〰 Safety

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.

CO2
carbon dioxide sensor

The device monitors **CO2** 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 **CO2** 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-04m
wired control panel

    The **CP-04m** control panel serves as a multi-tasking device. Thanks to it, we can display the current weather forecast, check the temperature in the room where it is installed (possibility to connect an air temperature sensor and a floor temperature sensor), and set shortcuts for favorite scenes. The panel can also function as a switch (using any relay installed in the Sinum system). The panel therefore serves as a weather forecaster, temperature controller, information panel and switch. All this is controlled from a 4-inch color touch display that can display up to 5 screens and a shortcut screen.

    Communication with the **Sinum** control panel is wired via the TECH SBUS bus. The device is available in black colour.

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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.

Accessories and additional devices

KW
input card

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

Expansion cards like **KW-03m, KW-04, KW-10m, KW-12m**, and **KW-12-2m** differ in the number and type of inputs and the 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.

RC-07
wireless remote control

The **RC-07** wireless remote control is a device that, when connected to the **Sinum** central unit, Can be programmed to perform any scenes, e.g. opening or closing all roller shutters, or opening or closing the gate.

You can also use it to central units communicating over the HTTP protocol, turn on your favorite music, make, change it's volume. There are 7 programmable buttons.

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

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.
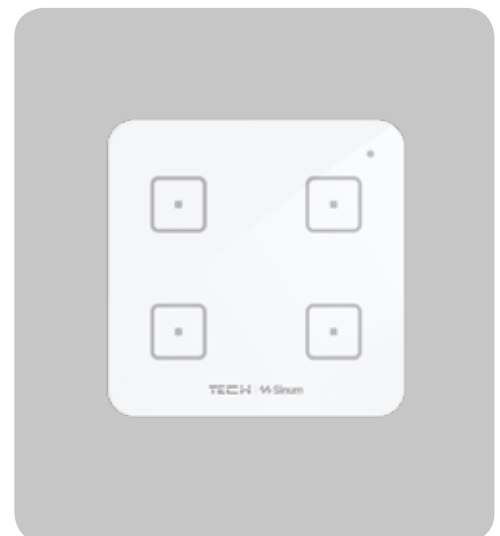
Accessories and additional devices

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 your 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

    Extend the Sinum system's range with an extender

    An extender allows you to increase the range of the **Sinum** system, whether wireless or wired (depending on the device version). The extender connects to **Sinum** system devices wirelessly (**EX-G1, EX-S1)** or via wired connections (**EX-S1m, EX-MODBUS**) and transmits data to the Sinum central unit via WiFi or LAN (depending on the device version).

    The **EX-S1** and **EX-S1m** extenders can connect to a wired LAN network using an RJ45 port. Additionally, the **EX-G1** extender also functions as a 230V pass-through socket. The **EX-MODBUS** extender is designed to transmit data from MODBUS devices via LAN or WiFi.

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:
- CO_2 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.
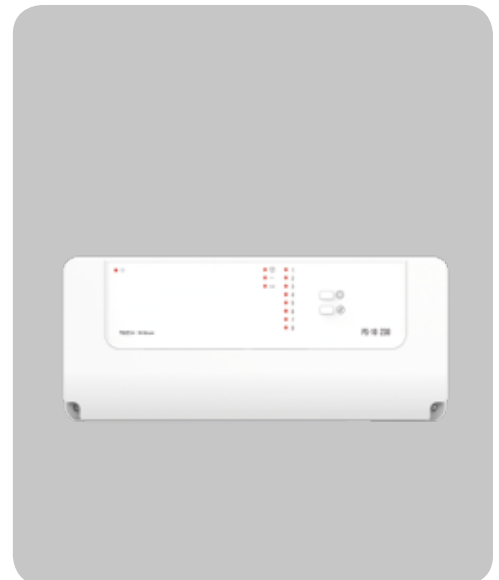
EHI-2
mixing valves module

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.

PPS, PPZ, PS

relays

Relays are executive devices. We have two types of relays on offer: **PPS-02, PPZ-02, PPS-01 230** relays mountable in a 60mm electrical box or **PS-02, PS-08, PS-08 230V, PSZ-02, PS-06m, PS-08m 230** relays mountable on a DIN rail. The range of executive devices includes relays for controlling the light, the heating or other electrical equipment as well as relays for controlling roller shutters.

The **PPS-02, PPZ-02, PS-02 i PSZ-02** relays can cooperate with monostable switches, thanks to which you can use a switch from any series and also enjoy application-based control.

Communication with the **Sinum** central unit is wireless (PPS-01 230, PPS-02, PPZ-02, PS-08, PS-08m 230V, PSZ-02) or wired (PS-02m, PSZ-02m, PS-06m, PS-08m 230) via the TECH SBUS.

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.

Accessories and additional devices

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 smart home system also allows you to control radiators. For controlling the heating, apart from the device which will provide temperature readings, you will also need to use an appropriate actuator. The **STT-869** or **GX** actuators may be used for controlling radiator valves.

The radiator actuators are battery-powered, which makes the installation completely non-invasive - it only involves screwing the actuator onto the radiator valve. The set includes adapters for the **RA-N** and **RTD-N** valves.

The actuator is equipped with a motor which makes it possible to stop in any position. As a result, the user may define the minimum and maximum valve opening as well as control the valve on the basis of the **SIGMA** algorithm.

Radiator heating zones may be successfully expanded to include the **EU-C-2n** opening sensors to make sure that the radiators and turned off when the windows are open.

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
executive module

Thanks to plug-in executive modules, you will be able to run devices powered by 230V (**EU-MW-1 230)** or feed signals to main devices, e.g. system controllers or heating device controllers (**EU-MW-1**).

The device communicates with the **Sinum** central unit wire-lessly.

It is intended to be plugged into a 230V socket.

Accessories and additional devices

FF-230, SG-230
socket

The socket is an executive device to be mounted directly in a electric box (**SG-230**) or in a frame (**FF-230**).

We can remotely turn on and off devices connected directly to the socket.

Communication 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.

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.

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
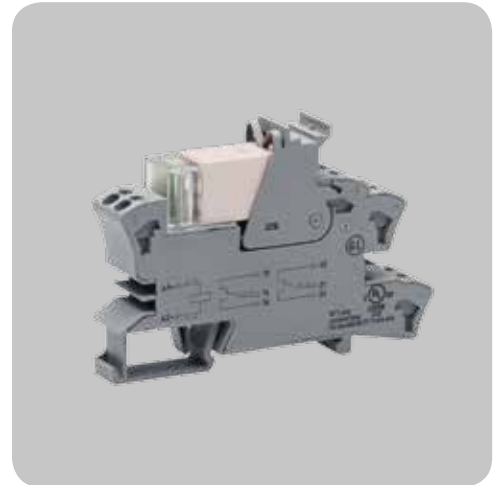
KB-SBUS
communication cable with power supply.

    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

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).

TECH CONTROLLERS | **Sinum**

Glass frames
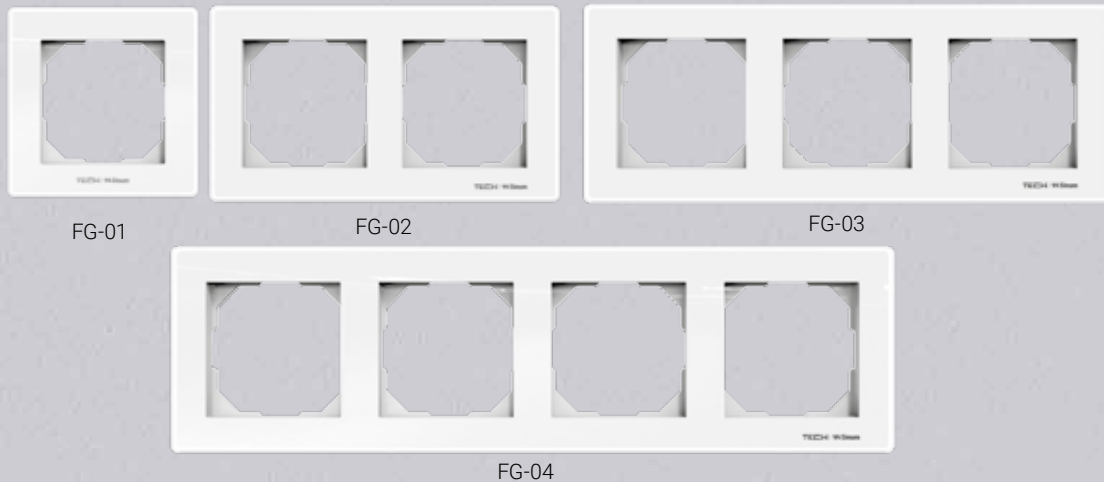
FG-01

FG-02

FG-03

FG-04

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 ø 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).

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-07** 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** relays enable you to control the electric valve installed on the water supply pipe. After setting up an automation, the system will close the valve when a leak is detected and notify you about the failure. All this 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!

TECH CONTROLLERS | Sinum

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-07** 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
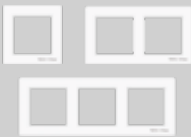
Are you interested? Contact us.

TECH CONTROLLERS | Sinum

Product overview

CENTRAL DEVICES			
	EH-01 SINUM CENTRAL DEVICE The EH-01 main unit is a device that collects and processes information from external devices and executive modules, enabling the user to view and change their operating status from the local network and through CLOUD access. The EH-01 main unit also allows you to create automations based on connected devices as well as on data collected from them. It is also possible to create scenes and schedules. Dimension: 191x 102,5 x 30 mm, inputs: 2x USB2.0, 1xMicro SD, 2x RS-485 (no 1 - SBUS; no 2 - MODBUS), lan interface RJ-45, 4x TECH RS		
EH-01	wireless WTP oraz wired Sinum SBUS		
	EH-01 LITE SINUM CENTRAL DEVICE The EH-01 Lite main unit is a device that collects and processes information from external devices and executive modules, enabling the user to view and change their operating status from the local network and through CLOUD access. The EH-01 Lite main unit also allows you to create automations based on connected devices as well as on data collected from them. It is also possible to create scenes and schedules. Dimension 145 x 83 x 27 mm, inputs: 1x USB2.0, Micro SD, 1x RS-485 (SBUS), lan interface RJ-45, 1x TECH RS		
EH-01 LITE	wireless WTP oraz wired Sinum SBUS		
CONTROL PANEL			
	CP-04M MULTIFUNCTIONAL CONTROL PANEL WITH TEMPERATURE REGULATOR The CP-04 control panel is a multi-tasking device. Thanks to it, we can display the current weather forecast, check the temperature in the room in which it is installed (has the possibility of connecting an air temperature sensor and a floor temperature sensor) and set shortcuts to favorite scenes. The panel therefore functions as a weather indicator, temperature controller and scene switch. All this is controlled from a 4-inch color touch screen.		
CP-04m	wired Sinum SBUS		
LIGHTS			
	WS-01 SWITCH 1 GANG 1x voltage output SINGLE series stylish glass switches can be used not only to control lightning, but also any device connected to the SINUM smart home system. The switch has an LED backlight that informs about the device status (on/off).		
WS-01	wireless WTP	WS-01m	wired Sinum SBUS
	WS-02 SWITCH 2 GANG 2x voltage output SINGLE series stylish glass switches can be used not only to control lightning, but also any device connected to the SINUM smart home system. The switch has an LED backlight that informs about the device status (on/off).		
WS-02	wireless WTP	WS-02m	wired Sinum SBUS
	WS-03 SWITCH 3 GANG 2x voltage output + 1x programmable virtual output SINGLE series stylish glass switches can be used not only to control lightning, but also any device connected to the SINUM smart home system. The switch has an LED backlight that informs about the device status (on/off).		
WS-03	wireless WTP	WS-03m	wired Sinum SBUS
	WS-04 SWITCH 4 GANG 2x voltage output + 2x programmable virtual output SINGLE series stylish glass switches can be used not only to control lightning, but also any device connected to the SINUM smart home system. The switch has an LED backlight that informs about the device status (on/off).		
WS-04	wireless WTP		

Product overview

FS-01 SWITCH 1 GANG 1x voltage output / no frame included FRAME series glass switches can be used not only to control lightning, but also any device connected to the SINUM smart home system. The switch has an LED backlight that informs about the device status (on/off). Intended to be mounted in SINUM glass frames or 55x55mm systems.			
FS-01	wireless WTP	FS-01m	wired Sinum SBUS

FS-02 SWITCH 2 GANG 2x voltage output / no frame included FRAME series glass switches can be used not only to control lightning, but also any device connected to the SINUM smart home system. The switch has an LED backlight that informs about the device status (on/off). Intended to be mounted in SINUM glass frames or 55x55mm systems.			
FS-02	wireless WTP	FS-02m	

FG RAMKA SZKLANA A glass frame designed for mounting switches or framed regulators. Internal dimension of the opening: 55x55 mm. Suitable for the F, FS and FZ series.			
	FG-01 pojedyncza	FG-03 potrójna	FG-05 pięciokrotna
	FG-02 podwójna	FG-04 poczwórna	

WSS-22 SWITCH 4 GANG 4x voltage output Integrated wall switches from the DOUBLE series give your interior a unique look. The switch is equipped with a total of 4 touch sensor fields. The switch has an LED backlight that informs about the device status (on/off).			
WSS-22	wireless WTP	WSS-22m	wired Sinum SBUS

WSS-32 SWITCH 5 GANG 4x voltage output + 1x programmable virtual output Integrated wall switches from the DOUBLE series give your interior a unique look. The switch is equipped with a total of 5 touch sensor fields. The switch has an LED backlight that informs about the device status (on/off).			
WSS-32	wireless WTP	WSS-32m	wired Sinum SBUS

WSS-33 SWITCH 6 GANG 4x voltage output + 2x programmable virtual output Integrated wall switches from the DOUBLE series give your interior a unique look. The switch is equipped with a total of 6 touch sensor fields. The switch has an LED backlight that informs about the device status (on/off).			
WSS-33	wireless WTP	WSS-33m	wired Sinum SBUS

RGB-P4 / RGB-P4m	**RGBW-01 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. RGB-S5m and RGB-S5 are RGBWW module.		RGB-S5 / RGB-S5m
RGB-P4	wireless WTP	RGB-S5	wireless WTP
RGB-P4m	wired Sinum SBUS	RGB-S5m	wired Sinum SBUS

TECH CONTROLLERS | Sinum

Product overview

DIM-01 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.

DIM-P4 / DIM-P4m			DIM-S5 / DIM-S5m
DIM-P4	wireless WTP	DIM-S5	wireless WTP
DIM-P4m	wired Sinum SBUS	DIM-S5m	wired Sinum SBUS

GATES AND ROLLER SHUTTERS

WZ-02 ROLLER SHUTTER CONTROLLER

2x voltage output

A glass and stylish switch from the SINGLE series for controlling roller shutters connected to the SINUM smart home system. The touch panel is equipped with 2 sensor fields that allow you to control the roller shutters using the built-in voltage outputs. The switch has an LED backlight that informs about the device status (on/off).

WZ-02	wireless WTP	WZ-02m	wired Sinum SBUS

FZ-02 ROLLER SHUTTER CONTROLLER

2x voltage output / no frame included

FRAME series glass switches can be used not only to control lightning, but also any device connected to the SINUM smart home system. The switch has an LED backlight that informs about the device status (on/off). Intended to be mounted in SINUM glass frames or 55x55mm systems.

FZ-02	wireless WTP	FZ-02m	wired Sinum SBUS

WSZ-22 SWITCH 2 GANG + ROLLER SHUTTER CONTROLLER

2x voltage output + 2x voltage output

Integrated wall switches from the DOUBLE series give your interior a unique look. The switch is equipped with a total of 4 touch sensor fields. The touch panel is equipped with 2 sensor fields that allow you to control the roller shutters using the built-in voltage outputs. and 2 sensor fields for controlling lights. The switch has an LED backlight that informs about the device status (on/off).

PRAWA

LEWA

WSZ-22P - PRAWA		WSZ-22mP - PRAWA	
WSZ-22L - LEWA	wireless WTP	WSZ-22mL - LEWA	wired Sinum SBUS

PSZ-02 DIN RAIL RELAY FOR ROLLER SHUTTERS

2x voltage signal input + 2x voltage-free output

PSZ-02	wireless WTP	PZ-02m	wired Sinum SBUS

PPZ-02 FLUSH-MOUNTED RELAY FOR ROLLER SHUTTERS

2x voltage signal input + 2x voltage-free output

PPZ-02	wireless WTP		

Product overview

	MB-04 MODUŁ BRAMY 2x wejście dwustanowe, 2x wyjście dwustanowe		
MB-04	wireless WTP	MB-04m	wired Sinum SBUS
RELAY MODULES			
	PS-02 DIN RAIL RELAY 2x voltage signal input + 2x voltage-free output		
PS-02	wireless WTP	PS-02m	wired Sinum SBUS
	PS-08 DIN RAIL RELAY 8x voltage-free output		
PS-08	wireless WTP		
	PS-06M DIN RAIL RELAY 6x voltage-free output		
PS-06m	wired Sinum SBUS		
	PS-08 230 DIN RAIL RELAY 8x 230V voltage output		
PS-08 230	wireless WTP	PS-08m 230	wired Sinum SBUS
	PPS-01 230 FLUSH-MOUNTED RELAY 1x voltage signal input + 1x voltage output		
PPS-01 230	wireless WTP	BIAŁY	
	PPS-01 FLUSH-MOUNTED RELAY 1x voltage-free output		
PPS-01	wireless WTP	BIAŁY	
	PPS-02 FLUSH-MOUNTED RELAY 2x voltage signal input + 2x voltage-free output		
PPS-02	wireless WTP		
	FF-230 WIRELESS SOCKET (FLUSH-MOUNTED IN A FRAME) The socket is an executive device to be mounted directly in a frame.		
FF-230	wireless WTP		

Product overview

	SG-230 WIRELESS SOCKET (FLUSH-MOUNTED) The socket is an executive device to be mounted directly in a frame.		
SG-230	wireless WTP		
INPUT/OUTPUT CARDS			
	KW-03M INPUT CARD 1x 2-state input, 1x NTC sensor input, 1x potential-free contact		
KW-03m	wired Sinum SBUS	BIAŁY	
	KW-04 INPUT/OUTPUT CARD 2x voltage input, 2x voltage free output		
KW-04	wireless WTP	PS-02m	wired Sinum SBUS
	KW-10M INPUT/OUTPUT CARD INPUTS: 2x voltage free, 2x 0-10V, 2x PWM, 1x 4-20mA OUTPUTS: 1x NTC sensor, 2x 2-state		
KW-10m	wired Sinum SBUS		
	KW-11M INPUT CARD 4x 2-state input, 4x NTC sensor input, 1x 1 wire input, 2x 0-10V output		
KW-11m	wired Sinum SBUS		
	KW-12M INPUT CARD 4x 2-state input, 8x NTC sensor input		
KW-12m	wired Sinum SBUS		
	KW-12-2M INPUT CARD 12x 2-state input		
KW-12-2m	wired Sinum SBUS		
EXTENDERS			
	EX-G1 EXTENDER Thanks to the EX-01 Extender, you will extend the range of the wireless system. The extender connects to the SINUM system devices and transmits data to the EH-01 main unit via WiFi. It is mounted in a 60mm box and powered by 230V.		
EX-G1	wireless WTP		
	EX-S1/ EX-S1M EXTENDER With the EX-S1 Extender, you can extend the range of your wireless or wired system. The Extender connects to SINUM system devices and sends data to the EH-01 control center via WiFi or LAN network. It is mounted ona a DIN rail powered by 230V AC. With the EX-S1m Extender, you can extend the range of your wired system. The Extender connects to SINUM system devices and sends data to the EH-01 control center via WiFi or LAN network. It is mounted ona a DIN rail and powered by 24V DC.		
EX-S1	wireless WTP	EX-S1m	wired Sinum SBUS

Product overview

	EX-MODBUS EXTENDER Thanks to the EX-MODBUS Extender, you will extend the range of the MODBUS devices. The Extender connects to SINUM system devices and sends data to the main unit via WiFi or LAN network.
EX-MODBUS	przewodowa MODBUS RTU	

HEATING		
	PS-10 230 / PS-10M 230 WIRELESS CONTROLLER FOR THERMOSTATIC ACTUATORS Possibility of controlling up to 50 thermostatic actuators, one 230V output for pump, voltage-free contact (e.g. for controlling the heating device), 2x voltage-free input	
PS-10 230	wireless WTP	PS-10m 230	wired Sinum SBUS
	EHI-2 INSTALLATION CONTROLLER 2 MIXING VALVE ACTUATORS Control of the three- or four-way mixing valve, valve pump control, pump control, return water temperature protection, weather-based regulation, week-based regulation, the possibility of connecting room regulator with RS or traditional communication,	
EHI-2	przewodowa RS TECH	
	EHI-1M EXTENSION MODULE FOR EHI-2 Control of the three- or four-way mixing valve, possibility of connecting room regulator with traditional communication, valve sensor, outdoor sensor, CH sensor, return water temperature sensor.	
EHI-1m		
	R-S1 DEDICATED WIRED ROOM REGULATOR FOR SINUM Functions: room temperature control, Sinum SBUS wired communication, power 24V DC. Equipment: bulit-in room temperature sensor, humidity sensor, LCD display, no backlit, mechanical buttons * White or black casing. In case of lack of colour selection color will be chosen randomly.	
R-S1	wired Sinum SBUS	
	R-S2 DEDICATED WIRED ROOM REGULATOR FOR SINUM Functions: room temperature control, Sinum SBUS wired communication, power 24V DC. Equipment: bulit-in room temperature sensor, humidity sensor, LCD display, no backlit, touchable buttons * White or black casing. In case of lack of colour selection color will be chosen randomly.	
R-S2	wired Sinum SBUS	
	R-S3 DEDICATED WIRED ROOM REGULATOR FOR SINUM Functions: room temperature control, additional control based on floor temperature (if floor sensor is used), Sinum SBUS wired communication, power 24V DC. Equipment: bulit-in room temperature sensor, humidity sensor, LCD display with temporary backlit * White or black casing. In case of lack of colour selection color will be chosen randomly	
R-S3	wired Sinum SBUS	
	FR-S2 DEDICATED WIRED ROOM REGULATOR FOR SINUM (FLUSH-MOUNTED) Functions: room temperature control, additional control based on floor temperature (if floor sensor is used), Sinum SBUS wired communication, power 24V DC Equipment: bulit-in room temperature sensor, humidity sensor, LCD display, no backlit, flush mountable in electrical box (ø60mm) * White or black casing. In case of lack of colour selection color will be chosen randomly.	
FR-S2	wired Sinum SBUS	

Product overview

	C-S1P MINI WIRED ROOM TEMPERATURE SENSOR (FLUSH-MOUNTED) Functions: room temperature measurement
C-S1p	przewodowa 2 żyły

	C-S1M WIRED ROOM TEMPERATURE AND HUMIDITY SENSOR Functions: room temperature and humidity measurement
C-S1m	wired Sinum SBUS

	FC-S1P / FC-S1M WIRED ROOM TEMPERATURE SENSOR (FLUSH-MOUNTED IN A FRAME) Functions: room temperature measurement		
FC-S1p	przewodowa 2 żyły	FC-S1m	wired Sinum SBUS

 PRAWA	**WSR-01 ROOM REGULATOR + SWITCH 1 GANG** 1x voltage output Integrated wall switches with built-in temperature controllers from the DOUBLE series give your interior a unique look. The switch is equipped with 1 touch sensor fields. The switch has an LED backlight that informs about the device status (on/off).		 LEWA
WSR-01P - PRAWA WSR-01L - LEWA	wireless WTP	WSR-01mP - PRAWA WSR-01mL - LEWA	wired Sinum SBUS

 PRAWA	**WSR-02 ROOM REGULATOR + SWITCH 2 GANG** 2x voltage output Integrated wall switches with built-in temperature controllers from the DOUBLE series give your interior a unique look. The switch is equipped with 2 touch sensor fields. The switch has an LED backlight that informs about the device status (on/off).		 LEWA
WSR-02P - PRAWA WSR-02L - LEWA	wireless WTP	WSR-02mP - PRAWA WSR-02mL - LEWA	wired Sinum SBUS

 PRAWA	**WSR-03 ROOM REGULATOR + SWITCH 3 GANG** 2x voltage output + 1x programmable virtual output Integrated wall switches with built-in temperature controllers from the DOUBLE series give your interior a unique look. The switch is equipped with 3 touch sensor fields. The switch has an LED backlight that informs about the device status (on/off).		 LEWA
WSR-03P - PRAWA WSR-03L - LEWA	wireless WTP	WSR-03mP - PRAWA WSR-03mL - LEWA	wired Sinum SBUS

Product overview

	WZR-02 ROOM REGULATOR + ROLLER SHUTTER CONTROLLER		
PRAWA	Integrated wall switches from the DOUBLE series give your interior a unique look. The switch is equipped with a total of 4 touch sensor fields. The touch panel is equipped with 2 sensor fields that allow you to control the roller shutters using the built-in voltage outputs. and 2 sensor fields for controlling lights. The switch has an LED backlight that informs about the device status (on/off).		LEWA
WZR-02P - PRAWA	wireless WTP	WZR-02mP - PRAWA	wired Sinum SBUS
WZR-02L - LEWA		WZR-02mL - LEWA	
	EU-C-7P WIRED ROOM TEMPERATURE SENSOR		
	Functions: room temperature measurement		
C-7p	przewodowa 2 żyły		
	EU-C-8R WIRELESS ROOM TEMPERATURE SENSOR		
	Functions: room temperature measurement		
C-8r	wireless WTP		
	EU-C-8F WIRELESS FLOOR TEMPERATURE SENSOR		
	Functions: floor temperature measurement		
C-8f	wireless WTP		
	EU-C-8ZR WIRELESS OUTDOOR TEMPERATURE SENSOR		
	Functions: outdoor temperature measurement		
C-8zr	wireless WTP		
	EU-C-MINI WIRELESS ROOM TEMPERATURE SENSOR		
	Functions: room temperature measurement		
C-mini	wireless WTP		
	EU-CL-MINI WIRELESS ROOM TEMPERATURE AND HUMIDITY SENSOR		
	Functions: room temperature and humidity measurement		
CL-mini	wireless WTP		
	EU-R-8B WIRELESS ROOM REGULATOR		
	Functions:room temperature control, heating program with time limit. Bulit-in room temperature sensor, LCD display, 2xAAA batteries, no backlit		
	* White or black casing. In case of lack of colour selection color will be chosen randomly.		
R-8b	wireless WTP		

TECH CONTROLLERS | Sinum

Product overview

	EU-R-8X WIRELESS ROOM REGULATOR Functions: room temperature control, heating program with time limit. Bulit-in room temperature sensor, LCD display, 2xAA batteries, no backlit, mechanical buttons
R-8x	wireless WTP
	EU-R-8B PLUS WIRELESS ROOM REGULATOR Functions: room temperature control, heating program with time limit. Bulit-in room temperature and humidity sensor, additional control based on floor temperature (in case of using NTC floor sensor - not included), LCD display, 2xAAA Batteries, no backlit * White or black casing. In case of lack of colour selection color will be chosen randomly.
R-8b PLUS	wireless WTP
	EU-R-8S PLUS WIRELESS ROOM REGULATOR Functions: room temperature control, heating program with time limit. Bulit-in room temperature and humidity sensor, additional control based on floor temperature (in case of using NTC floor sensor - not included), LCD display with temporary backlit, 2xAAA Batteries, * White or black casing. In case of lack of colour selection color will be chosen randomly.
R-8s PLUS	wireless WTP
	EU-R-8PB PLUS WIRELESS ROOM REGULATOR (FLUSH-MOUNTED) Functions: room temperature control, heating program with time limit. Bulit-in room temperature and humidity sensor, additional control based on floor temperature (in case of using NTC floor sensor - not included), LCD display with temporary backlit,powered 2xAAA Batteries, Flush mountable in electrical box (ø60mm) * White or black casing. In case of lack of colour selection color will be chosen randomly.
R-8pb PLUS	wireless WTP
	EU-R-8PZ PLUS WIRELESS ROOM REGULATOR (FLUSH-MOUNTED) Functions: room temperature control, heating program with time limit. Bulit-in room temperature and humidity sensor, additional control based on floor temperature (in case of using NTC floor sensor - not included), LCD display with temporary backlit, powered 230V, Flush mountable in electrical box (ø60mm) * White or black casing. In case of lack of colour selection color will be chosen randomly.
R-8pz PLUS	wireless WTP
	EU-F-8Z WIRELESS ROOM REGULATOR (FLUSH-MOUNTED) Functions: room temperature control, heating program with time limit. Bulit-in room temperature and humidity sensor, additional control based on floor temperature (in case of using NTC floor sensor - not included), LCD display with temporary backlit, powered 230V, Flush mountable in electrical box (ø60mm) * White or black casing. In case of lack of colour selection color will be chosen randomly
F-8z	wireless WTP
	EU-R-8 LED WIRELESS ROOM REGULATOR (FLUSH-MOUNTED) Functions: room temperature control, heating program with time limit. Bulit-in room temperature and humidity sensor, additional control based on floor temperature (in case of using NTC floor sensor - not included), LCD display with temporary backlit, powered 230V, Flush mountable in electrical box (ø60mm) * White or black casing. In case of lack of colour selection color will be chosen randomly
R-8 LED	wireless WTP

Product overview

	EU-C-2N WINDOW SENSOR Functions: wireless communication, window opening signal, heating control, compact in size, long-life battery, discreet design. Power: EVE ER14250 S battery

C-2n	wireless WTP	RAL 9010- white RAL 7016 - antracit	RAL 8017 - brown RAL 8003 - golden oak

	FLOOR TEMPERATURE SENSOR - NTC TYPE (plastified PVC cable insulation) 1,5m - extra charge for each meter: 1 EUR NETTO

NTC 150cm		NTC 250cm	

	EU-MW-1 EXECUTIVE MODULE Main assets: voltage-free relay (EU-MW-1) or voltage relay (EU-MW-1-230V), operation in manual mode, wireless communication with main controller or temperature sensor (master/slave mode), in case of loss of communication, the contact is switched off. 4 LEDs indicating: communication, power, manual mode, contact status

MW-1	wireless WTP	MW-1 230	wireless WTP

	EU-MWN-1 EXECUTIVE MODULE Main assets: voltage-free relay (EU-MWN-1) or voltage relay (EU-MWN-1-230V), wireless communication with main controller (slave mode), in case of loss of communication, the contact is switched off

MWN-1	wireless WTP	MWN-1 230	wireless WTP

	STT-869 WIRELESS ELECTRIC ACTUATOR Technical data: Output – nut with M30x1,5 thread; Communication – wireless, frequency 868MHz; power supply: 2xAA 1,5V batteries. new design, registration button built on the front of actuator, Available thread M28x1,5 adapter

STT-869	wireless WTP		

	G-X WIRELESS ELECTRIC ACTUATOR Technical data: Output – nut with M30x1,5 thread; Communication – wireless, frequency 868MHz; power supply: 2xAA 1,5V batteries. Available thread M28x1,5 adapter

G-X	wireless WTP		

	STT-230/2 THERMOELECTRIC ACTUATOR ACTUATOR IS NORMALLY CLOSED (NC). Technical Data: Fittings: nut with M30 x 1,5 or M28x1,5 screw thread, Stroke: 3,5 mm, Class: IP40. Opening time: under 5 min. Max. operation temperature: 60°C. Power supply: 230V 50Hz

STT-230/2 M30x1,5		STT-230/2 M28x1,5	

	STT-230/2 T THERMOELECTRIC ACTUATOR ACTUATOR IS NORMALLY CLOSED (NC). Technical Data: Fittings: nut with M30 x 1,5 or M28 x 1,5 screw thread, Class - IP45. Opening time: under 3,5 min. Stroke - 3,7mm, Max. operation temperature: 60°C. Power supply: 230V 50Hz

STT-230/2 T M30x1,5		STT-230/2 T M28x1,5	

	STT-230/2 M THERMOELECTRIC ACTUATOR ACTUATOR IS NORMALLY CLOSED (NC). Technical Data: Fittings: nut with M30 x 1,5 screw thread, Class - IP42. Opening time: under 4 min. to 3mm, Stroke - 5mm, Max. operation temperature: 60°C. Power supply: 230V 50Hz

STT-230/2 M M30x1,5			

TECH CONTROLLERS | Sinum

Product overview

SAFETY			
	CJP-01 AIRBORNE PARTICULATE MATTER The device monitors the concentration of particulate matter contained in the air in the room where it is located.		
CJP-01	wireless WTP		
	MC-01 MULTI SENSOR The MC-01 multi-sensor is a device that combines many functions. It is a air temperature sensor which offers the possibility to measure additional data such as: air quality - VOC, atmospheric pressure and air humidity.		
MC-01	wireless WTP		
	MC-02 MULTI SENSOR The MC-02 multi-sensor is a device that combines many functions. It is a room regulator which offers the possibility to measure and display additional data such as: air quality, CO2 concentration, atmospheric pressure, air temperature and air humidity.		
MC-02	wireless WTP	MC-02m	wired Sinum SBUS
	CR-01 MOTION SENSOR The device is equipped with a motion sensor, light intensity sensor, temperature sensor and air humidity sensor.		
CR-01	wireless WTP		
	CD-01 SMOKE SENSOR The device detects smoke in the room in which it is located. It is also equipped with an alarm signal.		
CD-01	wireless WTP		
	CO-2 CO2 sensor The device measure CO2 in the room in which it is located.		
CO2	wireless WTP		
	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 or use a probe to detect flooding.		
CZ-01	wireless WTP	CZS-01	
ADDITIONAL MODULES			
	BT-01 BUTTON The device can be used to trigger actions and scenes depending on the number of times you press or hold the button.		
BT-01	wireless WTP		
	RC-07 REMOTE CONTROLLER 7x programmable buttons		
RC-07	wireless WTP		

Product overview

WP-04 MULTIFUNCTION BUTTON 4 GANG 4x programmable virtual output			
WP-04	wireless WTP		
ZS-24/100 / ZS-24/30 POWER SUPPLY 24V power supply for DIN rail ZS-24/100 - 92W, 24VDC, 3,83A, 85÷264VAC ZS-24/30 - 36W, 24VDC, 1.5A, 85÷264VAC			
ZS-24/100		ZS-24/30	
LE-3x230mb 3 phase two-way energy meter with MID certyficate 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.			
LE-3x230mb	przewodowa modbus RTU		
PK-230 / PK-24 RELAY ON DIN RAIL relay on DIN rail 230V AC, obciążalność16 A relay on DIN rail 24V DC, obciążalność16 A			
PK-230		PK-24	
ZO-15 / ZO-20 / ZO-25 electronic water shut off valve electronic water shut off valve ZO-15 - 1/2" DN15, ZO-20 - 3/4" DN20, ZO-25 - 1" DN25 Power supply 230V AC			
ZO-15	ZO-20	ZO-25	
KB-SBUS COMMUNICATION WIRE WITH POWER CORD Communication wire with power cord 2x0,75mm² CU + (2x2x0,5mm² CU) The cable is sold in a 100m roll or a 300m spool.			
KB-SBUS 300m			KB-SBUS 100m
FT-01i / FT-01a GLASS FRAME FOR iPad or Samsung tablets FT-01i glass frame for Apple iPad 10,2" (gen.8) FT-01a glass frame for Samsung Galaxy A8 10.5" (9" - 10,5")			
FT-01a			FT-01i
ZEH-DIN CENTRAL UNIT HOLDER ON DIN RAIL			
ZEH-DIN			

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