House Automatic System

to live more comfortably

CONTENTS

WHAT IS HOMER?

HOMER
NEW QUALITY IN CREATING COMFORT IN YOUR LIVING SPACE

The HOMER System forms new quality in creating friendly living spaces. HOMER is not a luxury solution for the few.

Thanks to it, you will get full control over the functions of the house in an extremely simple way, from any place, at any time and most importantly: it is done wirelessly.

The cost of implementing the HOMER System in a newly built object is practically the same as in the case of traditional installations. Never before has the electrical installation control system been so easy to install, to operate and so wallet-friendly. Without unnecessary costs but with profit for the investment.

SYSTEM FOR A NEW BUILDING AND AN ALREADY INHABITED ONE

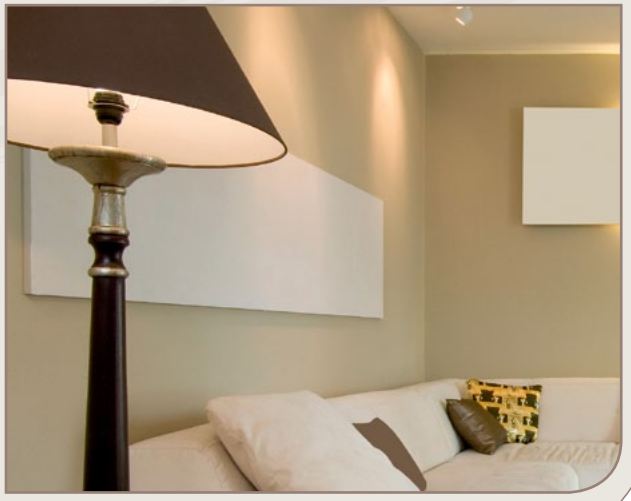
The HOMER system is designed to allow fast installation in newly built facilities as well as in already inhabited ones.

NEW FACILITIES

Designing the HOMER System for a new object, you can get its full functionality and save even more. The wireless communication of the System allows to reduce the wiring of a building in comparison with traditional installation.

INHABITED OBJECTS

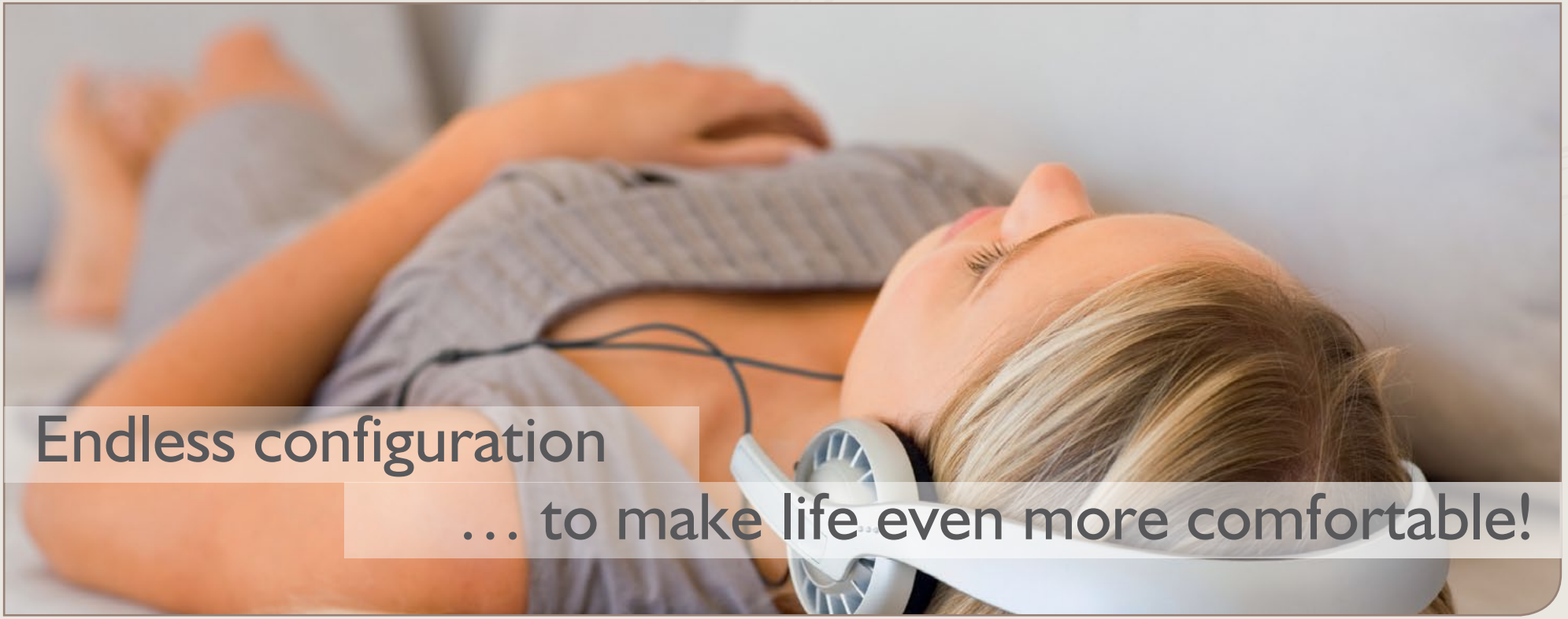
No wires - no limits. Without hammering walls, without laying the cables. The Wireless HOMER System makes it possible to achieve the same functionality as in the case of newly planned facilities. The control range that is going to be covered by the System, as well as its functionality depends on your tastes and creativity.



HOW DOES IT WORK?

HOMER integrates electrical systems so that heating, air-conditioning, ventilation, lighting and alarm with monitored access to all rooms turn into one efficient system, enhancing comfort and safety of house occupants. Wireless electronics and remote-controlled software allows everyone to manage energy resources in a manner suitable for their needs.

In practice, it means that the system makes it possible to integrate electric appliances in such way, that just one gesture of a hand is enough to create a romantic lighting scene in a living room or bedroom, lower down roller blinds or adjust room temperature, while the option of remote-controlling via internet guarantees, that even after coming back from along holiday, we will be welcomed in our house as if we have never left …



IMAGINATION IS THE LIMIT ...

The system is designed in such a way as to not restrict the user. It is possible to implement both common as well as specific features. The combination of System devices and their extremely ergonomic configuration makes life easier for all in most common house system solutions. In addition, the configuration of logical sequences depends primarily on the taste and ingenuity of the user. For example, with one button, you can run many different functions, including those dependent on each other or to external factors such as temperature, time of day, presence of people in the room, and many others.

WHAT IS HOMER LIKE?

There is still one more saving - and perhaps the most important for you - HOMER saves your precious time. It remembers the details for you and allows the control of multiple functions simultaneously.

EASY TO IMPLEMENT

Radio waves instead of traditional cables, advanced software instead of control cabinets. Just one click is enough to designed scheme onto efficiently working system. Installing HOMER is a pure pleasure.

FLEXIBLE

With HOMER you don't have to plan ahead. System can be extended or modified any time you want. It is compatible with accessories produced by various manufacturers, it doesn't require non-standard switches or power supplying plugs.

ERGONOMIC

HOMER creates a user-friendly environment. Controlling with the use of intuitive buttons on mobile phone is so easy that both senior of a family and small child is able to change setting parameters. More demanding users can use their home computers. With HOMER everything is easy as pie.

SAFE

With HOMER everything is under control. Alarm is automatically set after the door have been closed, roller blinds are lowered down at set times and even if you leave your iron on, your home won't be in danger of fire.The system immediately diagnoses all problems which are signalized via e-mail or SMS.

ECONOMICAL AND ECOLOGICAL

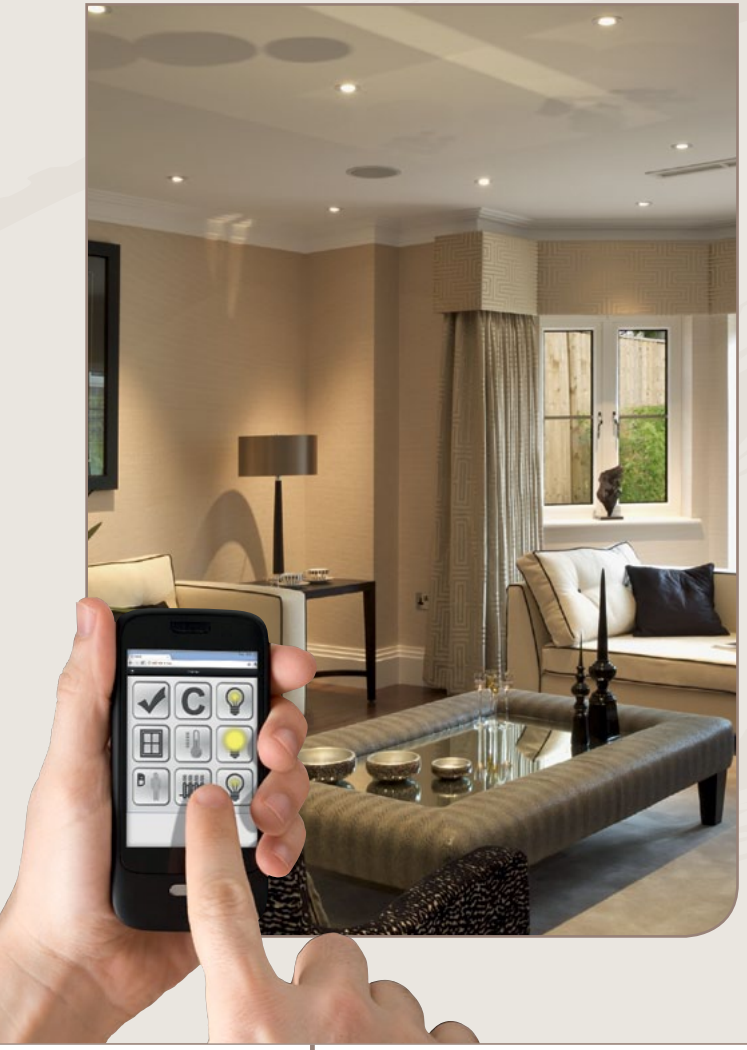
Imagine a building consuming 30% less energy. This is how HOMER works. It is beneficial both for natural environment and for home budget. It is because energy supply is reduced in rooms which are not occupied.

COMFORTABLE

Is it too hot in your room? Is it too dark? Forget about everyday adjustment of settings, because HOMER is a new era of comfort. Parameters adjusting automatically to the needs of house occupants guarantee optimal temperature, lightening and even humidity in a garden.

HOMER UNDER YOUR ROOF

YOUR HOUSE ...



... WELCOMES YOU

Already at the entrance, the house will recognise that you have not been home a long time and it will turn the lights on for you with previously set intensities, e.g. in the foyer, kitchen and lounge, and will play favourite music. When you come back at a different time of day it can raise the blinds to your preferred level and turn on your favourite music .

... WILL TAKE CARE OF YOUR COMFORT AND YOUR WALLET

The temperature will be adjusted to your preferences according to a planned profile. HOMER will take care of this in advance or after your arrival home. Independently for each of the rooms. Sit back, when you were away the house saved energy.

... WILL REMEMBER THE DETAILS

It will switch off the lights if you forget to do it when going out. Depending on the sunlight intensity, time of the day, temperature or the presence of family members, the system can control blinds, lighting inside and outside the house, the temperature in the rooms.

... CAN BE CONTROLLED BY SMARTPHONE, TABLET, IR REMOTE CONTROL

Decide yourself what you want to control. Define the menu, which in your smartphone or tablet` will allow you to manage system components. Clear icons and easy access to functions will make your house even more adaptable to your preferences. You can also control the system functions using an eight-key remote control. All of this directly from your favourite sofa.

LIGHT SCENES – CREATE A GOOD MOOD

Work, fun, dinner for two – for each of these situations you can assign an individual lighting scene enriching the mood. Enjoy the convenience of rapid adaptation of lighting to your preferences. Determine which points of light should shine and with what intensity. Individual scenes can be triggered by clicking on a wall switch, wireless remote control, or an icon on the smartphone and tablet.

1) The full lighting - when you need full brightness,

2) Watching TV – backlit TV-set, other lights at 20% of power,

3) A moody evening - all the lights to 35% power, one of the lamps lit up more strongly,

4) The common meal - soft lighting around the table, which will not disturb candlelight.

YOUR FAVOURITE MUSIC, VIDEO

Tuning to your favourite radio station, switching on your TV set or home theatre system for watching it has never been so easy. Using a certain function of your TV set or Hi-Fi set may be combined with a lighting scene adjusted to the situation. When you enter into the house, your house can welcome you with your favourite music.

REMOTE ACCESS

You come back home at an unusual time, send SMS, and before you return your house will adjust the temperature to your preferences and welcome you as you prefer.

Do you want to see what happens at home, which lights are turned on, in what rooms a movement is detected, draw blinds or change the temperature in the room? You can do it from any place in the world with Internet access.

BEDROOM

IMPORTANT ATMOSPHERE

Determine the preferred temperature profile for your bedroom.

TIME TO SLEEP

You can combine an evening lighting scene with pulling down the roller blinds or turning off the light in all the rooms.

TIME TO WAKE UP

The temperature is already adjusted to your preferences. One move and roller blinds rise, the lighting and the selected radio station are greeting you

CHILD'S ROOM

TAKE CARE OF YOU COMFORT

Schedule a soft illumination for example at 5% of light power when your child goes on a night walk to the bathroom. Such a dim light will help the child, will not awake him, and will not wake up other family members.

ENSURE YOUR SAFETY

Turn off the selected power outlets in your preferred time. When you decide that the time has come, restore the power.

TIME TO SLEEP?

When it comes time to sleep, it is worth to ensure favourable mood. Select the lighting scene, appropriate to the evening ceremony of falling asleep of the child. If you want you can also specify the time at which the dim light automatically turns off leaving the comfort of your baby to fall asleep with a slightly lightened room.

KITCHEN/ DINING ROOM

You do not have to interrupt your meal.
Control functions you have selected using the RC, the tablet or smartphone.

BATHROOM

While leaving the house in the morning – I need light. Having a bath in the evening – I need mood. Create preferred lighting scenes that suit your needs.
The control of ventilation or aroma dispenser may be dependent on the presence of people in the bathroom in conjunction with the schedule.

SURROUNDINGS

COMING HOME

Open the gate with your existing remote control, and the lighting of the driveway and the house will greet you as you want. The interior of the house may also be already prepared for your entrance - the light, the music.

THE MOOD IN THE GARDEN

You can also prepare some lighting scenes for your garden. Enabling lighting may depend on a time of the day or on the presence of people in the house or the garden. You can plan actions of your garden equipment such as waterfall, pond, irrigation system.

SECURITY

YOU KNOW WHAT IS HAPPENING IN THE HOUSE

You have a possibility to constantly monitor what is happening at home. Events, selected by you, might be signalled by sending SMS. At any time, from any place in the world with Internet access you can check the status of sensors, such as the time of triggering of a motion sensor, the temperature in the living room or whether the lights shine in it.

HAVE YOU FORGOT? THE HOUSE WILL DO IT FOR YOU

Can't you remember if you turned the lights off, pulled down the roller blinds, locked the door gate equipped with a motor or closed a window? You do not have to go back, do it remotely.

EVEN IF YOU ARE NOT IN THE HOUSE, OTHERS THINK THAT YOU ARE IN.

You can make the house seem alive when you're away. At the precisely programmed or randomly selected time you can switch on and off some selected lights, pull up or down roller blinds, turn music on or off, and start or stop other functions. Simulation of people's presence often helps.

IF AN INTRUDER COMES

However, if the intruder comes in, your house may notify you or your security. You can plan the house reactions to such a situation, as closing the blinds, illuminating of the successive points of light, disorienting an intruder until someone's arrival.

ENERGY SAVING

HOUSE REMEMBERS TO SAVE

Why to use energy when it is not needed? Why to use more expensive energy sources, when you can benefit from the cheaper ones?

The biggest savings comes from switching off the sources of energy when they are not needed. The examples:

- Automatically or remotely turning off the lights, which someone forgot to turn off.
- creating individual profiles of temperature for the household - the presence of one of them does not generate energy consumption in the rooms where the other person usually resides,
- When staying at some rooms is irregular, there is the possibility of thermal management by activating any pre-programmed profile, such as standard or econo,
- exclusion or limitation of cooling or heating of the rooms when they are rarely or even not at all used, e.g. when the household members are away for a few days.

The house may use cheaper sources of energy first, and only when they are not sufficient it may start to use the basic sources. Examples:

- usage of different tariffs for electricity and switching equipment in the time of the relevant tariffs,
- switching systems for indoor temperature regulation according to the rule of the lowest energy cost required for this process and the effectiveness of the system - ventilation priority and if it is not enough then using air conditioning,

Savings also come from a very significant extension of lifetime of light sources, in particular the traditional incandescent bulbs, halogen bulbs because of the use of an initial, short-term gradual increase in light intensity, the so-called soft start.

CENTRAL CONTROL

QUICKLY AND COMFORTABLY

The selected functions may be started with one button. Activities that traditionally require to move from switch to switch, from device to device, are in the System HOMER available using a single key, or one icon:

- Turn on the lights at one moment at selected points of the house - a very useful feature when entering the house,
- Leaving the house, turn off all the points of light, pull down the blinds and switch the temperature to energy saving mode for each of the room,
- Turn off the selected electrical outlets for the safety of your children,
- Going to bed pull down the blinds and switch off the selected exterior lighting,
- ... and many others that are waiting for implementation according to your preferences.

LOGICAL SEQUENCES

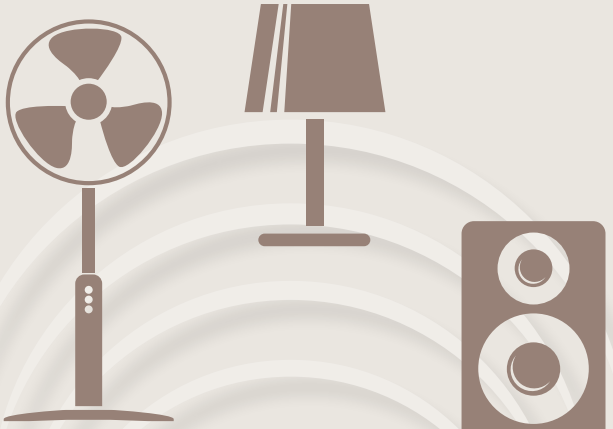
Unlimited number of sequences of actions

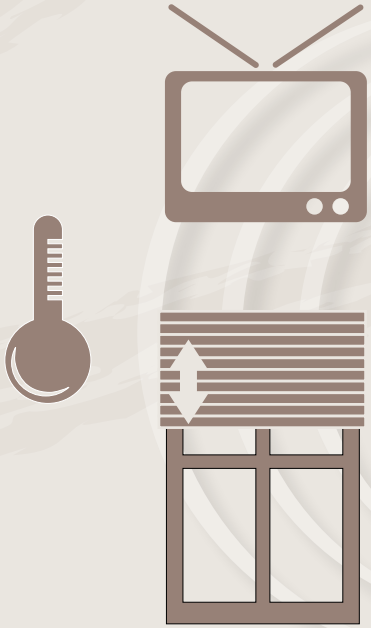
The individual functions of the System can operate and gather information depending on

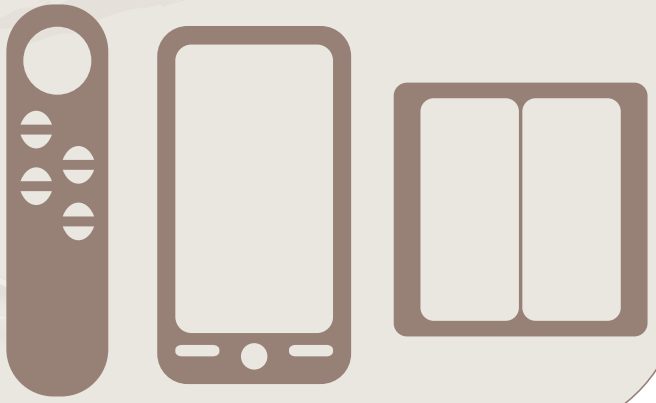
- Time,
- Level of illumination,
- Detection or lack of motion
- Temperature

OTHER FACTORS

In this way you can build relationships between events - the conditions when the desired function or functions will be performed.







HOW DOES HOMER WORK AND WHAT DOES IT CONSIST OF?

HOMER is a pure innovation visible as hardware and software

HOMER system is based on a solution of wireless communication with the central control element. Main System Controller collects the information sent from sensors (switches and sensors). Inside it, the information is processed and send to the actuators (or in other words to the electronic devices) that - appropriately to their purpose - control other system components, according to the specified course of action.

HARDWARE

HOMER system is composed of electronic components - sensors and actuators, that were selected so that the smallest number of them covered the greatest area of functionality.

All this was done so the selection of components and their installation was as simple and as quick as possible.

A significant amount of functionality is also implemented through the software solutions.

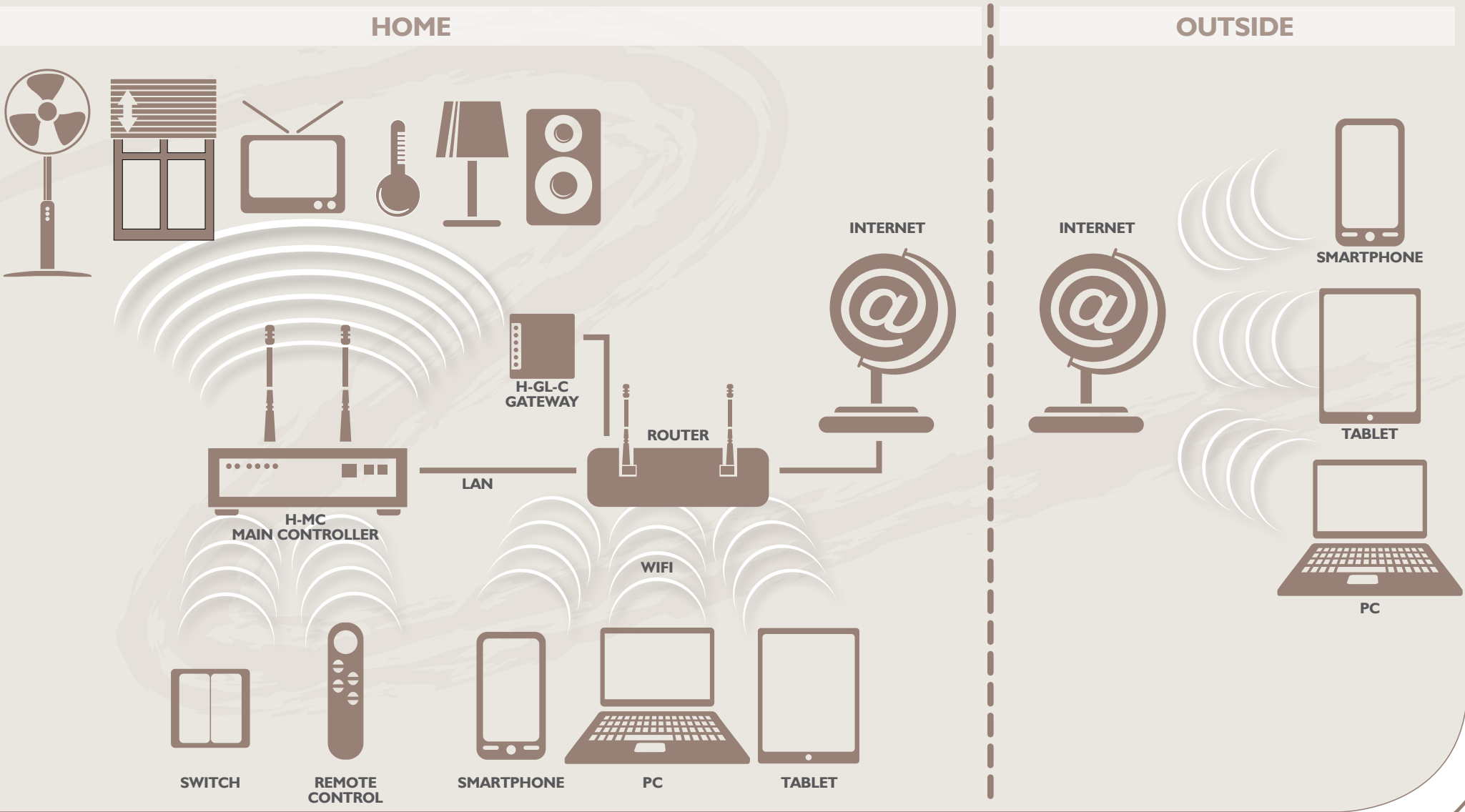
The product range of the HOMER System is constantly increased including new functionalities. Here's a list of basic elements of the HOMER System

Name	Symbol
Main controller	H-MC
HOMER Gateway	H-GL
Double transmitter	H-S2-FB
Fourfold transmitter with temperature sensor	H-S4L2T1-FB
Temperature and light sensor	H-T1X1-FB
8 key remote control	H-S8-CB
Motion sensor	H-P1-CB
Motion sensor with temperature sensor	H-P1T1-CB
Dimmer double transmitter	H-D1S2-F
Double relay	H-R2-F
Triple low-voltage PWM switch	H-PWM3-F
Re-transmitter	H-E2-F
Double dimmer double transmitter	H-D2S2-M
Double relay double transmitter	H-R2S2-M
Five-fold relay	H-R5-M
Six-fold	H-S6-M
IR module	H-IR1-C

Technical details of the elements listed above can be found on the product sheets later in this booklet. To view the latest offers please visit

www.homersystem.com

HOW IT DOES WORK?



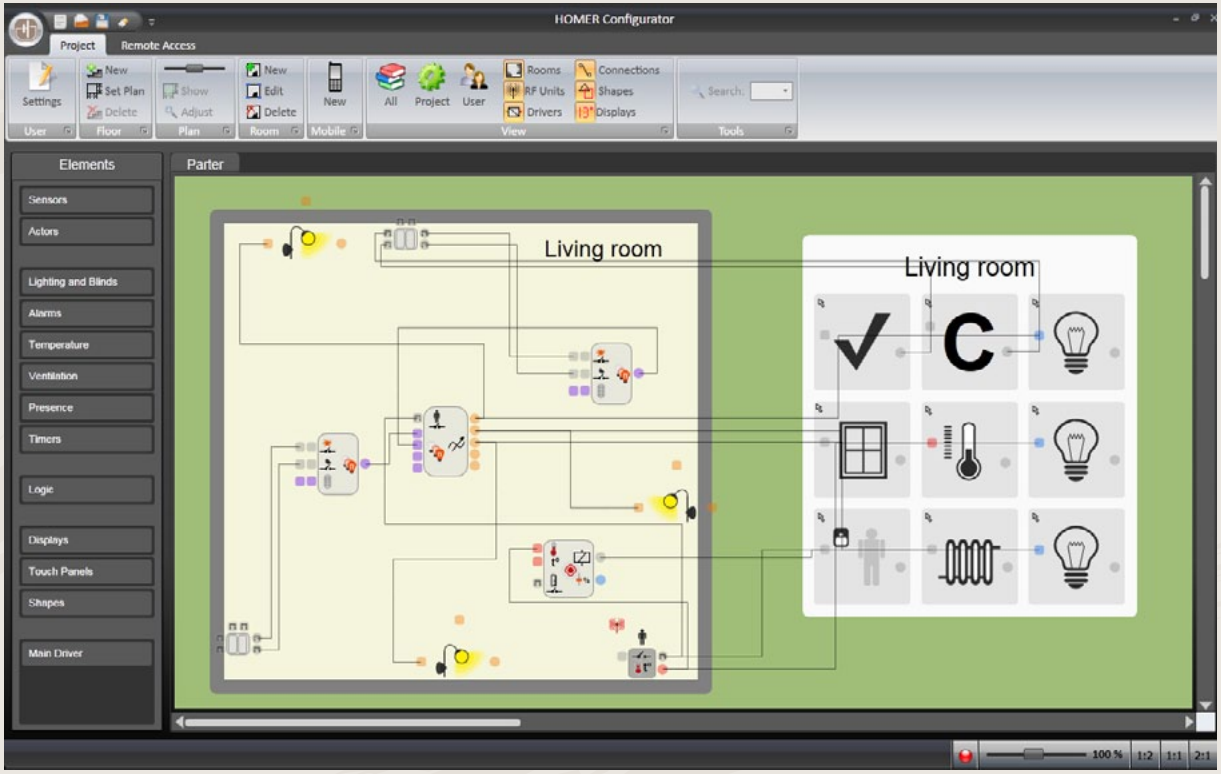
SOFTWARE

The main idea: I have time to figure out what my house could do for me and not how to do it Features of the software has been selected in such a way that the time dedicated for the work was used primarily to determine what functions of the house can serve its users. The process of „how to do it" was maximally simplified .

The software delivered with HOMER System consists of the two main tools:

HOMER Configurator allows you to configure the System

HOMER Remote Control allows remote access to the facility



HOMER CONFIGURATOR

Using Homer Configurator, you can:

- Make a project of the system
- Configure HOMER devices
- Analyse and diagnose the implemented solutions.

Visual programming by drag-and-drop

The user interface - a unique solution of visual programming of elements. It simplifies the creation of functions of system devices very much, also in relation to competitive solutions.

The Homer Configurator Tool consists primarily of:

- Project Toolbar
- System Menu
- Project Window - the main work area

How to create a system design?

3 STEPS TO GO!

Building a project is extremely friendly, which is emphasized by all the people using Homer Configurator. They're easy to learn and develop.

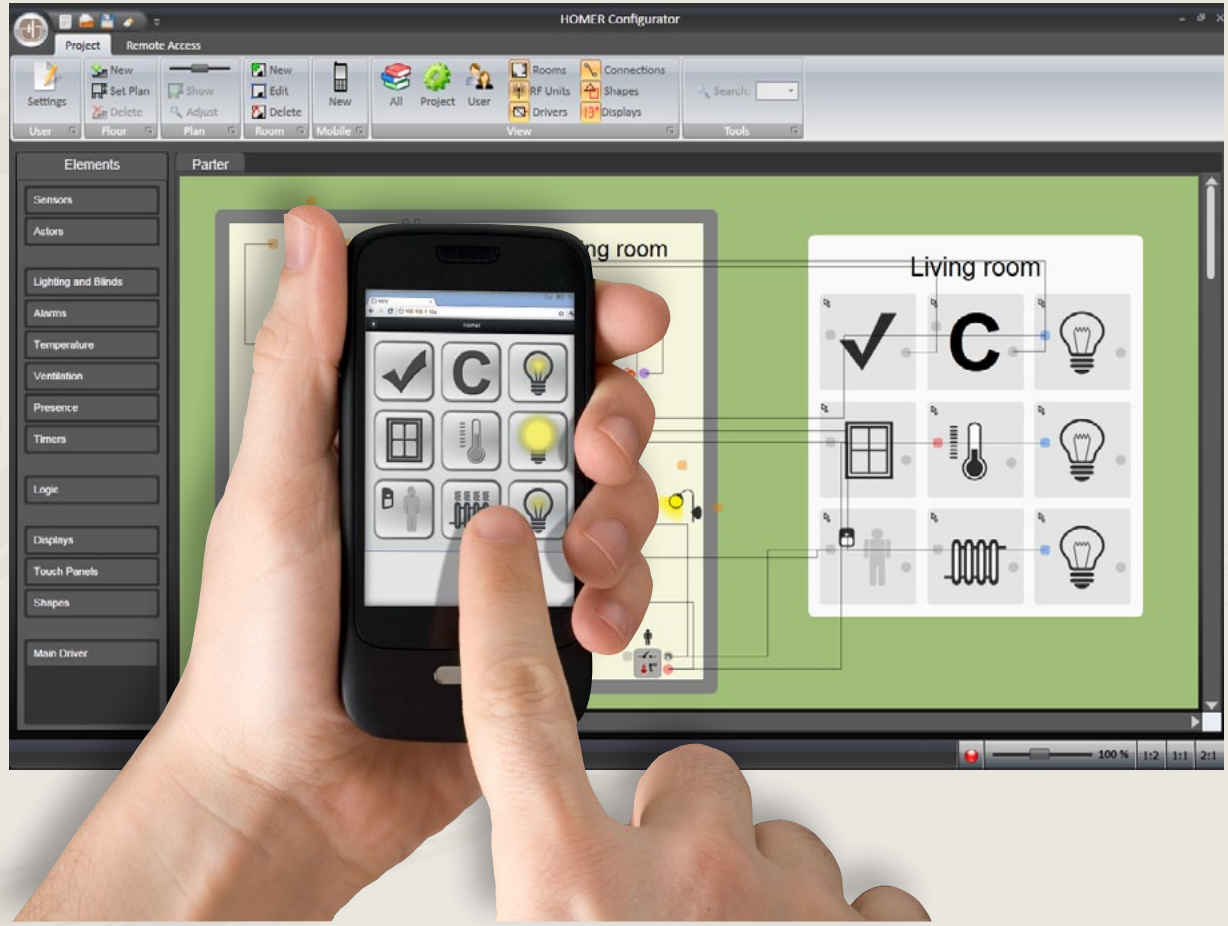
STEP 1 - CREATING A SYSTEM DESIGN

Drawing the horizontal projection of the building using the tools and putting on it the icons of the system components. All this by drag-and-dropping the device icons from the menu to the project work area in the places corresponding to their physical location, for example, a point of light, a switch.

STEP 2 – ASSIGNING FUNCTIONALITY

We connect icons on the screen, giving them the functions and relationships according to your preference.

An example: To the selected icons of some points of light we assign a specific light intensity, and using a line, we connect every point with the push-button icon of the wall switch. The first lighting scene is ready!



STEP 3 – ASSOCIATING ICONS AND PHYSICAL ELEMENTS

Device icons are now associated with their physical counterparts, e.g. switch, dimmer. This process takes 5 seconds for a single device. After associating that what works on a screen of Homer Configurator works also through the physical devices. The only thing to do is to install the devices in the building.

HOMER REMOTE CONTROL

Homer Remote Control enables remote control over a project already working.

It allows us through the software remotely control and supervise the system operation.

Through the Homer Remote Control we can check the status of sensors and actuators, the time of their excitation, the action, the value to read, for example, room temperature, the time when the last movement was recorded in a room, whether the specific point of light is turned on.

We can also remotely control an object, while adjusting temperature, turning on and off equipment, lighting scenes, pre-determined sequences of events, such as simulation of somebody's presence in the building.

BOTH TOOLS HOMER CONFIGURATOR HOMER REMOTE CONTROL

have been thought through so all activities, from designing, through programming, to supervise the work of the system were maximally integrated to with each other, yet still clear.

This makes that using this software by the user or technician is intuitive and very easy.

WHAT DOES HOMER IS BASED UPON?

All the information in the HOMER system is transmitted wirelessly. The development of mobile phones and wireless Internet, has opened access to the safe and reliable exchange of information by radio. With the massive use, wireless connections, unlike cable, are cheaper, and in addition they are flexible and do not require any maintenance. In this situation, there is no reasonable justification for the use of wires.

WHAT DOES HOMER SYSTEM WORK WITH?

In contrast to many other systems, HOMER is a friend of all. It works with standard equipment of different manufacturers (switches, sockets, etc.). Thanks to that, the modernization of the classical system does not require hardware replacement. In addition, the actuators have many types of outputs as relay contact, 230V AC dimmer, analogue output 0-10V, and others, to easily implement the integration of a variety of home installations and equipments.

HOW DOES HOMER SYSTEM IS EXPANDED?

Wireless communication and modular design allow for adaptation of HOMER system to the growing expectations of the users. Increasing the functionality and applications is possible at any time by adding further elements of the system to include new rooms or functions such as adding a roller blinds control, external lighting etc. An example of a staged expansion of HOMER system is also possibility to install it at the stage of construction of the house, in a form of a wireless alarm system with notification via GSM and preview of detectors' status through the Internet. Along with the construction stages some new features can be added to the System.

OPENNESS ...

With the established system structure, HOMER is open to include devices or systems existing on the market, as well as those that will appear on it.

HOW DO YOU INSTALL HOMER SYSTEM?

System designers put emphasis on reducing the installation and configuration. A revolutionary solution adopted well known in information technology - Visual Configuring. Thanks to that, the installer

- Does not need programming skills
- Requires only the skills to read and draw diagrams

Configuration boils down to making a simplified drawing of the object (house) together with the devices and making connections between them using drag-and-drop technique. Such a drawing is converted, with one click, into:

- Operating functionality
- Visualization, both local (USB, LAN) and global (Internet)
- Technical documentation for those who want to make changes or expand the system.

All this is stored in the main control driver on an SD memory card, to assure that we will not lose the configuration or confuse versions.

BENEFITS TO THE COMPANY THAT INSTALLS THE HOMER SYSTEM

Savings, higher productivity

Thanks to the HOMER system, you save time and money. How? The answer is very simple. Secure radio link makes you not to put kilometres of cables. System configuration is done from the keyboard. Technical faults localize themselves automatically. Connections do not require maintenance. Time spent on the construction, configuration and maintenance is very short.

SECURITY

The investment is safe because the costs for you and the customer are low. The System Provider offers free training and, what is very important, makes available free of charge standard license for the professional software for the installer. The only additional equipment necessary to do the set up is a laptop. Thanks to the HOMER System compatibility with all devices you will not be dependent on the supplies from one manufacturer.

COMFORT

Any new installation of the HOMER System starts your partnership with the customer. First, at the design stage then during installation and configuration. It can be continued as a Customer Service when expanding the system within customer's facility, or its reconfiguration.

The functionality of using HOMER system is unique. What does it mean? Such activities as the expansion of some functions, fault diagnosis, changing parameters and making other maintenance activities is possible through internet connection. With the HOMER System you do not have to be at your customer's place physically to handle it professionally.

AVAILABILITY

With the price of HOMER System, which is comparable with a traditional installation, you can offer your customers the latest technology for facility management of the entire building. It is simple and intuitive to use. In addition, the system may be installed just as easy in new buildings as well as in already inhabited ones.

Linking the achievable price of the system for the customer with your professional skills, enhanced with Homer System training, is the true potential and opportunities for developing your business.

PRODUCTS

Name: Main controller

Symbol: H-MC

DESCRIPTION

The H-MC is a central control device. It performs communication functions with radio elements of the system, local network and the Internet and GSM mobile telephony system. It stores and executes a program that controls the entire system. It serves data for visualization and receives data to control installation. It has an embedded real time clock, an uninterruptible power supply system, and a work quality control systems. It is programmed using a free visual application called Homer Configurator via USB or LAN / WAN. It is characterized by very low power consumption; an average of 6 W and noiseless operation.

Power supply	DC12V/500mA (AC230V power supply included)
Power supply range	-20% +10%
Nominal power consumption / battery life	6 W / -
Inputs	1×LAN RJ45,1×USB, 1×GSM, 2×Transceiver 868MHz
Outputs	-
Installation	standalone
Size	238×150×50 mm

Name: HOMER Gateway

Symbol: H-GL

DESCRIPTION

The H-GL is a server based on the Linux platform, which allows simultaneous access to the system of more than one application over TCP / IP. Depending on the purchased version of the software, control of the system can take place from a free dedicated app for iPhone / IPAD / Android / Windows or from a web browser on any hardware platform. The server extends the possibility to control the system in both the local area network and through the Internet. The device is plug & play and no set-up is required. It is connected to a local network together with the control unit H-MC. It is characterized by very low power consumption; only 4 W and noiseless operation.

Power supply	DC12V/330mA (AC230V power supply included)
Power supply range	-20% +10%
Nominal power consumption / battery life	4 W / -
Inputs	1×LAN RJ45, 3×USB
Outputs	-
Installation	standalone
Size	38×85×86 mm

Name: Double transmitter

Symbol: H-S2-FB

DESCRIPTION

The H-S2-FB is an element used to convert electrical signals, to the binary information in the system.
This item is a one-way connector between the physical electrical signals and the virtual control logic.
Communication is done by radio.
The H-S2-FB element has two physical inputs for connecting two monostable electrical dry contacts.
Each shorting and opening of the contacts is sent to the system.
For the software, this element has two digital outputs (binary) separately for each contact.
Shorting causes a logical one on output, and opening makes a logical zero.

Power supply	battery: 2×AAA
Power supply range	2,5 – 3,3 V
Nominal power consumption / battery life	- / 24 month *
Inputs	2×contact
Outputs	-
Installation	inside wiring box
Size	53×25×19 mm

* Battery life may vary based on usage and temperature conditions

Name: Fourfold transmitter with temperature sensor

Symbol: H-S4L2T1-FB

DESCRIPTION

The H-S4L2T1-FB is designed for ambient temperature measuring and sending it into the system as well as converting the electrical signals to the binary information in the system. In addition, it has LEDs used to change information from the system into the light signals.

The element is a bi-directional connector between the virtual control logic, and the physical world.

Communication is done by radio.

The H-S4L2T1-FB includes a digital temperature sensor connected to the system by a 10cm cable.

Temperature measurement is carried out every 30 seconds and sent to the system.

It also has four electric inputs for connecting four monostable potential-free contacts.

Each shorting and opening of the contacts is sent to the system.

For the software, this element has a temperature output and four digital outputs (binary) separately for each contact.

Shorting a contact causes a logical one on output, and opening makes a logical zero.

The element also has two byte inputs, which are used to control the LEDs.

In the basic configuration, you may connect a binary signal (two states) to the input.

Each time, after the openings of any contact (releasing the button), information, from the LED control input, is sent to this element.

If there is a logical state of “one” on the input then the LED flashes for 10 seconds.

If there is a logical state of “zero” on the input then the LED does not light up.

The H-S4L2T1-FB is particularly suitable for a room temperature control system.

The temperature sensor is usually placed under the key buttons.

The buttons can be used to control heating and lighting options.

Power supply	battery: 2×AAA
Power supply range	2,5 – 3,3 V
Nominal power consumption / battery life	- / 18 month *
Inputs	4×contact, 1×temperature measurement
Outputs	2×signal LED
Installation	inside wiring box
Size	53×25×19 mm

* Battery life may vary based on usage and temperature conditions

Name: Temperature and light sensor

Symbol: H-T1X1-FB

DESCRIPTION

The element is used for the measurement of temperature and light intensity and entering these values into the system by radio.
The temperature and intensity sensors are sealed inside the housing.
Measurement of light intensity is carried out through a hole in the casing.
Temperature measurement is subject to a time delay due to the housing.
For the software, this element has a temperature output and an illumination output.
The H-FB-T1X1 is particularly well suited to support the room temperature control system and automatic lighting controls carried out by measurements outside of the building.

Power supply	battery: 2×AAA
Power supply range	2,5 – 3,3 V
Nominal power consumption / battery life	- / 18 month *
Inputs	1×temperature measurement, 1×lighting measurement
Outputs	-
Installation	inside wiring box
Size	53×25×19 mm

* Battery life may vary based on usage and temperature conditions

Name: 8 key remote control

Symbol: H-S8-CB

DESCRIPTION

The H-S8CB is used to remotely control executive elements of the system with eight keys, who's selection converts the electrical signal to the binary information in the system.

In addition, it has LEDs by which information from the system transforms into light signals.

LEDs can indicate confirmation of the transmission or the state.

The element is a bi-directional connector between the virtual control logic and human.

Communication is done by radio.

The element has eight monostable buttons.

Each pressing or releasing of the button is sent to the system.

For the software, this element has easy to use modes of operation, designed to minimize set-up time.

Power supply	battery: 2×AAA
Power supply range	2,5 – 3,3 V
Nominal power consumption / battery life	- / 18 month *
Inputs	8×button
Outputs	2×LED signal
Installation	standalone
Size	154×45×16 mm

* Battery life may vary based on usage and temperature conditions

Name: Motion sensor

Symbol: H-P1-CB

DESCRIPTION

This is a low current passive motion detector. The sensor detects persons through detecting changes in the infrared radiation. Each change is transmitted to the system. For the software, this device has binary output. The detection of a person sets the output to a logical “one”. In the idle state, there is logical “zero” on the output. The element is powered by batteries. Signal transmission is done by radio. Typical applications: the control of lighting, heating, air conditioning and work in the alarm system.

Power supply	battery: 2×AAA
Power supply range	2,5 – 3,3 V
Nominal power consumption / battery life	- / 12 month *
Inputs	1×Motion detection
Outputs	-
Installation	wall, ceiling, standalone
Size	112×66×45 mm

* Battery life may vary based on usage and temperature conditions

Name: Motion sensor with temperature sensor

Symbol: H-P1T1-CB

DESCRIPTION

This element is a combination of motion detector with a temperature sensor. Low current passive motion sensor detects persons through the detection of changes in infrared radiation.

A signal change of the motion sensor and the temperature reading is asynchronously transmitted to the system.

For the software, this element has a binary output of motion sensor and temperature output.

Detection of persons sets up a logical "one" at the output of motion detector.

In the idle state, the output is set to a logical "zero".

The output temperature is burdened by inertia due to the sensor housing.

For this reason, the H-P1T1-CB is suitable for measuring when the rate of change of temperature is not greater than 1 ° C / hour.

Battery powered. Signal transmission takes place by radio.

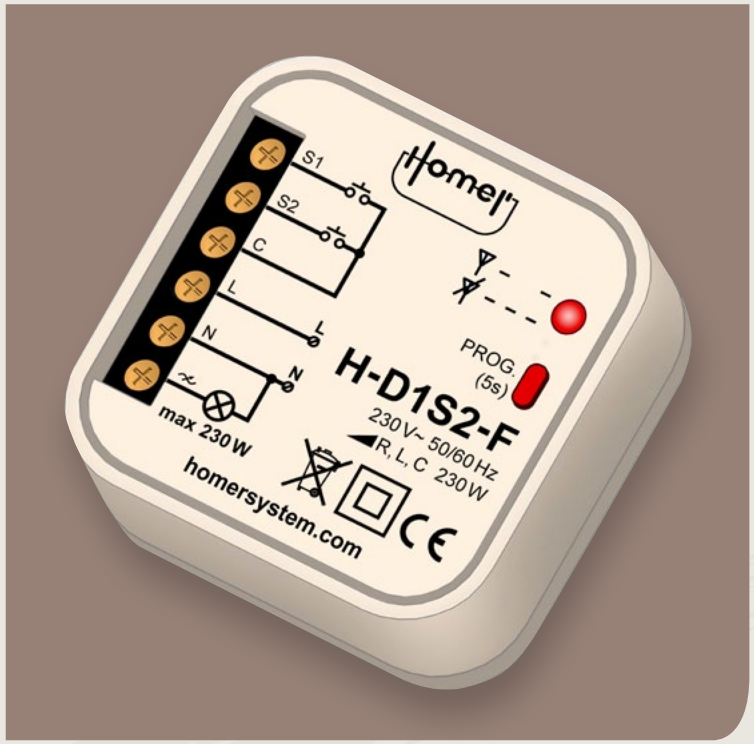
Typical applications: control of lighting, heating, air conditioning and work in the alarm system.

Power supply	battery: 2×AAA
Power supply range	2,5 – 3,3 V
Nominal power consumption / battery life	- / 12 month *
Inputs	1×motion detection, 1×temperature measurement
Outputs	-
Installation	wall, ceiling, standalone
Size	112×66×45 mm

* Battery life may vary based on usage and temperature conditions

Name: Dimmer double transmiter

Symbol: H-D1S2-F



DESCRIPTION

The element H-D1S2-F is a combination of a dimmer and two contact inputs.

It controls the AC230V receiver, a maximum power of 230W, and is used to convert electrical signals into binary information (two-state) in the system.

The load can be resistive (incandescent lamps), inductive components (AC motors and transformers) and capacitive (fluorescent lamps).

Power adjustment is done on the principle of phase modulation with power-off in the phase.

The H-D1S2-F has two electrical inputs for connecting the potential-free contacts.

The information about each shorting or opening of a contact is sent to the system.

The unit has electronic overcurrent protection in the case of a short-circuit or overload.

In addition, a built-in temperature sensor protects the device against overheating.

The element is a bi-directional connector between the virtual control logic, and physical electrical signals.

Communication is done by radio.

For the software, the H-D1S2-F has four identical inputs of a LIGHT type reading information about the power level and the activation time.

Its control algorithm determines the maximum power read from all inputs and together with the activation time controls a power modulator.

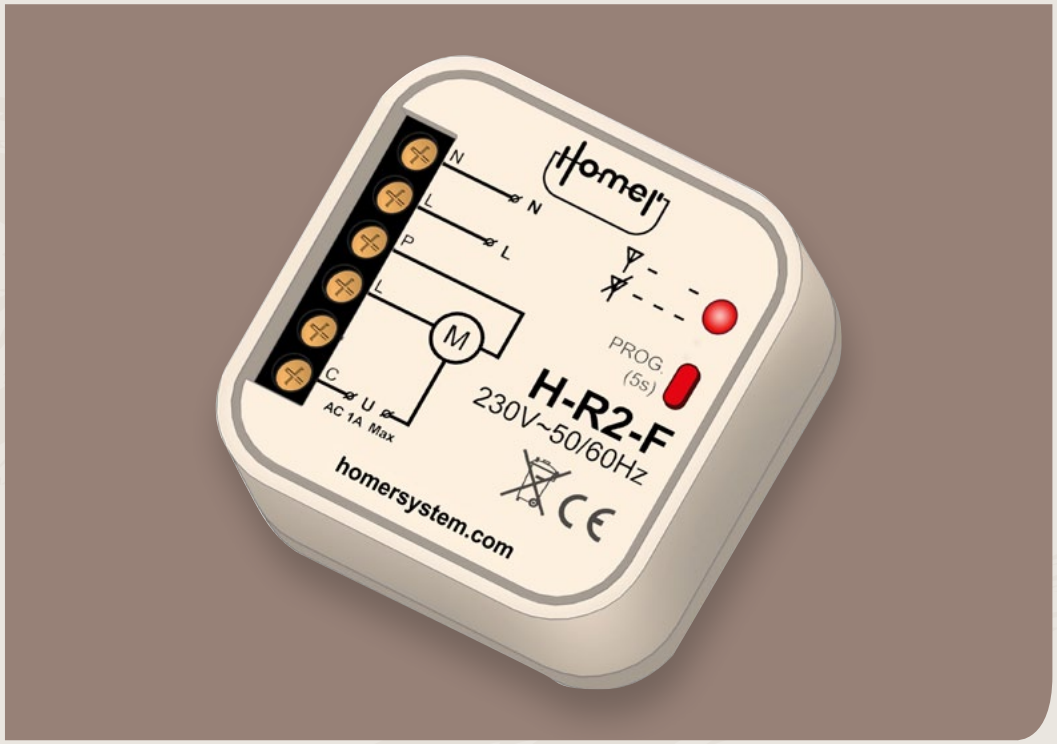
It also has two digital outputs (binary), separately for each contact.

The dimmer can work in one of the eight operating modes, selected in the configuration program. The modes are designed for various types of loads, which can be controlled.

Power supply	AC 230V/50Hz
Power supply range	-20% +10%
Nominal power consumption / battery life	0,4 W / -
Inputs	2×contact
Outputs	1×modulated output power AC 230V/1A switching at zero
Installation	inside wiring box
Size	48×48×22 mm

Name: Double relay

Symbol: H-R2-F



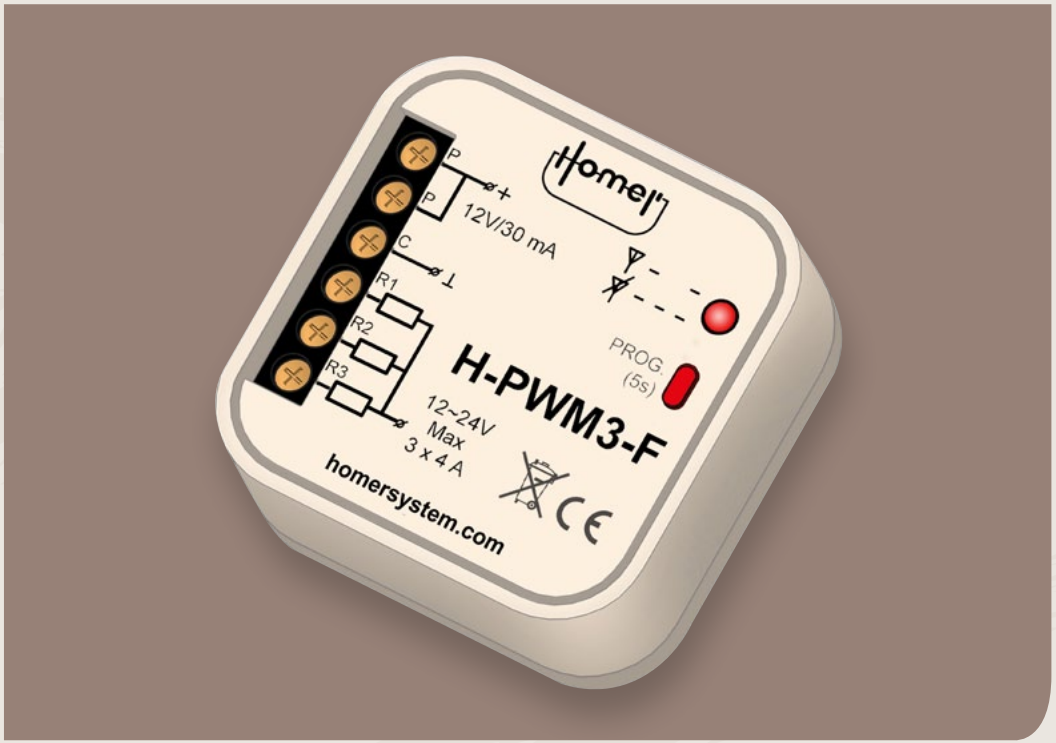
DESCRIPTION

The element H-R2F contains two relays for switching two-way electrical devices.
The contacts of one relay switch the power; contacts of the other relay change direction.
Such a combination in hardware prevents powering both outputs simultaneously.
The built-in temperature sensor protects the device against overheating.
The element is a wireless (radio) connector between the virtual control logic, and physical control of electric receivers.
For the software, the H-R2F has two binary inputs, one for switching power supply, the second for changing direction.
This element is particularly suitable for controlling roller blinds and other devices where you cannot simultaneously switch on two circuits.

Power supply	AC 230V/50Hz
Power supply range	-20% +10%
Nominal power consumption / battery life	0,4 W / -
Inputs	-
Outputs	2×relay connectors AC230V/4A
Installation	inside wiring box
Size	48×48×22 mm

Name: Triple low-voltage PWM switch

Symbol: H-PWM3-F



DESCRIPTION

The element H-D3F12V is used to control the low voltage receivers powered from an external power supply (24V max.)

Power adjustment is done by impulse width modulation of the impulse switching the receiver (PWM).

Frequency rate is adjusted between 0Hz and 2kHz.

The built-in temperature sensor protects the device against overheating.

The item is a one-way connector between the virtual control logic, and physical electrical signals.

Communication is by radio.

For the software, the H-D3F12V has three pairs of four identical inputs of the LIGHT type, reading information about the power and the activation time.

The control algorithm of the component, determines the maximum power read from all inputs and together with activation time controls power loads.

H-D3F12V especially suited to drive LEDs, switching electromagnetic locks and other low-voltage actuators.

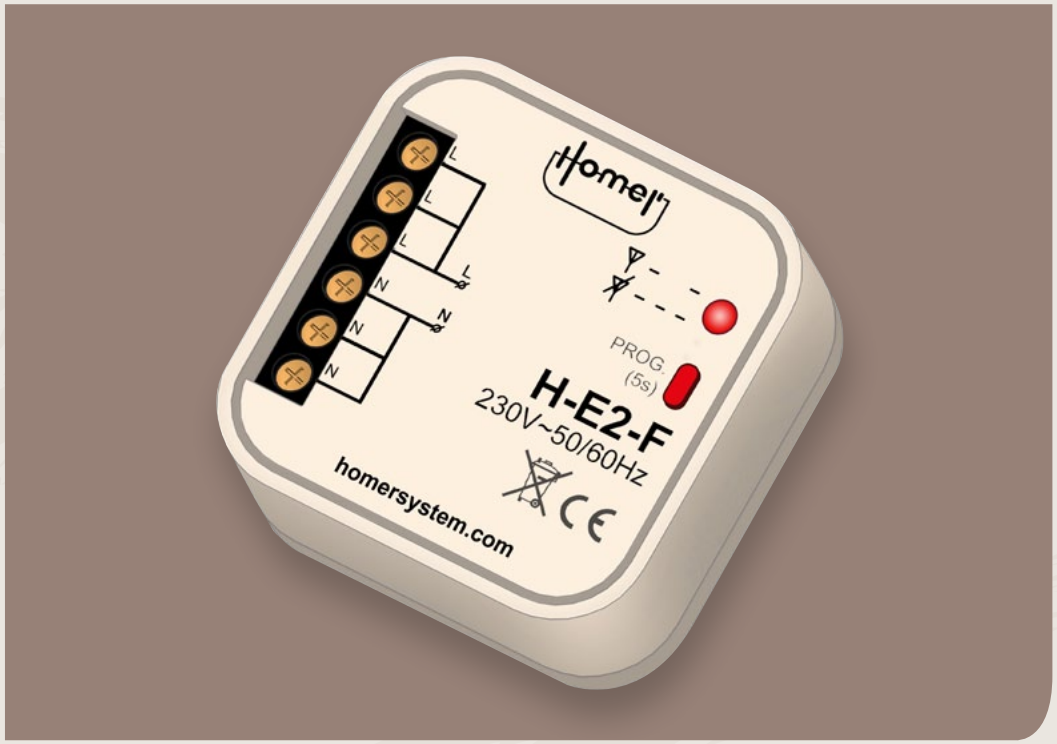
Power supply	DC 12V
Power supply range	-20% +10%
Nominal power consumption / battery life	0,4 W / -
Inputs	-
Outputs	3×PWM 4A (max 24V)
Installation	inside wiring box
Size	48×48×22 mm

Name: Re-transmitter

Symbol: H-E2-F

DESCRIPTION

The H-E2F element is designed to increase the range of associated components within the HOMER system.
It simultaneously listens for traffic on two channels (basic and working).
In case of no response from the message recipient, it repeats the message again.
In this way it mediates in the commutation of distant system components.
For the software, the H-E2F requires only registration within the system.



Power supply	AC 230V/50Hz
Power supply range	-20% +10%
Nominal power consumption / battery life	0,4 W / -
Inputs	-
Outputs	-
Installation	inside wiring box
Size	48×48×22 mm

Name: Double dimmer double transmitter

Symbol: H-D2S2-M

DESCRIPTION

The H-D2S2-M is a combination of two light dimmers and two contact inputs.

It controls the AC230V receivers each 230W of maximum power, and is used to convert electrical signals into the binary (two-state) information in the system.

The load can be resistive (incandescent lamps), inductive (AC motors and transformers) and capacitive (fluorescent lamps).

Power adjustment is done on a phase modulation with switching off during the phase.

The H-D2S2-M has two inputs for connecting the electric dry contacts.

The information about each shorting or opening of a contact is sent to the system.

The unit has electronic overcurrent protection in the event of a short circuit or overload.

In addition, a built-in temperature sensor protects the device against overheating.

The element is a bidirectional connector between the virtual control logic and physical electrical signals.

Communication is done using radio waves.

For the software, the H-D2S2-M has two pairs of four identical inputs of the LIGHT type reading information about the power and the activation time.

The component control algorithm, determines the maximum power read from all inputs and with activation time controls the power modulator.

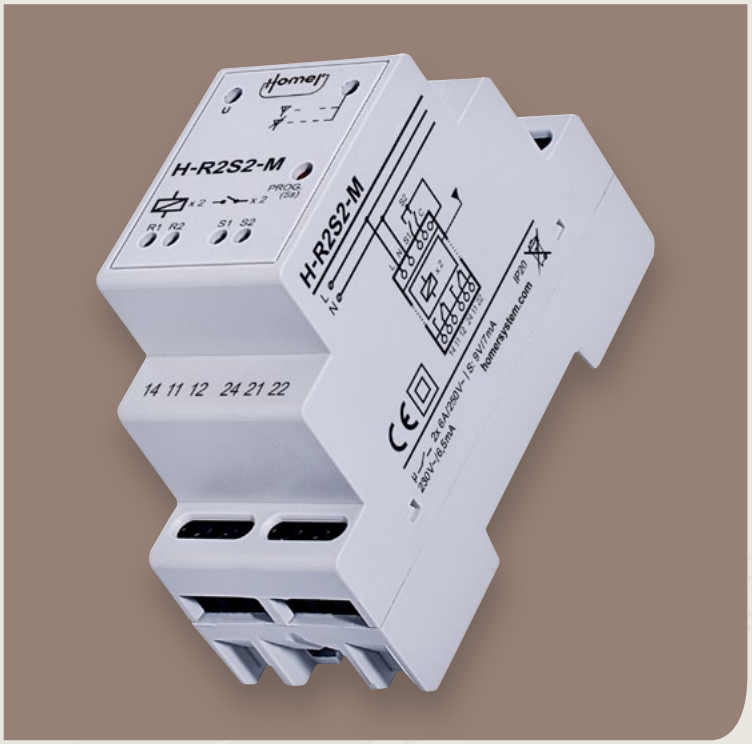
It also has two digital (binary) outputs separately for each contact.

Power modulators can operate in one of eight operating modes, selected in the configuration program, adapted to various types of loads, which can be controlled.

Power supply	AC 230V/50Hz
Power supply range	-20% +10%
Nominal power consumption / battery life	2 W / -
Inputs	2×contact
Outputs	2×modulates output power AC 230V/1A switching at zero,
Installation	rail TH-35 / EN 60715
Size	3-modules

Name: Double relay double transmitter

Symbol: H-R2S2-M



DESCRIPTION

The H-R2S2-M is a combination of two relays and two contact inputs.

The relays can switch on any electrical circuits, and the contact inputs convert electrical signals into the binary(two-state) information in the system.

The load of the contacts can be resistive, inductive or capacitive, both in DC circuits and AC.

The H-R2S2-F has two electrical inputs for connecting the dry contacts.

The information about each shorting or opening of a contact is sent to the system.

The built-in temperature sensor protects the device against overheating.

The element is a bidirectional connector between the virtual control logic, and physical electrical signals.

Communication is done by radio.

From the software side, for the operation of relays, this element has two binary inputs.

In the installer's settings you set separately for each relay if it is to be normally open (NO) or closed (NC).

In the NO mode, entering the logical "one" on the input will cause closing the contact, and a logical "zero" - its opening.

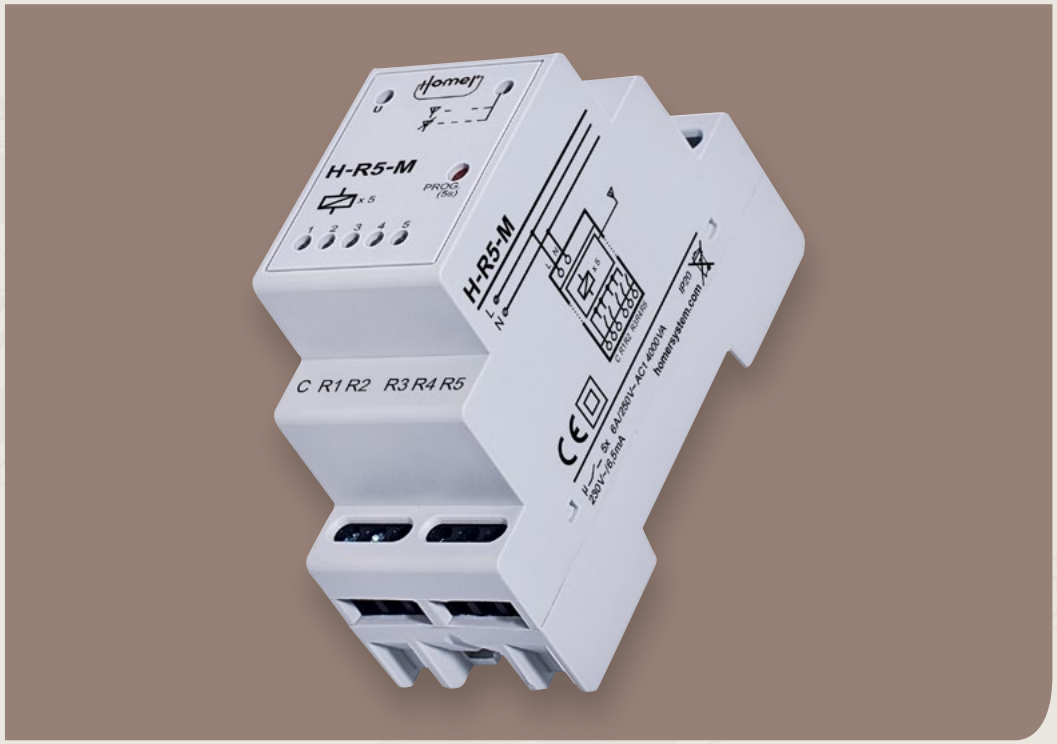
In the NC-mode the action will be reversed.

For the reading of the states of the contact inputs, the element has two binary outputs, containing information on contact states, connected to the physical inputs of this element.

Power supply	AC 230V/50Hz
Power supply range	-20% +10%
Nominal power consumption / battery life	2 W / -
Inputs	2×contact
Outputs	2×relay contacts AC230V/4A
Installation	rail TH-35 / EN 60715
Size	2-modules

Name: Five-fold relay

Symbol: H-R5-M



DESCRIPTION

The H-R5-M contains five relays for switching on electrical devices powered from a common power supply.

All the relays have one outlet of closing contact connected to the common wire.

The H-R5-M can power the DC and AC receivers.

The built-in temperature sensor protects the device against overheating.

The element is a wireless (radio) connector between the virtual control logic, and physical control of the electric receivers.

For the software, the H-R5-M has six logical inputs.

In the installer's settings you can set, separately for each relay, if it is to be normally open (NO) or closed (NC).

In the NO mode, entering the logical "one" on the input will cause closing the contact, and a logical "zero" - its opening.

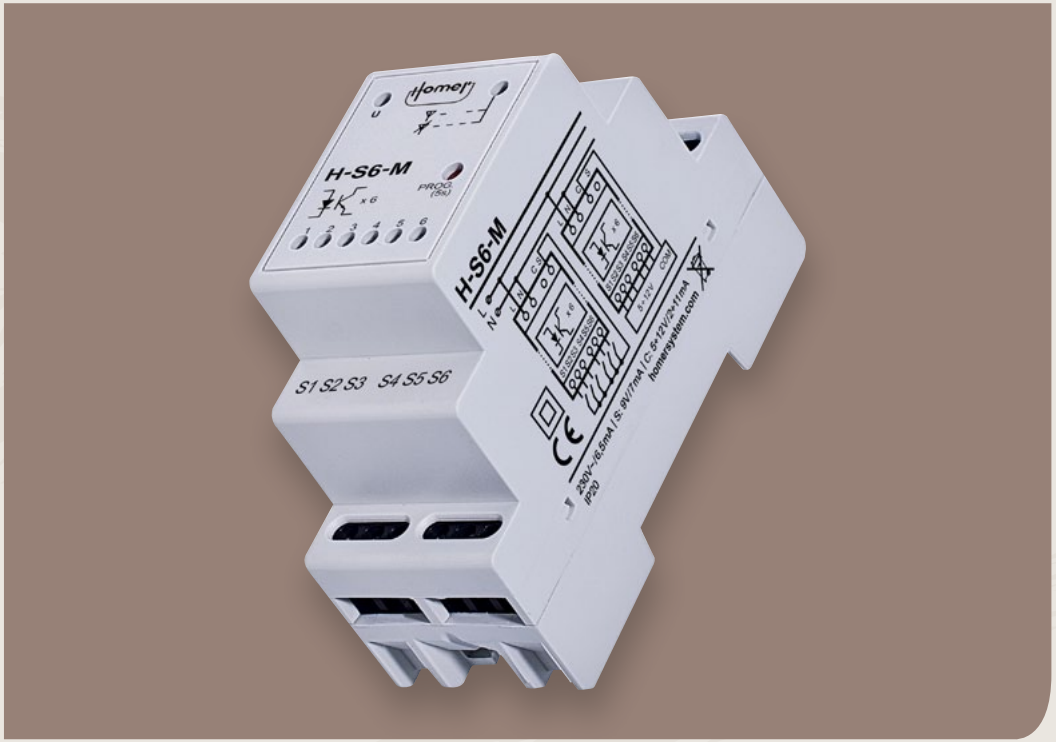
In the NC-mode the action will be reversed.

This element also has five logical outputs that inform about the real state of relays.

Power supply	AC 230V/50Hz
Power supply range	-20% +10%
Nominal power consumption / battery life	2 W / -
Inputs	-
Outputs	5×relay contacts AC230V/4A
Installation	rail TH-35 / EN 60715
Size	2-modules

Name: Six-fold

Symbol: H-S6-M



DESCRIPTION

The element is used to convert electrical signals into binary information in the system.
It can operate in two modes.
To its inputs, you may connect either dry contacts or voltage signals of any polarization.
Use jumper to change the mode
The item is a one-way connector between the physical electrical signals, and a virtual control logic.
Communication is done by radio.
The element has six physical inputs.
Any change in the input state is sent to the system.
For the software, the device has six digital outputs (binary) for each physical input respectively.
The shorting of a contact or providing an input voltage (depending on the mode), causes a logical one on the output, and on the front panel the red LED will be lit.
Accordingly, the opening of a contact, or providing voltage of 0V gives a logic zero on outputs and switches the diode off.
Each output may be negated by making changes in the user settings.

Power supply	AC 230V/50Hz
Power supply range	-20% +10%
Nominal power consumption / battery life	2 W / -
Inputs	6×contact or voltage
Outputs	-
Installation	rail TH-35 / EN 60715
Size	2-modules

Name: IR module

Symbol: H-IR1-C

DESCRIPTION

H-IR1-C is designed to receive commands from the radio / TV remote controls and sending commands to these devices.

This element is able to decode the signal from the remote control and send information about this fact to the system and change the command from the system to send specific commands to the radio and TV equipment.

This element allows you to gain full control over the radio / TV remote controls.

For the software, the element has 16 inputs and 16 digital outputs.

Giving a signal on the input generates an infrared code for the electronic device assigned to the input.

If the receiving diode of the device receives the message from the infrared remote and finds compliance with the assigned device to one of the outputs, then on the output there will be a signal that can be freely used.

Power supply	AC 230V/50Hz
Power supply range	-20% +10%
Nominal power consumption / battery life	0,4 W / -
Inputs	1x infrared receiver
Outputs	1x infrared transmitter
Installation	standalone
Size	100×100×46 mm

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