

hotel

AMPIO

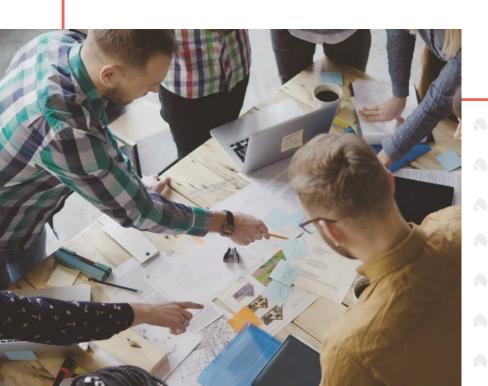
HISTORY AND BRAND

It all started in 1997, when we first took up manufacturing of electronics, developing alarm systems for the automotive sector. We gained extensive experience in this field, which led us to becoming one of the biggest Polish manufacturers of car alarms.

In the meantime, we have been manufacturing different kinds of electronics, including devices for PKP, SSN, Media Market, and many other companies. Our devices are made of various products' components that are manufactured not only in our region.

The Ampio brand came into existence during an audio multiplexers project.

Contrary to what one might expect, the name does not stem from alarm systems, or the automotive sector, but from audio devices. It is a combination of abbreviations of "amplituner" (ENG: AV receiver) and input/output.



Multi-platform solution/ remote managment

Smart Home LCD panel mounted on the wall, equipped with a large colour display, which gives you the ability to control yout home from any place in the world.

The status of all devices is presented in a simple form. You can control temperature, heating/ventilation, roller blinds, dates, lightning, surveillance system from a convenient place. System control becomes intuitive and natural like never before.



MOBILE APP

Your mobile phone will pay a role of a wireless house remote control, which will let you dim the lights before taking a nap, change brightness of the lights and create appropriete atmosphere before watching a movie, or play your favourite music, without lifting a finger.

You can control your whole house from your couch, garden, or even bathlub. You can switch off the lights that you had forgotten to switch off before leaving for work from your office.

Your mobile phone turns into another control centre.



Stationary control

Would you like to play with lights in your living room? Well, why not? You have to take into account a large number of switches that would have to be installed though. Where do you find space to install all of them? Other solution is to apply one of M-DOT family touch panels.

M-DOT - family



M-DOT-2 2-fields touch panel

Dimensions:

Front (glass): 90mm × 90mm* Electrical box: 60mm

- · 2 sensor fields
- · 2 backlighted RGB icons
- · 2 status RGB lights
- · Standard or individual customized icons
- · Input for 1Wire temperature sensors (up to 6)



M-DOT-4 4-fields touch panel

Dimensions:

Front (glass): 90mm × 90mm* Electrical box: 60mm

- · 4 sensor fields
- · 4 backlighted RGB icons
- · 4 status RGB lights
- · Standard or individual customized icons
- · Input for 1Wire temperature sensors (up to 6)



M-DOT-9

9-fields touch-panel

Dimensions:

Front (glass): 90mm × 90mm* Electrical box: 60mm

- · 9 sensor fields
- · 9 backlighted RGB icons
- · 9 status RGB lights
- · Standard or individual customized icons
- · Input for 1Wire temperature sensors (up to 6)



M-DOT-18

18-fields touch panel

Dimensions:

Front (glass): 90mm × 160mm* Electrical box: 60mm

- · 18 sensor fields
- · 18 backlighted RGB icons
- · 18 status RGB lights
- · Standard or individual customized icons
- · Input for 1Wire temperature sensors (up to 6)

^{*} The exact dimensions of the module depend on the variant of the glass edge finish selected when placing an order.

M-DOT - family



M-DOT-6

6-fields touch panel with a display

Dimensions:

Front (glass): 90mm × 90mm* Electrical box: 60mm

- · 6 sensor fields
- · 6 backlighted RGB icons
- · 6 status RGB lights
- · Standard or individual customized icons
- · Colour LCD display
- · Input for 1Wire temperature sensors (up to 6)



M-DOT-M6

6-fields touch panel with a display with swipeable screens

Dimensions:

Front (glass): 95mm × 95mm* Electrical box: 60mm

- · 6 sensor fields
- Colour LCD display with 2 or 12 swipeable screens (depending on model)
- · Standard icons
- · Colour LCD display
- · Input for 1Wire temperature sensors (up to 6)



M-DOT-M6 ALU

6-fields touch panel with a display with swipeable screens and an aluminium frame.

Dimensions:

Front (aluminium): 90mm × 90mm* Electrical box: 60mm

- · 6 sensor fields
- Colour LCD display with 2 or 12 swipeable screens (depending on model)
- · Standard icons
- · Colour LCD display
- · Input for 1Wire temperature sensors: (up to 6)



M-DOT-M18

18-fields touch panel with a display with swipeable screens

Dimensions:

Front (glass): 90mm × 160mm* Electrical box: 60mm

- · 18 sensor fields
- Up to 12 swipeable colour LCD screens (Depending on model)
- · 18 backlighted RGB icons
- · 12 Status RGB lights
- · Standard or individual customized icons
- · Input for 1Wire temperature sensors: (up to 6)



M-DOT-GEST

Gesture recognition panel. The device recognizes gestures: Movements up, down, left, right, Tap at the edges and central

Dimensions:

Front (glass): 90mm × 90mm* Electrical box: 60mm

- · 4 status RGB lights
- · Input for 1Wire temperature sensors (up to 6)
- · 5 gestures
- · 4 taps

^{*}The exact dimensions of the module depend on the variant of the glass edge finish selected when placing an order.

Ampio Smart Home has over 50 integrated modules to offer you highly complex and multi-functional system. Learn more about some of them.

Relay control modules/roller blinds control

SECTION SECTIO

M-REL-2s

Module M-REL-2s is a component of the Ampio Smart Home system. It can be used as 2 separate relays or roller blind module to control 1 set of roller blinds.

Technical data:

Voltage supply: 11-16V DC Current consumption: 20mA Number of relay outputs: 2

Maximum current of a single relay output: 16A Maximum switching voltage: 250V AC

Dimensions:

width: 135mm height: 110mm depth: 59mm

M-REL-8s



Module M-REL-8s is a component of the Ampio Smart Home system. It has eight independent relay outputs. It can be used as an 8 separate relay module or roller blind module to control 4 sets of roller blinds.

Technical data:

Voltage supply: 11-16V DC

Current consumption: 25mA

Number of relay outputs: 8

Maximum current of a single relay output: 16A

Maximum switching voltage: 250V AC

Number of ground detecting inputs: 8

Input for IWire temperature sensors: up to 6

Dimensions:

width: 140mm height: 110mm depth: 65.5mm

M-REL-2p



Module M-REL-2p is a component of the Ampio Smart Home system. It can be used as 2 separate relays or roller blind module to control 1 set of roller blinds.

Technical data:

Voltage supply: 11-16V DC
Current consumption: 25mA
Number of relay outputs: 2
Number of module inputs: 2
Maximum current of a single relay output: 10A
Maximum switching voltage: 250V AC
Input for 1Wire temperature sensors: up to 6

Dimensions:

width: 47.5mm height: 47.5mm depth: 22mm

Our vision

The first stages of the company's development were based primarily on meeting our own expectations regarding our houses and apartments. Our solutions have been tested many times in our places of residence. That is why we create our automation systems so that they meet our customers' expectations and are available at an affordable price.

Dimming modules



M-DIM-2s

The M-DIM-2s module is a component of the Ampio Smart Home. It is equipped in 2 smoothly adjustable output of 48V AC to 250V AC. Short-circuit protection is provided.

Technical data:

Voltage supply: 11-16V DC Current consumption: 80mA Number of relay outputs: 2 Maximum load of a single output: 150W/300W

Dimensions:

width: 35mm height: 110mm depth: 59mm

M-DIM-1p



Module M-DIM-1p is a component of the Ampio Smart Home system. It has one output that is smoothly regulated from 48V AC to 250V AC. It has also two inputs

Technical data:

Voltage supply: 11 - 16V DC
Current consumption: 35mA
Number of regulated outputs: 1
Maximum load of a single output: 300W
Number of module inputs: 2
Input for 1Wire temperature sensors: up to 6 sensors

Dimensions:

width: 47.5mm height: 47.5mm depth: 22mm

LED dimming modules

M-INOC-4p

Module M-INOC-4p is a component of the Ampio Smart Home system that can be used for switching lights on/off, controlling brightness. It can be also used to switch on/off, dim, or fully control RGB strips. Module provides 4 transistor GND-controlled outputs.

Technical data:

Voltage supply: 11 - 16V DC Current consumption: 25mA Number of OC outputs: 4 Number of inputs: 4

Maximum current of a single relay output: 5A Maximum total current of all controlled outputs: 10A

Dimensions:

width: 41mm height: 44mm depth: 16.5mm

M-OC-4s



Module M-OC-4p is a component of the Ampio Smart Home system that can be used for switching lights on/off, controlling brightness. It can be also used to switch on/off, dim, or fully control RGB strips. Module provides 4 transistor GND-controlled outputs.

Technical data:

Voltage supply: 11 - 16V DC Current consumption: 25mA Number of OC outputs: 4 Maximum current of a single relay output: 8A Maximum total current of all controlled outputs: 16A

Dimensions:

width: 35mm height: 110mm depth: 59mm

M-INOC - 8s

Module M-INOC-8s is a component of the Ampio Smart Home system and can be used for switching lights on, adjust light brightness using GND transistor signal.



Technical data:

Voltage supply: 11-16V DC Current consumption: 25mA Number of OC outputs: 8 Maximum current of a single OC output: 8A Maximum total current of all OC outputs: 32A Number of inputs: 8

Input for 1Wire temperature sensors: up to 6

Dimensions:

width: 105mm height: 110mm depth: 59mm

M-LED-p

Module M-LED-p is used as a digital controller of Ampio's LED 3W/9W lights, or you can connect third-party lights. It grants control over up to 16 LED lights.



Technical data:

Voltage supply: 11 - 16V DC

Current consumption: 25mA

Number of inputs: 4

Number of controlled OWA light points: up to 16 nodes
Input for 1Wire temperature sensors: up to 6

Dimensions:

width: 41mm height: 44mm depth: 16.5 mm

M-LED-s



Module M-LED-s is used as a digital controller of Ampio's LED 3W/9W lights, or you can connect third-party lights. It grants control over up to 16 LED lights.

Technical data:

Voltage supply: 11 - 16V DC Current consumption: 25mA Number of controlled OWA light points: up to 16 nodes

Input for 1Wire temperature sensors: up to 6

Dimensions:

width: 35mm height:110mm depth: 59mm

S-LED-I



Module S-LED-I acts as an OWA lighting bus node driver and allows for smooth brightness adjustment of current-controlled LED lighting with a maximum current consumption of 1A and rated voltage not exceeding 12V DC.

Technical data:

Voltage supply: 11 - 16V DC Current consumption: 6mA Maximum current of the current outputs load: 1A

Maximum total voltage of the current output load 12V DC

Dimensions:

width: 40mm height: 20mm depth: 16mm

S-LED-U

Module S-LED-U acts as an OWA lighting bus node driver and allows for smooth brightness adjustment of voltage-controlled LED lighting with a maximum current consumption of 8A and a rated voltage not exceeding 40V.



Technical data:

Voltage supply: 11-24V DC Current consumption: 3mA Number of OC outputs: 1 Maximum current of a single relay output: 8A

Maximum switched load voltage: 40V

Dimensions:

width: 29mm height: 20mm depth: 16mm

S-LED-I48V



Module S-LED I48V acts as an OWA lighting bus node driver and allows for smooth brightness adjustment of current-controlled LED lighting with a maximum current consumption of 1A and a rated voltage not exceeding 60V DC.

Technical data:

Voltage supply: 30-60V DC Current consumption: 5mA Maximum current of the current outputs load: 1A Maximum rated voltage of the current output load: 40V

Dimensions:

width: 41mm height: 44mm depth: 16.5 mm

S-LED-SPOT50:: LED spotlight 3W 50mm

Module S-LED-SPOT50 is a component of the Ampio Smart Home system. They are working with Ampio LED bus lighting (M-LED). Up to 16 lights can be connected to one M-LED module.



Technical data:

Voltage supply: 12V DC Current consumption: 6mA

Led type: CREE Power: 3W

Number of diodes: 3 Luminous flux: 270lm

Light colour temperature: 3000K, 4000K

Long lifespan: 50000h

Dimensions:

diameter: 50mm height: 35mm

S-LED-SPOT110: LED spotlight 9W 110mm

Module S-LED-SPOT110 is a component of the Ampio Smart Home system. They are working with Ampio LED bus lighting (M-LED). Up to 16 lights can be connected to one M-LED module.



Technical data:

Voltage supply: 12V DC Current consumption: 6mA

Led type: CREE Power: 9W

Number of diodes: 9 Luminous flux: 860lm

Light colour temperature: 3000K, 4000K

Long lifespan: 50000h

Dimensions:

diameter: 110mm height: 20mm



Module M-OC-32s is a component of the Ampio Smart Home system and can be used for controlling devices like lights, relays using GND signal from transistor output (non-PWM - only ON/OFF signal).



Technical data:

Voltage supply: 11-16V DC Current consumption: 25mA Number of OC outputs: 32

Maximum current of a single OC output: 1A Maximum switched load voltage: 40V

Dimensions:

width: 140mm height: 110mm depth: 65.5mm

Input modules

M-IN-2p

Module M-IN-2p is a component of the Ampio Smart Home system. Two device inputs enable connecting e.g., classic lighting switches, different sensors, or third-party devices.



Technical data:

Voltage supply: 11 - 16V DC Current consumption: 25mA Number of inputs: 2 Input for 1Wire temperature sensors: up to 6

Dimensions:

width: 27mm height: 23.5mm depth: 9.5mm

M-IN-11p

The device has 11 inputs short circuited to the bus power supply positive terminal, 11 low current outputs (for status LEDs), and an input for connecting Dallas DS18B20 sensors.



Technical data:

Supply voltage: 11 - 16V DC Current consumption: 25mA Number of inputs: 11 Number of LED outputs: 11 Input for 1Wire temperature sensors: up to 6

Dimensions:

width: 41mm height: 44mm depth: 16.5mm



Module M-IN-8s is a component of the Ampio Smart Home system, and can be used for connecting standard light switches or other devices like buttons, motion sensors.



Technical data:

Voltage supply: 11 - 16V DC Current consumption: 25mA Number of inputs: 8 Number of LED outputs: 8 Input for lWire temperature sensors: up to 6

Dimensions:

width: 105mm height: 110mm depth: 59mm

M-IN-16s

Module M-IN-16s is a component of the Ampio Smart Home system, and can be used for connecting standard light switches or other devices like buttons, motion sensors.



Technical data:

Voltage supply: 11 – 16V DC Current consumption: 25mA Number of inputs: 16 Input for 1Wire temperature sensors: up to 6

Dimensions:

width: 105mm height: 110mm depth: 59mm

M-IN-AC-4s



Module M-IN-AC-4s has inputs that go into an active state when they are connected to an alternating voltage in the range of $110-250 \, \text{V}$ AC. These inputs can be useful for phase presence detection or integration with devices with AC outputs, e.g. PIR or microwave presence detectors. They can also be used to connect classic light switches or other devices with potential-free contact outputs.

Technical data:

Voltage supply: 11 - 16V DC Current consumption: 25mA Number of AC input: 4

Dimensions:

width: 35mm height: 110mm depth: 59mm

M-IN-AD-8s



Module M-IN-AD-8s is used for connecting many 0-10V sensors like humidity sensors, RPM sensors and many more sensors working in 0-10V DC standard.

Technical data:

Voltage supply: 11 - 16V DC Current consumption: 190mA Number of analog inputs: 8 Input for 1Wire temperature sensors: up to 6

Dimensions:

width: 105mm height: 100mm depth: 59 mm

M-IN-PTK3p



Measuring module M-IN-PTK3p is a component of the Ampio Smart Home system and is designed to connect PT1000 sensors.

Technical data:

Voltage supply 11 - 16V DC Current consumption 35mA Number of PT1000 inputs: 3

Dimensions:

width: 41mm height: 44mm depth: 16.5mm

Integration modules



M-CON-232

Module M-CON-232 is a component of the Ampio Smart Home system. It allows to integrate RS-232-enabled devices with Ampio.



Technical data:

Voltage supply: 11-16V DC Current consumption: 15mA Communication interface: RS-232

Dimensions:

width: 35mm height: 110mm depth: 59mm





Module M-CON-485 is a component of the Ampio Smart Home system. It allows to integrate RS-485 and MODBUS devices with Ampio.

Technical data:

Supply voltage: 11-16V DC Current consumption: 15mA Communication interface: RS-485

Dimensions:

width: 35mm height: 110mm depth: 59mm

M-CON-DALI-s



M-CON-DALI-s module is used to digitally control lighting Compatible with the DALI bus. DALI is a professional interface created especially for industrial purposes to control several types of lights. One control bus can connect several types of lighting: Incandescent, luminous, and LED lights.

Technical data:

Supply voltage: 11-16V DC Current consumption: 20mA Maximum number of connected Dali devices: up to 64 lights

Dimensions:

width: 35mm height: 110mm depth: 59mm





Module M-CON-ZWAVE-s is a component of the Ampio Smart Home system. It is wireless extension in the Ampio Smart Home family. It is an integration device between the Ampio bus $system\ and\ devices\ based\ on\ wireless\ communication\ in\ the\ Z-Wave\ standard.$

Technical data:

Supply voltage 11-16V DC Current consumption 40mA Communication interface: Z-Wave

Dimensions:

width: 35mm height: 100mm depth: 59mm

M-CON-ENOCN-p



Module M-CON-ENOCN-p is a component of the Ampio Smart Home system, and is used for wireless integration with EnOcean 868 MHz radio system elements.

Technical data:

Voltage supply: 11-16V DC Current consumption: 20mA

Number of connectable devices: up to 250

Communication interface: EnOcean

Dimensions:

width: 41mm height: 44mm depth: 16.5mm

M-CON-IR



M-CON-IR is a part of the Ampio Smart Home system, to be connected to the CAN-Bus network. Each command received by the device is broadcasted to the CAN bus. This information can be used as part of the configuration of other building automation devices.

Technical data:

Voltage supply: 11-16V DC Current consumption: 10mA Communication interface: IR

Dimensions:

width: 60mm height: 60mm depth: 10mm

M-OUT-4s



The M-OUT-4s module is a component of the Ampio Smart Home system. It has four voltage outputs. The output voltage controlled within range of 0-10V DC.

Technical data:

Voltage supply: 11-16V DC Current consumption: 30mA Max. current consumption: 120mA Number of voltage analog outputs: 4

Dimensions:

width: 35mm height: 110mm depth: 59mm

M-CON-KNX-s



Module M-CON-KNX-s one of the Ampio Smart Home family is dedicated for integration between Ampio and KNX bus. The KNX system is one of the first building equipment management in the world. This standard is used by more than 400 smart home solution manufacturers.

Technical data:

Voltage supply: 11 - 16V DC Current consumption: 15mA Communication interface: KNX

Dimensions:

width: 35mm height: 110mm depth: 59mm

Control modules

M-SERV-3s

M-SERV-3s module is a communication gateway for Ampio mobile applications - both within the local network and via the Ampio Cloud platform - plus, it enables IP integrations.



Technical data:

Voltage supply: 11 - 16V DC Current consumption: 250mA

Maximum current consumption: 350mA

Number of inputs: 8 Number of outputs: 8

Input for 1Wire temperature sensors: up to 6
Maximum control current of a single output: 10A
Maximum total current of all relay outputs: 30A

Dimensions:

width: 140mm height: 110mm depth: 65.5mm

M-SERV-s

M-SERV-s module is a communication gateway for Ampio mobile applications - both within the local network and via the Ampio Cloud platform - and it enables IP integrations.



Technical data:

Voltage supply: 11 - 16V DC Current consumption: 300mA

Maximum current consumption: 500mA

Number of inputs: 15

Number of relay outputs: 10

Number of OC outputs: 4

1 MLED terminal

MRT functionality

RS-232 communication interface

Power supply redundancy

Input for 1Wire temperature sensors: up to 6

RJ45 and WLAN interface RGBW lighting controller

Dimensions:

width: 160mm height: 110mm depth: 59mm

M-RT-s



Module M-RT-s is a component of the Ampio Smart Home system and is used to regulate temperature of Regulation is performed independently for a number of defined zones.

Technical data:

Voltage supply: 11 - 16V DC Current consumption: 30mA

Dimensions:

width: 53mm height: 100mm depth: 65.5mm

M-AV-AMP-s



Module M-AV-AMP-s is an audio receiver with FM radio tuner dedicated to the installation of Ampio Smart Home. It is used to add radio functionality.

Technical data:

Voltage supply: 11 - 16V DC Current consumption: 50mA Maximum output power of the power amp: 2x 15W

Maximum current consumption of the power amp: 5A Stereo line inputs: 2 Stereo line output: 1

Dimensions:

width: 88mm height: 110mm depth: 65.5 mm

M-ALARM-8s



Module M-ALARM-8s is a component of the Ampio Smart Home system. It has 32 zones which you can armed independent, 8 input for alarm, 8 output for low and high current, also this device equipped with 128 virtual input/output which you can use for reading information from CAN network..

Technical data:

Voltage supply: 18-24V DC Current consumption: 40mA Maximum current consumption: 300mA Number of outputs: 6

Number of Inputs: 8

Dimensions:

width: 160mm height: 110mm depth: 59mm

Sensors

M-SENS-2



The module can measure the following values: temperature (°C), humidity (%), pressure (hPa), air quality (IAQ), luminance (lux), sound intensity (dB).

Technical data:

Supply voltage: 11-16V DC Current consumption: 6mA

Dimensions:

width: 60 mm height: 60 mm depth: 10 mm

Redundancy module

M-RDN-5s



The power supply redundancy device is one of the elements of the Ampio Smart Home system. It allows supplying bus devices with two independent power supply units, thus significantly increasing system reliability. In case a power supply unit fails, the module indicates failure with an acoustic signal, and the bus continues to be supplied by another power source.

Technical data:

Voltage supply: 11-16V DC Current consumption: 50mA Maximum current of single CAN segment: 1A Number of CAN bus interfaces: 5

Dimensions:

width: 140mm height: 110mm depth: 65.5mm

Hotel products

M-ROOM-s

The M-ROOM-s module is a device dedicated to hotel solutions. It is a cheaper solution than the M-SERV-s module.



Technical data:

Voltage supply: 11 - 16V DC Current consumption: 20mA

Maximum current consumption: 220mA

Number of inputs: 15 Number of relay outputs: 10

Number of OC outputs: 4 RGBW lighting controller

Input for 1Wire temperature sensors: up to 6

Communication interface: RS-232,

1 MLED terminal Temperature control

Dimensions:

width: 160mm height: 110mm depth: 59mm



M-DOT-4 Hotel

M-DOT-4 hotel module is a part of the Ampio system that was created for the hotel industry and developers. On the surface, the module looks like a standard touch panel from the Ampio family, but inside, it has been fitted with an RFID card reader.



Technical data:

Voltage supply: 12 - 16 V DC Energy consumption: 55 Number of touch fields: 4

Dimensions:

width: height: depth:



M-DOT-9 RFID

Access control module is a part of the Ampio system that was created for the hotel industry and developers. On the surface, the module looks like a standard touch panel from the Ampio family, but inside, it has been fitted with an RFID card reader. The access control module has 9 sensor fields.

Technical data:

Voltage supply: 11 - 16V DC Current consumption: 25mA Number of sensor fields: 9

Dimensions:

width: 160mm height: 90mm

Wireless modules

WL-REL-2p

The WL-REL-2p module is a component of the Ampio Smart Home system. It is equipped with two relay outputs and two inputs. It is able to establish wireless connection, using its LoRa transmitter, with the M-SERV-3s.



Technical data:

Supply voltage: 110-250V AC Power consumption: 0.8W

Range: 300 m indoors, 1 km outdoors

Number of relay outputs: 2

Maximum AC current of a single relay output: 10A

AC inputs voltage: 110-250V AC

Number of inputs: 2

Dimensions:

width: 48 mm height: 47 mm depth: 22.5 mm



The WL-OC-RGBWIp module is a component of the Ampio Smart Home system. It has four power channels for smooth control of coloured lighting. Its wireless communication is established by connecting via LoRa interface with M-SERV-3s.



Technical data:

Voltage supply: 11 – 16V DC Current consumption: 20mA

Range: 300 m indoors, 1 km outdoors

Number outputs: 1 (4-colour RGBW channel)

Output load capacity: 6A Max. total load: 10A

Max. control voltage: 40V DC

Dimensions:

width: 41mm height: 44mm depth: 16.5mm

WL-REL-ROL1p

The WL-REL-ROL1p module is a component of the Ampio Smart Home system. It has two relay outputs for controlling a single roller blind, gate, or any other drive, and two inputs. Its wireless communication is established by connecting via LoRa interface with M-SERV-3s.



Technical data:

Supply voltage: 110 — 250V AC Range: 300 m indoors, 1 km outdoors Number of control outputs: 1 Output load capacity 10A

Max. Switched voltage: 110 — 250V AC

Number of inputs: 2 Power consumption: 0.8W

Dimensions:

width: 47 mm height: 47 mm depth: 21 mm





Manufacturer:

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