



FEEL CONNECTED.

Everything becomes smart, efficient,
and sustainable with
OUR ENERGY OF THINGS

SMART SOLUTIONS FOR
PHOTOVOLTAIC CONTROL
AND LIVING COMFORT

We work for a world of infinite possibilities, where every object comes to life, energy is smart and sustainable, and people live in increasingly comfortable and safe environments.

**MADE IN ITALY
MADE 4
EXCELLENCE**

There's no limit to what
we can imagine, there's
no limit to what we can
achieve.

We are 4-NOKS, a brand specializing in the design and production of electronic solutions for smart energy management. Our technologies are born from know-how consolidated over thirty years of experience in the world of electronics and are designed to make living and working environments more intelligent, comfortable, efficient, and sustainable, tapping into the infinite potential of the Internet of Things. All 4-NOKS pro-

ducts are entirely (and proudly) Made in Italy, designed by our R&D department and manufactured in Italy at our manufacturing plant. Continuous research, expertise, and precision in the design phase, combined with the certified quality of the production process, ensure that each of our devices is capable of providing excellent technical performance while ensuring installers and end users the highest levels of reliability and ease of use.

We imagined and created the first
truly complete building control
and security ecosystem.

INTERCON- NECTED ENERGIES

For integrated ecosystems



Connecting energy, comfort, and safety in a single intelligent system: this is our vision of the spaces in which we live and work, designed to be more efficient, sustainable, and welcoming.



Integrated ecosystems represent a new concept of a smart environment that integrates our solutions for the photovoltaic world with those for home & building: interconnected energy in a single smart energy management system to improve people's quality of life and achieve maximum efficiency, energy savings, and sustainability.

Our solutions for:

LIVING
COMFORT

rialto

PHOTOVOLTAIC
CONTROL

elios4you



rialto

Solutions for
HOME COMFORT

Thanks to our IoT systems with Zigbee protocol, people are already living in the future. Activate all energy-using systems and appliances within a home or any building and control them via an app or voice command to optimize levels of comfort, efficiency, and energy savings.

4 energy efficiency



energy monitoring

Our wireless devices for energy and thermal monitoring help you always keep track – from your smartphone or tablet – of the actual consumption of your systems and active loads, allowing you to manage energy more consciously.



home automation

With our IoT solutions for home automation, you can make all the systems and objects that are part of your daily life active and intelligent, and even control them via voice commands thanks to integration with Amazon Alexa and Google Assistant.



thermoregulation and comfort

Boiler, heat pump, or electric heating, but also fan coils and air conditioners: any type of heating and/or cooling system can become smart thanks to our solutions for thermoregulation and comfort.

4 solar energy

elios4you

PHOTOVOLTAIC
solutions



→ 4-noks • ELIOS4YOU line

Get the most out of your residential or industrial photovoltaic system. With our devices, you have everything under control directly on your smartphone or tablet: monitor parameters in real time, improve efficiency, and make full use of your energy through self-consumption.



photovoltaic monitoring

Our photovoltaic monitoring solutions allow you to always monitor your system's production, consumption, and exchange with the grid, so you can optimize system operation and maximize your return on investment.



photovoltaic self-consumption

4-Noks solutions for photovoltaic self-consumption are designed to allow you to use the energy produced by your panels intelligently and efficiently, reducing grid withdrawals, dependence on fossil fuels, and lower energy bills.

ENDLESS APPLICATIONS

Get smart



TRADITIONAL THERMOSTAT

Become smart by replacing it with a Rialto thermostat, without modifying your system



CHRONOTHERMOSTAT

Become smart by replacing it with a Rialto chronothermostat, without modifying your system



RADIO RADIATOR

Become smart by adding a wireless thermostatic head



RADIATOR

Become smart by adding a Rialto wireless relay



FAN COIL UNIT

Become smart with a Rialto Fandree combined with a thermostat



MOTORIZED ROLLER BLIND

Become smart with an Ekko Shutter module, maintaining the control with wall buttons



MOTORIZED SHUTTER

Become smart with an Ekko Shutter module, maintaining the control with wall buttons



LIGHTING

Light and its intensity can be managed smartly with Ekko wireless modules, maintaining control via the switch or the installed control



ELECTRIC BOILER

Become smart with a wireless module for time programming and powered by photovoltaic energy.



POWER SOCKET

Get smart using our Smart Plug 2 sockets



MOTORIZED AWNING

Get smart with an Ekko Shutter wireless module, managing your awning from an app and still keeping control with wall-mounted buttons



POOL PUMP

Filtration becomes smartly programmable, for a consistently clean pool at reduced costs



IRRIGATION

Get smart using Ekko wireless modules for intelligent activation of solenoid valves and irrigation pumps



ELECTRIC LOCK GATE/ DOOR

Get smart with an Ekko module



MOTORIZED GARAGE

Get smart with an Ekko module



ELECTRIC CAR CHARGING

Thanks to the Ekko module and the Elios4you system, you can charge your electric car by consuming energy from photovoltaic panels and Reducing charging costs



ELECTRICAL DEVICE PROGRAMMING

Automate the switching on and off of electrical appliances through smart programming



CUSTOMIZED AUTOMATIONS

Create smart logic by combining wireless devices based on your needs



SOLAR SHADES

Smart management of motorized sunshades and protection systems



FORCED VENTILATION

Intelligent control of ventilation systems to improve comfort and well-being



EXTRACTOR

Use 4-Noks technology to make the activation of your forced extraction or CMV system smart and integrate it into Rialto Active

Ekko Shutter

- Motorized Shutter
- Motorized Roller Blind
- Motorized Awning

Ekko Dimmer

- Lighting

Thermee

- Thermostat
- Chronothermostat
- Photovoltaic self-consumption



Ekko

- Management of heat pump and boiler
- Irrigation
- Electrical locking of gate/door
- Motorized overhead door
- Pool pump
- Electric radiator
- Car charging station

Thermostatic head

- Radiator

Hemree

- Automations personalized
- Consumption control of all the structure

Fandree
• Ventilconvector



A SYSTEM THAT GROWS OVER TIME

With 4-Noks, the entire home—but also the office or accommodation facility—becomes a single intelligent ecosystem, improving comfort, efficiency, and room control. Heating, lights, shutters, blinds, and any electrical appliance communicate with each other through the WhiteBox control unit and can be managed remotely, from a smartphone, or with voice commands. A modular system that can grow over time and also operate in self-consumption mode, integrating with photovoltaic systems.



Everything connects.
Everything works together.

COMFORT AND EFFICIENCY IN EVERY ENVIRONMENT

4 energy efficiency



rialto

Solutions for
HOME COMFORT



WHITEBOX 17



THERMEE 18



FANDREE 20



**THERMOSTATIC HEAD
DANFOSS ALLY™** 21



HEMREE 22



EKKO 23



SMART IO 28



REPEATER 29



SMART PLUG 2 30



GATEWAY

WHITEBOX

Rialto system control unit with app configuration for managing ZigBee devices and storing settings and operating data.

PLUS

- Instant configuration on the local network thanks to the Ethernet connection to the router
- ZigBee network coordinator with external antenna for high radio range
- Data logging of connected devices

APP FUNCTIONS

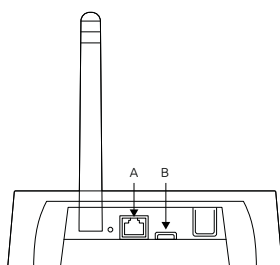
- Multibox: control multiple control units with the same app/account
- Compatible with voice assistants Amazon Alexa and Google Home
- Compatible with 4-noks® Elios4you



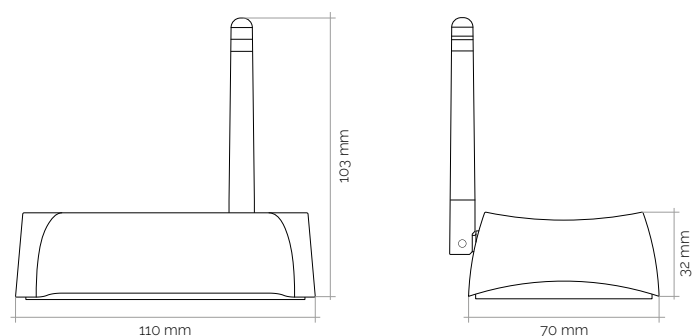
TECHNICAL DATA

Code	ZC-GW-WB-RI
General Features	Ethernet-ZigBee gateway for router connection
Power supply	5 V = 0.4 A, 2 W; power supply included
Connections	1 RJ45 Ethernet port; 1 micro USB for power
Rialto devices supported	32
Status displays	3 LEDs for diagnostics
Router compatibility requirements	DHCP server function enabled on the router
	UDP broadcast function enabled on the router
	Internet connection active
Radio specifications:	2405 MHz - 2480 MHz
Radio range	up to 20 m indoors
ZigBee profiles	Home Automation Profile
Protection rating	IP20

TECHNICAL DRAWINGS



A Ethernet port | **B** Micro USB





SMART TEMPERATURE CONTROL DEVICES

THERMEE

Battery-powered chronothermostat with humidity sensor (included). Plastic frame for Thermee included in the package.

➤ PLUS

- Battery powered
- Dry contact relay (NC-C-NO)
- Wall mounting
- Summer/winter function
- Keypad lock function
- Master function for activating one or more connected devices (relays and/or thermal valves)
- Frame and adapter for 503 box included in the package

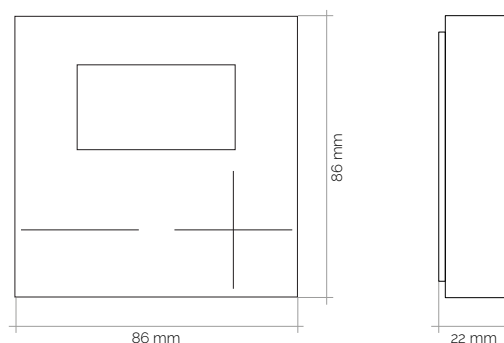
➤ APP FUNCTIONS

- Manual or weekly schedule control
- Programming based on geolocation
- Programming with self-consumption function (requires 4-Noks® Elios4you installed)
- Historical temperature and activation graph (for consumption analysis)

➤ TECHNICAL DATA

Code	ZED-TTR4-RI
General Features	Wireless, battery-powered thermostat with display and touch technology
Power supply	3 x AAA alkaline batteries Battery life: >2 years
Control relay	NC/COM/NO contacts 250 V 5 A Cos(Φ)=1 resistive load
Temperature	Temperature adjustment range: +7 ÷ +30°C Resolution: 0.1°C; Accuracy: ±0.5°C
Radio specifications	2405 MHz ÷ 2480 MHz
Radio range	Up to 20 m indoors
ZigBee profiles	ZigBee HA 1.2
Wireless repeater	No
Protection rating	IP30

➤ TECHNICAL DRAWINGS





SMART TEMPERATURE CONTROL DEVICES

THERMEE

Chronothermostat with humidity sensor powered at +5 V DC (power supply not included). Plastic frame for Thermee included in the package.

PLUS

- Power supply +5 VDC
- Dry contact relay NC-C-NO
- Wall mounting
- Summer/winter function
- Keypad lock function
- Master function for activating one or more connected devices (relays and/or thermal valves)
- ZigBee signal repeater
- Frame and adapter for 503 box included in the package

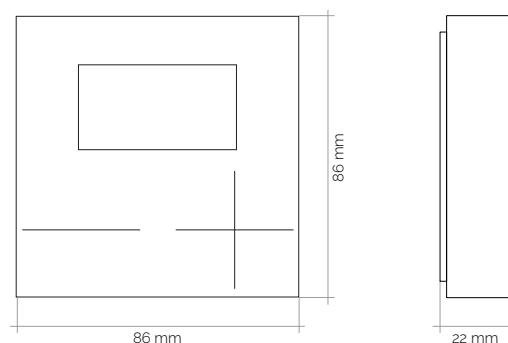
APP FUNCTIONS

- Manual or weekly schedule management
- Programming based on geolocation
- Programming with self-consumption function (requires 4-noks® Elios4you installed)
- Temperature and activation history graph (for consumption analysis)

TECHNICAL DATA

Code	ZR-TTR4-RI
General Features	Wireless thermostat with display and touch technology
Power supply	+5 Vdc $\pm$ 10% 50/60 Hz
Control relay	NC/COM/NO contacts 250 V 5 A Cos(Φ)=1 resistive load
Temperature	Temperature adjustment range: +7 $\div$ +30°C Resolution: 0.1°C; Accuracy: $\pm$ 0.5°C
Radio specifications	2405 MHz $\div$ 2480 MHz
Radio range	Up to 20 m indoors
ZigBee profiles	ZigBee HA 1.2
Wireless repeater	Yes
Protection rating	IP30

TECHNICAL DRAWINGS





SMART TEMPERATURE CONTROL DEVICES

FANDREE

Wireless module for managing 3-speed or 0-10 V fan coils. Must be paired with a Rialto thermostat.

PLUS

- Makes managing traditional fan coils smart*
- Manages multiple fan coils with a single thermostat
- Compatible with 3-speed fan coils or with 0-10 V input
- Auxiliary input
- ZigBee signal repeater

APP FUNCTIONS*

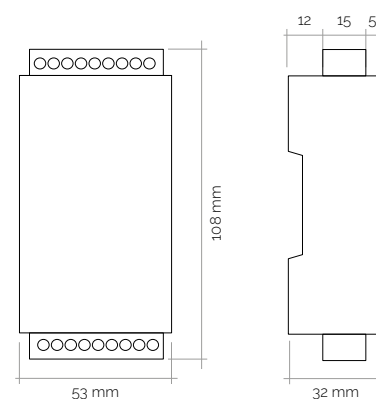
- Remote control
- Weekly schedule temperature and speed
- Logical pairing of one or more fan coil modules

* Requires pairing with a thermostat Rialto for programming

TECHNICAL DATA

Code	ZR-FAN.D-RI
Power supply	100 - 240 VAC $\pm$ 10% 50/60 Hz
Outputs	· 3 relays per speed · 1 valve enable relay · 0-10 V output
Maximum load current AC/DC	4 x 5 A @ 240 VAC / 4 x 5 A @ 30 VDC
Load power (resistive or inductive)	1385 VA @ 230 VAC power factor 0.4 min 150 W @ 30 VDC
Inputs	· 1 external NTC probe input · 1 Aux input
Physical interface	· 1 Service button · 1 LED indicator
Radio specifications	2405 MHz ÷ 2480 MHz
Radio range	Up to 20 m indoors
ZigBee profiles	ZigBee HA 1.2
Electric consumption	0.8 W
Wireless Repeater	Yes
Protection Rating	IP20

TECHNICAL DRAWINGS





SMART TEMPERATURE CONTROL
DEVICES

THERMOSTATIC HEAD DANFOSS ALLY™

Wireless digital thermostatic head for installation on radiator valves. Includes adapters for RA (Danfoss), M30, Caleffi, and Giacomini valves.

➤ PLUS

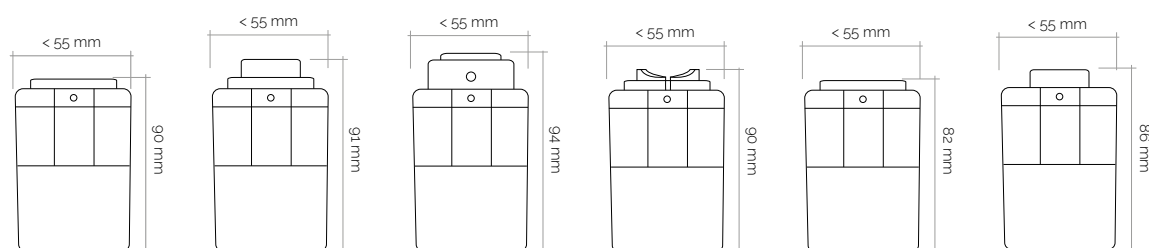
The ZigBee thermostatic head for Danfoss Ally™ radiators is fully integrated and easily manageable with the Rialto Active system. Installation takes just 30 seconds!

- It can be programmed independently or manually via the handwheel, button, and integrated LCD display, or connected to a Rialto thermostat (slave configuration)
- The thermostatic head is battery-powered and, thanks to ZigBee technology, has low consumption and a lifespan of up to two years
- Adapters for the most popular thermostatic valves included in the package

➤ TECHNICAL DATA

Code	ZED-DNF-RI
General Features	programmable electronic radiator valve controller
Actuator	electromechanical
Display	LCD display with white backlight
Power supply	2 x 1.5 V AA alkaline batteries Lifespan: up to 2 years
Power consumption	3 mW in standby 1.2 W in operation
Maximum water temperature	90 °C
Temperature adjustment range	5 to 35°C
Shaft movement	Linear up to 4.5 mm, maximum 2 mm on the valve (1 mm/s)
Noise level	<30 dBA
Radio specifications	2405 MHz ÷ 2480 MHz
Radio range	up to 20 m indoors
ZigBee profiles	ZigBee HA 1.2
Wireless repeater	No
Protection rating	IP 20 (do not use in hazardous locations or exposed to water)

➤ TECHNICAL DRAWINGS





HEMREE

Compact unidirectional energy and power meter for single-phase lines up to 16 kW (70 A). Includes 2 split CTs, internal CT diameter 10 mm. DIN rail mounting.

PLUS

- Wireless single-phase smart meter for precise monitoring of electricity consumption
- DIN rail installation ideal for new or existing electrical panels
- Direct measurement of the phase line without interfering with the load
- ZigBee signal repeater
- Perfect as a complement to smart plug relays and IO modules in the catalog

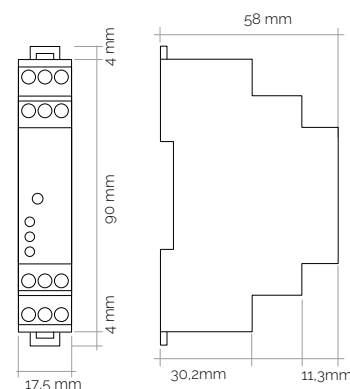
APP FUNCTIONS

- View energy consumption of the measured line
- Monitor device status
- Manage the device from the app list

TECHNICAL DATA

Code	ZR-HM2-15-RI
Power supply	230 Vac $\pm 10\%$ 1 W 50/60 Hz
Electrical insulation	class 2
Measurements	active power [W] active energy [Wh]
Maximum measurable power	Max 16kW
Measurement error	$\pm 2\%$
TA	$\varnothing 10 \text{ mm}$ - 70/23.3 mA L= 1000 mm
Radio range	up to 20 m indoors
Protection rating	IP20
Radio specifications	frequency: 2.4 GHz ZigBee HA 1.2
Operating temperature	$+5 \div +40^\circ\text{C}$; <80% U.R. n.c
Wireless repeater	Yes

TECHNICAL DRAWINGS





RELAYS, LIGHT DIMMER, ROLLER SHUTTER CONTROL, SMART SOCKETS

EKKO 1 RELAY

CLEAN CONTACT

Flush-mounted wireless module with 1 dry contact relay to be combined with existing manual controls (switches or buttons) for the smart management of any device equipped with a digital input or electrical loads (ON/OFF).

➤ PLUS

- Compact size: suitable for all junction boxes
- Compatible with all types of switches/buttons, regardless of brand
- Flexible application thanks to the dry contact relay
- ZigBee signal repeater

➤ TYPICAL APPLICATIONS

- Remote boiler contact, activation of contactors, contact for digital inputs, integration into third-party systems

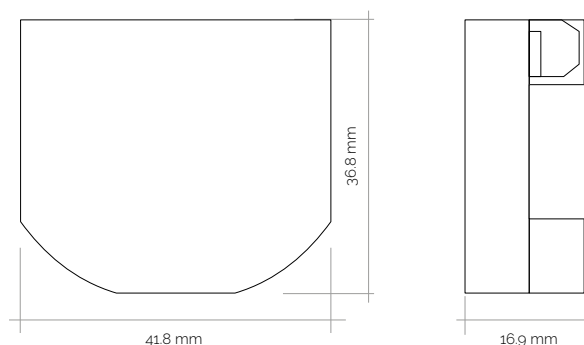
➤ APP FUNCTIONS

- Manual or scheduled ON/OFF control
- Programming with photovoltaic self-consumption function (requires 4-noks® Elios4you installed)
- Programming with geolocation function
- Bistable or monostable output configuration (1 sec - 15 min)

➤ TECHNICAL DATA

Code	ZR-F-1RD-RI (dry contact relay)
Power supply	110 - 240 VAC $\pm 10\%$, 50/60 Hz, (24-30 VDC)
Rated load current AC/DC (resistive load)*	1 X 10 A
Load power (resistive)	2400 W (240 VAC), 100 W (110 VAC), 240 W (24V DC)
Radio specifications	2405 MHz $\div$ 2480 MHz
Radio range	Up to 20 m indoors
ZigBee profiles	Home Automation Profile (HA1.2)
Power consumption	0.4 W
Rialto network radio repeater function	Yes
Protection rating	IP20

➤ TECHNICAL DRAWINGS





RELAYS, LIGHT DIMMER, ROLLER SHUTTER CONTROL, SMART SOCKETS

EKKO 1-2 RELAY

Flush-mounted module with 1 or 2 wireless relays to be combined with existing manual controls (switches or buttons) for the smart management of electrical loads (ON/OFF).

PLUS

- Compact size: fits all junction boxes
- Compatible with all types of switches/ buttons, regardless of brand
- Integrated high-precision energy meter
- ZigBee signal repeater

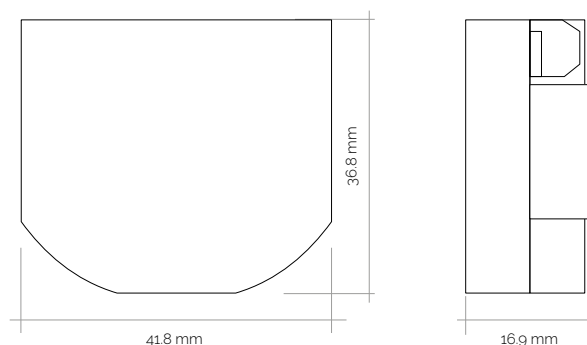
APP FUNCTIONS

- Manual control and/or with a schedule and/or with voice assistant
- Instantaneous/historical energy consumption display
- Energy meter with resettable consumption calculation
- Compatible with Echoback® function

TECHNICAL DATA

Code	ZR-F-1R-RI (1 relay version) ZR-F-2R-RI (2 relay versions)
Power supply	110 - 240 VAC $\pm 10\%$, 50/60 Hz, (24-30 VDC)
Rated load current AC/DC (resistive load) *	ZR-F-1R-RI (vers. 1 relè): 1 X 10 A ZR-F-2R-RI (vers. 2 relè): 2 X 4 A
Load power (resistive) *	ZR-F-1R-RI (vers. 1 relè): 2300 W (240 VAC), 1100 W (110 VAC), 240 W (24V DC) ZR-F-2R-RI (vers. 2 relè): 2 X 940 W (240 VAC), 2 X 440 W (110 VAC), 2 X 96 W (24V DC)
Radio specifications	2405 MHz $\div$ 2480 MHz
Radio range	up to 20 m indoors
ZigBee profiles	Home Automation Profile (HA1.2)
Power consumption	0.4 W
Rialto network radio repeater function	Yes
Protection rating	IP20

TECHNICAL DRAWINGS





RELAYS, LIGHT DIMMER, ROLLER SHUTTER CONTROL, SMART SOCKETS

EKKO SHUTTER

Built-in module for the smart management of motorized roller shutters/awnings, in combination with existing push-button controls or interlocked switches.

➤ PLUS

- 2 relays 4 A/230 V (resistive load)
- Suitable for all junction boxes
- Energy meter with resettable consumption calculation
- ZigBee signal repeater

➤ APP FUNCTIONS

Remote control of tubular electric motors with separate power supplies for the two directions of rotation (Up/Down) for:

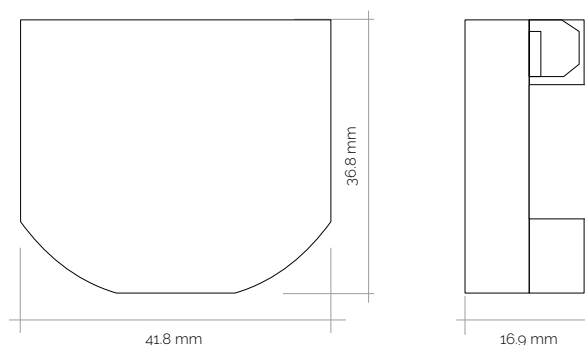
- ROLLER SHUTTERS
- ARM AWNINGS
- ROLLER BLIND
- PROJECTION BLIND

- Compatible with Echoback® function

➤ TECHNICAL DATA

Code	ZR-F-SHT-RI
Power supply	1110 - 240 VAC $\pm 10\%$, 50/60 Hz, (24-30 VDC)
Rated load current AC/DC (resistive load)*	2 X 4 A (240 VAC)
Load power (resistive) *	2 X 940 W (240 VAC)
Radio specifications	2405 MHz ÷ 2480 MHz
Radio range	up to 20 m indoors
ZigBee profiles	Home Automation Profile (HA1.2)
Power consumption	0.4 W
Rialto network radio repeater function	Yes
Protection rating	IP20

➤ TECHNICAL DRAWINGS





RELAYS, LIGHT DIMMER, ROLLER
SHUTTER CONTROL, SMART SOCKETS

EKKO DIMMER

RECESSED LIGHT DIMMER MODULE

Recessed dimmer module (0.6 A - 230 V). Control and adjust light intensity. Integrated energy and power meter.

PLUS

- Max. power 140 W/230 V
- Compatible with incandescent, halogen, and dimmable LED lamps
- Maintains manual push-button control
- Suitable for all wall boxes
- ZigBee signal repeater

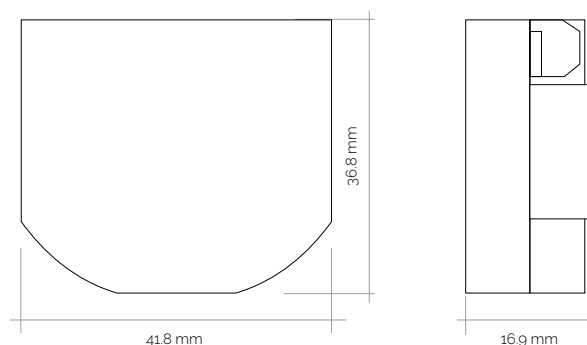
APP FUNCTIONS

- Manual or automatic remote control
- Daily and weekly programming via app with the ability to set different brightness levels
- Energy consumption display (instantaneous data and historical consumption)

TECHNICAL DATA

Code	ZR-F-DIM-RI
Power supply	110 - 240 VAC $\pm$ 10%, 50/60 Hz, (24-30 VDC)
Rated load current AC/DC (resistive load)*	0.6 A / 240 VAC , 0.85 A / 30 VDC
Load power (resistive)	140 W (240 VAC) , 20 W (24V DC)
Radio specifications	2405 MHz ÷ 2480 MHz
Radio range	up to 20 m indoors
ZigBee profiles	Home Automation Profile (HA1.2)
Power consumption	0.4 W
Rialto network radio repeater function	Yes
Protection rating	IP20

TECHNICAL DRAWINGS





RELAYS, LIGHT DIMMER, ROLLER
SHUTTER CONTROL, SMART SOCKETS

EKKO SGR

Built-in module equipped with 2 dry contact relays for managing the Smart Grid Ready standard.

➤ PLUS

- Dual dry contact outputs for controlling heat pumps and generators
- AC and DC compatible (110–240 VAC / 24–30 VDC) for maximum application flexibility
- ZigBee signal repeater

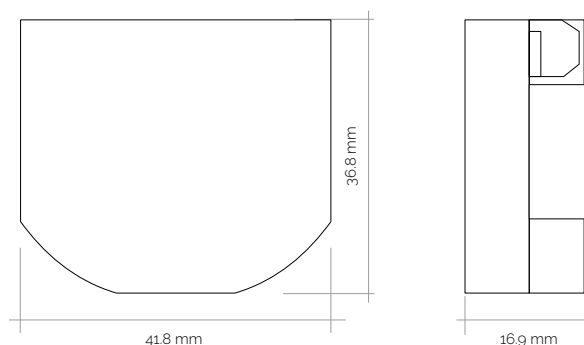
➤ APP FUNCTIONS

- Output configuration (A1/A2, B1/B2)
- Device activation and management from the app list
- Check the status of outputs A and B (ON/OFF)

➤ TECHNICAL DATA

Code	ZR-F-SGR-RI
Power supply	110 - 240 VAC $\pm 10\%$, 50/60 Hz, (24-30 VDC)
Rated load current AC/DC (resistive load)*	2x4 A / 240 VAC
Load power (resistive) *	2 X 940 W (240 VAC), 2 X 440 W (110 VAC), 2 X 96 W (24V DC)
Radio specifications	2405 MHz $\div$ 2480 MHz
Radio range	up to 20 m indoors
ZigBee profiles	Home Automation Profile (HA1.2)
Power consumption	0.4 W
Radio repeater function Rialto network	YES
Protection rating	IP20

➤ TECHNICAL DRAWINGS





SMART IO

Multifunction wireless module with 4 dry contact relay outputs, 1 0-10 V output, and 2 configurable digital inputs.

PLUS

- Multi-IO dry contacts for maximum compatibility with systems, devices, and external loads
- Ideal for retrofitting: adds smart functionality without modifying the existing system

APP FUNCTIONS

- Enabling and associating peripherals connected to the module
- Input/output operating modes (logic, behavior)
- Active configuration of individual enabled peripherals

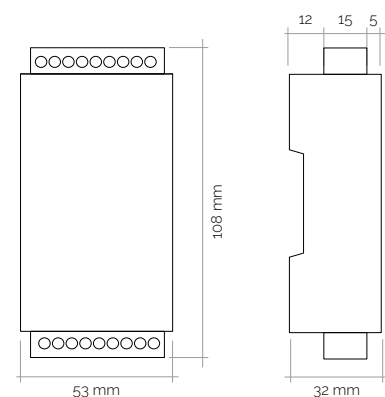
TYPICAL INSTALLATIONS

- Home automation and smart buildings
- Security and control systems
- Light automation

TECHNICAL DATA

Code	ZR-IO.D-RI
Outputs	4 dry contact relays (5A @ 240 VAC resistive load) 1 0-10 VDC output
Inputs	2 inputs for dry contacts or temperature probes
Probe Type	NTC 10K Beta 3435
Temperature Measurement Range	-30 °C ÷ +130 °C
Physical Interface	1 Service Button 1 Indicator LED
Power Consumption	0.8 W
Radio specifications	2405 MHz ÷ 2480 MHz
ZigBee profiles	ZigBee HA 1.2
Radio Range	up to 20 m indoors
Wireless Repeater	Yes

TECHNICAL DRAWINGS





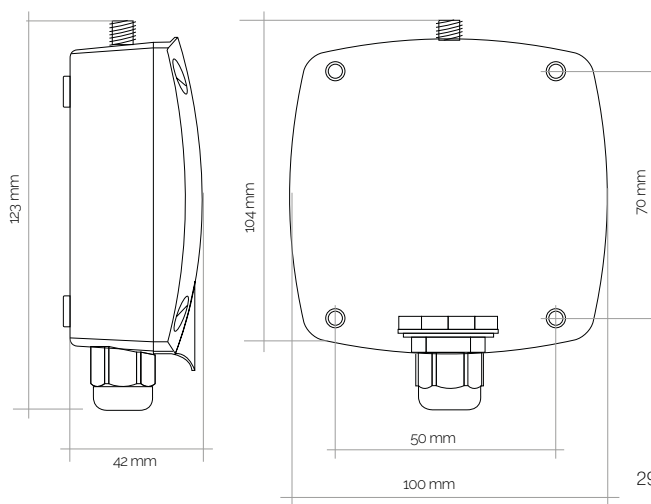
REPEATER

ZigBee radio signal repeater 230 VAC power supply.

7 TECHNICAL DATA

Code	ZR-REP-RI
General features	ZigBee Home Radio Repeater Automation
ZigBee profiles	Home Automation (HA) Profile 1.2
Power Supply	90÷250Vac; 50÷60Hz
Consumption	IP44
Antenna connector	RP-SMA connector
Dimensions (W x H x D)	23 x 100 x 42 mm (without antenna)
Approximate range	100 mt

7 TECHNICAL DRAWINGS





RELAYS, LIGHT DIMMER, ROLLER
SHUTTER CONTROL, SMART SOCKETS

SMART PLUG 2

Wireless socket (Schuko standard) for loads up to 16 A,
integrated energy and power meter.

➤ PLUS

- Ready-to-use wireless smart socket
- Remote control via app to manage connected loads quickly and easily
- Ideal for retrofitting, it adds smart functionality to any plug-in appliance

➤ APP FUNCTIONS

- Remotely turn the load connected to the socket on and off
- Device pairing and management within the app



SMART TEMPERATURE CONTROL
DEVICES

POWER SUPPLY

230 Vac - 5 Vdc built-in power supply for ZR-TTR4-RI.



elios4you

PHOTOVOLTAIC
solutions

	ELIOS4YOU.....	32
	ELIOS4YOU PRO.....	33
	POWER REDUCER.....	36
	POWER REDUCER SA.....	37
	4-CLOUD.....	38
	4-CLOUD-GPRS.....	38



MONITORING AND SELF-CONSUMPTION
PHOTOVOLTAIC VIA APP

ELIOS4YOU

Monitoring and self-consumption device for single-phase photovoltaic systems up to 12 Kw in exchange. Includes 2 split CTs, internal diameter CT 15 mm

➤ PLUS

- Suitable for all types of photovoltaic systems.
- For single-phase systems up to 12 kW
- Wi-Fi connection
- Compatible with the Rialto Active system for energy consumption optimization

➤ APP FUNCTIONS

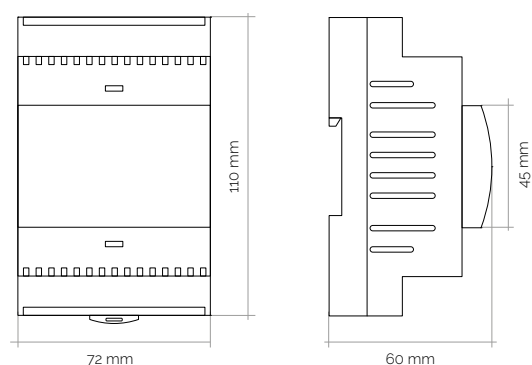
- View production/consumption/network exchange data
- Data history on the 4-Cloud portal (optional)

4-noks® Elios4you is also available in a three-phase version for systems up to 100 Kw

➤ TECHNICAL DATA

Code	E4U
General features	control system for single-phase photovoltaic systems with Wi-Fi connection and Android/iOS app
Power supply	230 Vac ($\pm 10\%$) 50/60 Hz 2 W
Current measurement	with split CT (max. internal diameter 15 mm)
Power measurement	Max. 12 kW
Antenna	external SMA RP screw (data transmission via Wi-Fi)
Outputs	Relay output (max. 10 A @ 230 Vac) 0-10 Vdc control output
Inputs	2 dry alarm contacts (N.O.)
Data history	up to two months, in the event of a failure to connect to the tablet, with sampling every 15 minutes
Status displays	8 LEDs
Radio specifications	Wi-Fi 802.11 b/g/n
Protection rating	IP20

➤ TECHNICAL DRAWINGS





MONITORING AND SELF-CONSUMPTION
PHOTOVOLTAIC VIA APP

ELIOS4YOU PRO 15 KW

Monitoring and self-consumption device for three-phase photovoltaic systems up to 15 Kw in exchange. Includes 6 split CTs, internal CT diameter 15 mm.

➤ PLUS

- Suitable for all types of photovoltaic systems
- For systems up to 15 kW
- Wi-Fi connection
- Compatible with the Rialto Active system for optimizing energy consumption

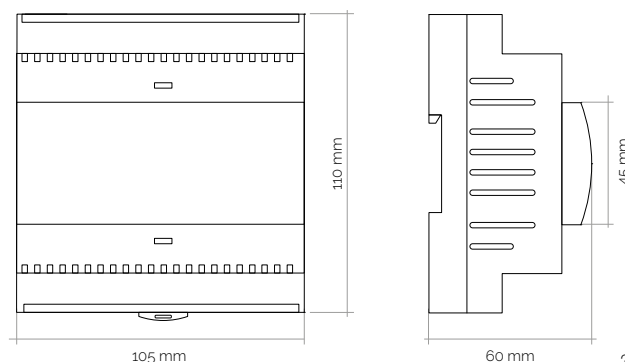
➤ APP FUNCTIONS

- View production/consumption/network exchange data
- Data history on the 4-Cloud portal (optional)

➤ TECHNICAL DATA

Code	E4U-PRO-15
General features	control system for single-phase photovoltaic systems with Wi-Fi connection and Android/iOS app
Power supply	400 V (3 x 230 Vac + neutral) ($\pm 10\%$) 1.8 W
Current measurement	with split CT (max. internal diameter 15 mm)
Power measurement	15 kW
Antenna	external SMA RP screw (data transmission via Wi-Fi)
Outputs	Relay output (max. 10 A @ 230 Vac) 0-10 Vdc control output
Inputs	2 dry alarm contacts (N.O.)
Data history	up to two months, in the event of a failed connection to the tablet, with sampling every 15 minutes
Status displays	6 LEDs
Radio specifications	Wi-Fi 802.11 b/g/n
Protection rating	IP20

➤ TECHNICAL DRAWINGS





MONITORING AND SELF-CONSUMPTION
PHOTOVOLTAIC VIA APP

ELIOS4YOU PRO 50KW

Monitoring and self-consumption device for three-phase photovoltaic systems up to 50 kW in exchange. Includes 6 split CTs, internal CT diameter 15 mm.

➤ PLUS

- Suitable for all types of photovoltaic systems
- For single-phase systems up to 50 kW
- Wi-Fi connection
- Compatible with the Rialto Active system for optimizing energy consumption

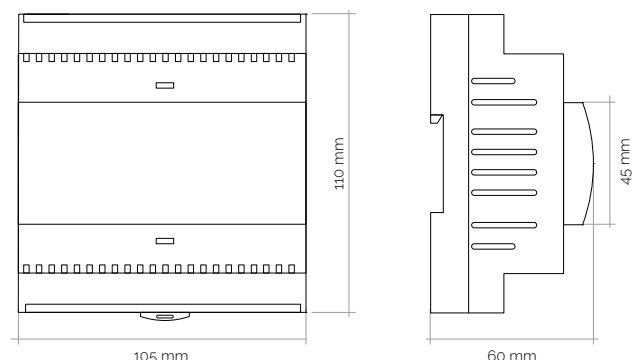
➤ APP FUNCTIONS

- View production/consumption/network exchange data
- Data history on the 4-Cloud portal (optional)

➤ TECHNICAL DATA

Code	E4U-PRO-50
General Features	control system for single-phase photovoltaic systems with Wi-Fi connection and Android/iOS app
Power supply	400 V (3 x 230 Vac + neutral) ($\pm 10\%$) 1.8 W
Current measurement	with split CT (max. internal diameter 15 mm)
Power measurement	max. 50 kW
Antenna	external SMA RP screw (data transmission via Wi-Fi)
Outputs	Relay output (max. 10 A @ 230 Vac) 0-10 Vdc control output
Inputs	2 dry alarm contacts (N.O.)
Data history	up to two months, in the event of a failed connection to the tablet, with sampling every 15 minutes
Status displays	6 LEDs
Radio specifications	Wi-Fi 802.11 b/g/n
Protection rating	IP20

➤ TECHNICAL DRAWINGS





MONITORING AND SELF-CONSUMPTION
PHOTOVOLTAIC VIA APP

ELIOS4YOU PRO 100 KW

Monitoring and self-consumption device for three-phase photovoltaic systems up to 100 kW in exchange. Includes 6 split CTs, internal CT diameter 25 mm.

➤ PLUS

- Suitable for all types of photovoltaic systems
- For single-phase systems up to 100 kW
- Wi-Fi connection
- Compatible with the Rialto Active system for optimizing energy consumption

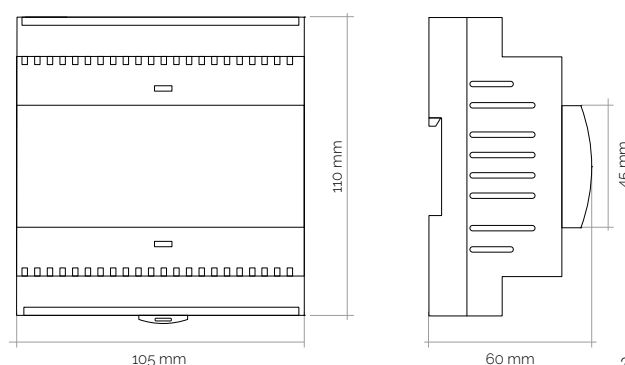
➤ APP FUNCTIONS

- View production/consumption data
- Exchange with the grid
- Data history on the 4-Cloud portal (optional)

➤ TECHNICAL DATA

Code	E4U-PRO-100
General Features	control system for single-phase photovoltaic systems with Wi-Fi connection and Android/iOS app
Power supply	400 V (3 x 230 Vac + neutral) ($\pm 10\%$) 1.8 W
Current measurement	with split CT (max. internal diameter 23 mm)
Power measurement	max. 100 kW
Antenna	external SMA RP screw (data transmission via Wi-Fi)
Outputs	Relay output (max. 10 A @ 230 Vac) 0-10 Vdc control output
Inputs	2 dry alarm contacts (N.O.)
Data history	up to two months, in case of failure to connect to the tablet, with sampling every 15 minutes
Status displays	No. 6 LEDs
Radio features	Wi-Fi 802.11 b/g/n
Protection rating	IP20

➤ TECHNICAL DRAWINGS





SMART TEMPERATURE CONTROL
DEVICES

POWER REDUCER

Wired power controller for Elios4you systems. For resistive loads up to 3 kW.

➤ PLUS

- Optimized self-consumption: uses excess PV energy to heat hot water
- Dynamic power regulation based on the actual energy available
- Native integration with Elios4you

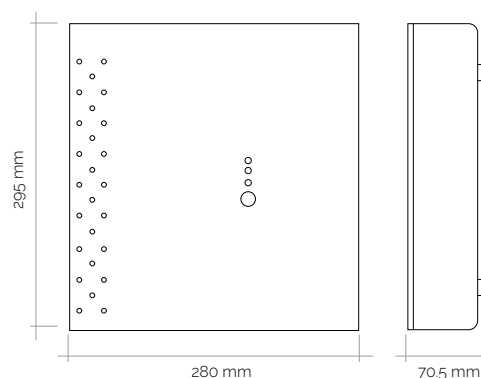
➤ APP FUNCTIONS

- Monitoring of photovoltaic surplus
- Management and supervision of the Elios4you system
- Verification of correct operation of the Power Reducer

➤ TECHNICAL DATA

Code	PR
General features	controlled power divider for single-phase resistive loads (typically an electric boiler)
Power Supply	230 Vac ($\pm 10\%$) 50 Hz
Output	max. 3.0 kW resistive output
Status display	2 visual alarms, system on, system with Boost engaged 1 LED with brightness proportional to the power divider
Protection	internal 30 A protection fuse (FF632320)
Connections	• Screw terminals for power supply • Screw terminals for powering the resistive load • Screw terminals for current transformers (supplied); cable L = 3000 mm
Protection rating	IP20

➤ TECHNICAL DRAWINGS





SMART TEMPERATURE CONTROL DEVICES

POWER REDUCER SA

Stand-alone power divider. For resistive loads up to 3 kW. No additional devices required. Includes one split CT, CT internal diameter 15 mm.

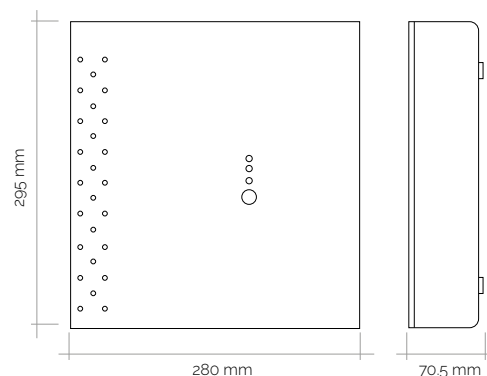
PLUS

- Optimized self-consumption: uses excess PV energy to heat hot water
- Dynamic power regulation based on the actual energy available
- Stand-alone operation mode

TECHNICAL DATA

Code	PR-SA
General characteristics	controlled power divider for single-phase resistive loads (typically an electric boiler)
Power supply	230 Vac ($\pm 10\%$) 50 Hz
Output	max. 3.0 kW resistive output
Status display	2 visual alarms, system on, system with Boost engaged 1 LED with brightness proportional to the power divider
Protection	internal 30 A protection fuse (FF632320)
Connections	· Screw terminals for power supply · Screw terminals for resistive load · Screw terminals for CTs supplied; cable length = 3000 mm
Current measurement	with split CT (max. internal diameter 15 mm)
Protection rating	IP20

TECHNICAL DRAWINGS





4 - CLOUD. 4-NOKS PRODUCT MONITORING
AND ENERGY MONITORING SERVICE

4-CLOUD

Annual access fee to the 4-cloud portal **

*** Service to be requested directly from 4-Noks*

PLUS

- Online data history
- System monitoring with interactive functions
- Alarm management in the event of malfunctions (via e-mail and text message)
- Certified data for compiling the UTF register



4 - CLOUD. 4-NOKS PRODUCT MONITORING
AND ENERGY MONITORING SERVICE

4-CLOUD-GPRS

GPRS SIM with data traffic and annual access
to the 4-cloud portal **

*** Service to be requested directly from 4-Noks*

PLUS

- Online data history
- System monitoring with interactive functions
- Alarm management in the event of malfunctions (via e-mail and text message)
- Certified data for compiling the UTF register

→ **4-Noks** is a brand of Eutech
Electronics Srl
via dei Gelsi 19
31010 Godega di S. Urbano (TV) Italia

→ T. +39 0438 1910012
M. info@4-noks.com
4-noks.com

