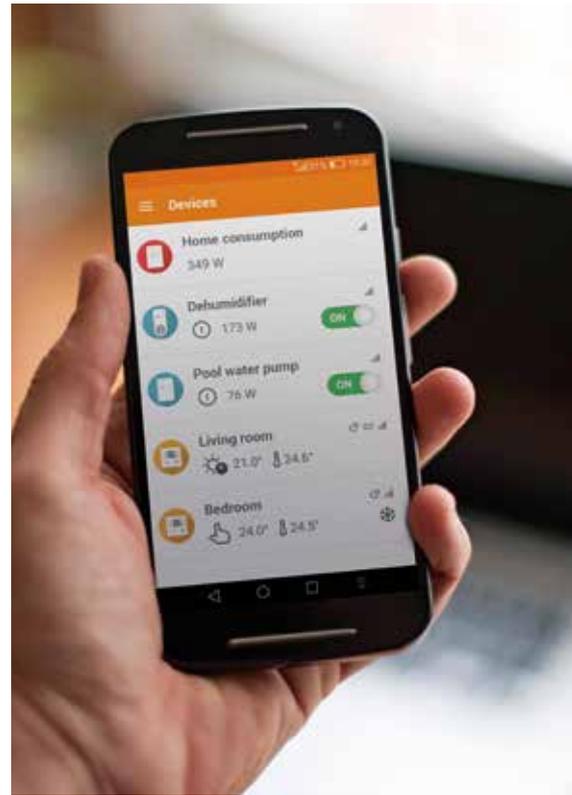
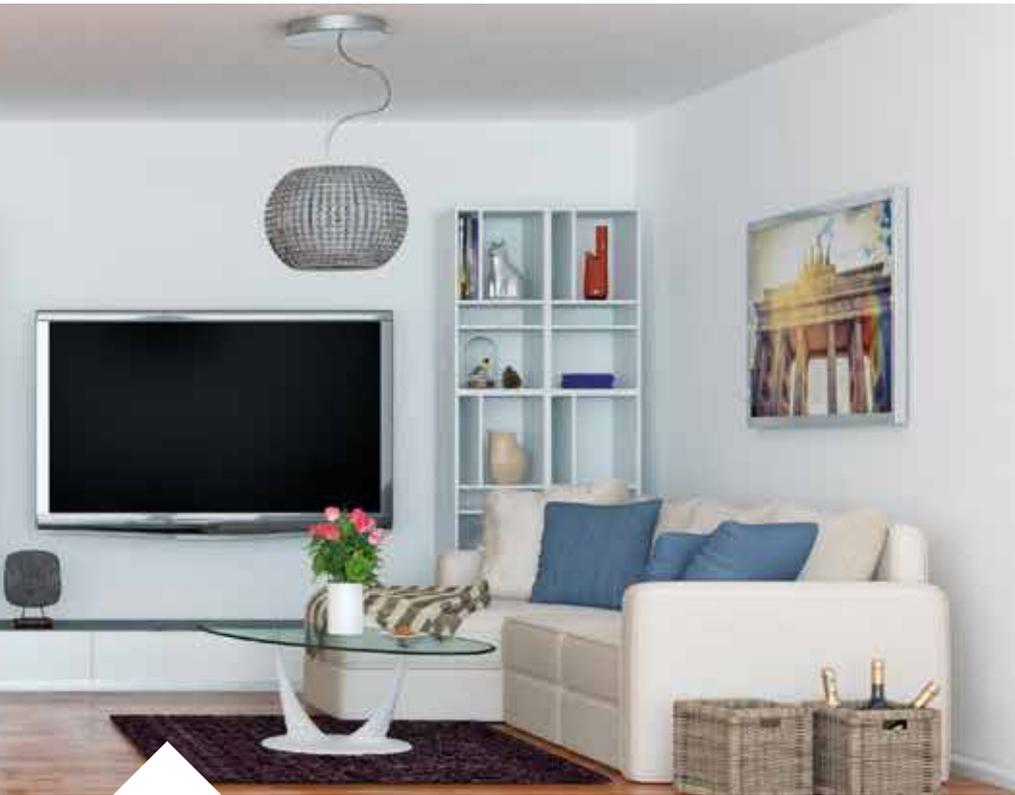


# rialto



## All the energy of your home, in an App!

The smart home system for managing

- ✓ wireless thermostats
- ✓ energy meters
- ✓ smart sockets

**AG**  
ASTRELGROUP



# Rialto, simplicity with total comfort



Simple  
installation



Simple configuration



Simple  
to use



# Managing energy usage in your home has never been easier!

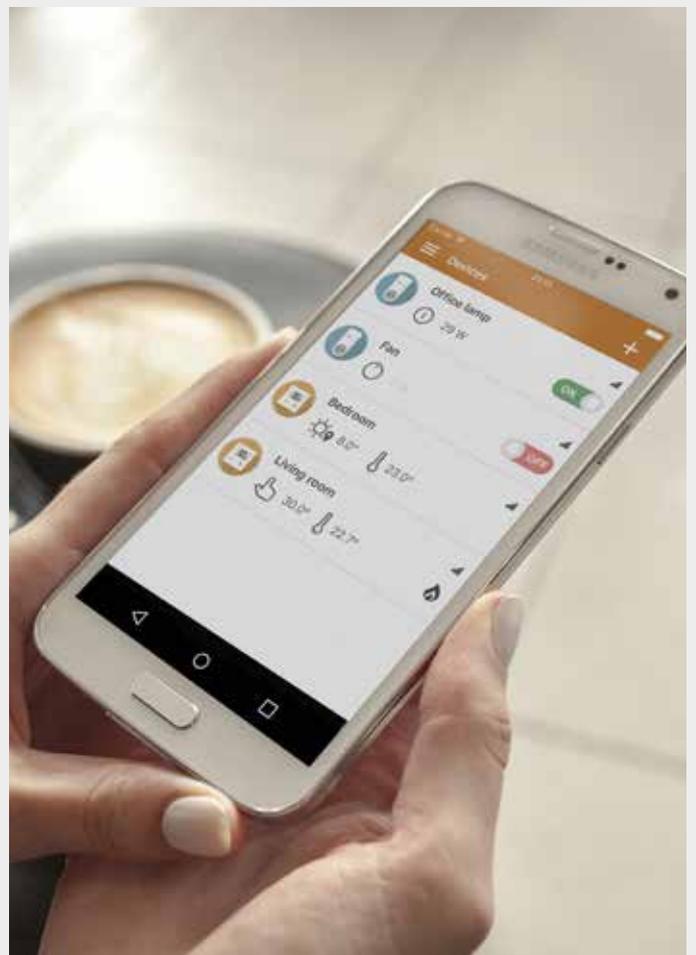
Making life easier for people thanks to technology, **improving comfort and optimizing energy usage**. Rialto does all of this: it makes running of the home that much easier by reducing energy usage, thanks to a perfect combination of **electronic devices, Apps and smart functions**.

## With Rialto you can:

- ✓ control all connected devices with ease using **a single App**
- ✓ see where your home and household appliances are using electricity: **how, and how much**
- ✓ **reduce wasted energy**

## A simple App, for everyone

- ✓ **Intuitive:** user-friendly from installation to use
- ✓ **No frills:** everything you need, and nothing else
- ✓ **Complete:** expandable together with your smart home



# The smart home system that cares for the environment

Rialto is a product **designed and made entirely in Italy by the Astrel Group**, an electronics company of thirty years standing, certified to ISO 14001, particularly attentive to issues of environmental impact and to selection of the right suppliers.

In short, a product guaranteed **ethically sound and of low environmental impact**.

DESIGNED & MADE IN ITALY

## Lots of devices. Just one App

- ✓ **Wireless thermostats**, controlling all zones
- ✓ **Energy meters**, for checking on usage in real time
- ✓ **Smart sockets and switches**, for activating and controlling household electrical appliances

## Open design

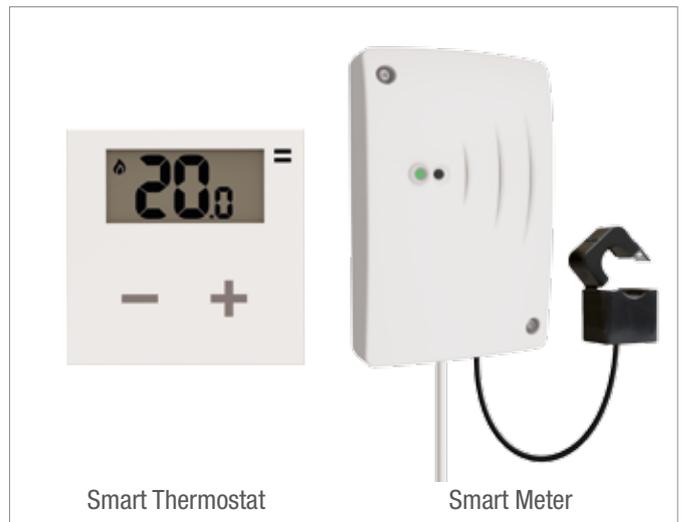
All devices bearing the “Works with Rialto” logo can be integrated into the Rialto system.



# “Rialto” App overview

The **free** App for complete energy management, **wherever you are**.

- ✓ **Multi-user control** from remote locations via smartphone / tablet **even when far from home**
- ✓ Available for **Android and iOS**
- ✓ **Demo mode**



Smart Thermostat

Smart Meter



### Smart Thermostat

Winter or summer, control the climate in your home from wherever you happen to be

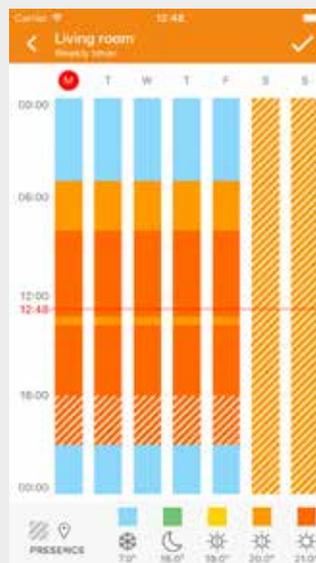
#### Special functions:



Keypad lockout function



Connection of thermostat and other devices in cascade



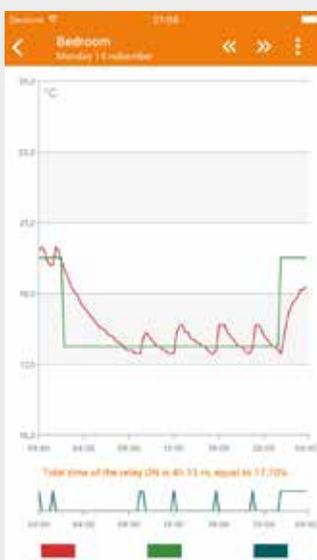
### Smart Thermostat

Program the timer-thermostat with ease using 5 temperature bands, for each day of the week

#### Special functions:



Program heating to switch on using geolocation parameters



### Smart Thermostat

For each thermostat, a graph showing temperatures and indicating system on-off times, daily, weekly or monthly

#### Graphic information:



Temperature curve and graph showing operation of the system (relay activation)



### Smart Meter

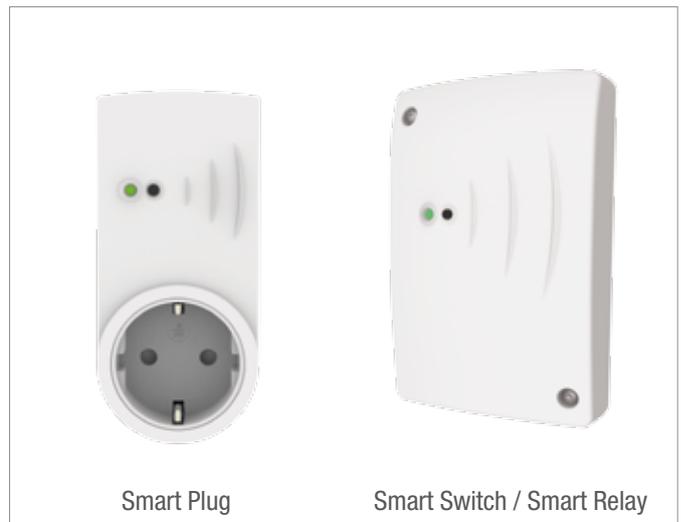
Displays power consumption and energy usage of your home, of your lighting system or of single electrical loads

#### On-screen information:



The meter (zero-settable) provides an estimate of running costs

- ✓ Multi-zone climate control with one or more **Smart Thermostats**
- ✓ Monitoring of electricity usage and cost estimation using **Smart Meters**
- ✓ Programming and measurement of energy usage with **Smart Plugs** and **Smart Switches**
- ✓ Operation of devices piloted by temperature, with one or more **Smart Relays / Plugs / Switches** connected to a Smart Thermostat



**Smart Plug / Smart Switch**  
Check the electrical loads operating in your home and see how much energy they are using — in real time

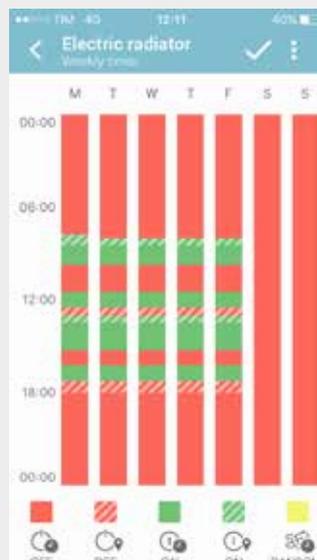
**On-screen information:**



The meter (zero-settable) provides an estimate of running costs



Also available in **Smart Relay** version (remote relay with voltage-free contact)

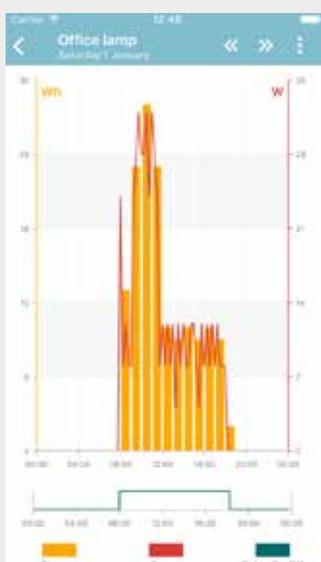


**Smart Plug / Smart Switch**  
Program household electrical appliances and other loads to switch on and off, on a daily and a weekly basis

**Special functions:**



Random lights on/off function, simulating occupancy



**Smart Plug / Smart Switch**  
Displays the electricity usage of your connected devices and indicates for what length of time they remain on

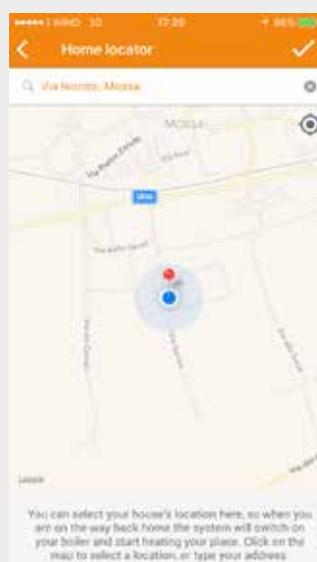
**On-screen information:**



Graph showing daily energy [Wh] and power [W] consumption



Activation of relay during selected period



**Geolocation**  
Sets the operation of all devices to automatic depending on the distance from home

**On-screen information:**



Setting of localization area for activation of heating and/or electrical appliances

# Rialto for climate control: adaptable to any system

Whatever type of heating system you happen to have installed, with Rialto you can turn it into a **smart heating system**. Better still: with the **integrated summer/winter control function**, you can manage both your heating and air conditioning systems using a single thermostat, and just one App.

- ✓ Traditional heating with **water filled radiators**
- ✓ Heating with **underfloor coils**
- ✓ Heating with **electric radiators** and/or **infrared radiant panels**
- ✓ Heating / cooling with **heat pump**
- ✓ Heating with **pellet stoves** (operation piloted by outdoor thermostat)



**Smart Thermostat and Smart Plug**  
Activation of electric radiators and radiant panels on the basis of ambient temperature



**Smart Thermostat**  
Management of heating and cooling with heat pump and just one thermostat



**Smart Relay**  
Switch-on, switch-off and programming of pellet stove via App



# One thermostat, multiple applications

With a **battery-powered wireless thermostat**, the facility of **expanding** the system **up to 32 devices**, and advanced functions such as the capability of controlling other electrical appliances in response to temperature levels, the applications are clearly numerous.

- ✓ **Replacement of existing thermostats** without changes to the system
- ✓ **Multi-zone heating, even on different floors**, in dwellings and small offices
- ✓ Temperature management for interiors using **Controlled Mechanical Ventilation** system
- ✓ Connection of multiple electric radiators or radiant panels to a **single wireless thermostat**
- ✓ Integrated **summer/winter** climate control



#### Smart Thermostat

Management of multi-zone heat, even on different floors



#### Smart Thermostat and Smart Relay

Temperature control using VMC systems



#### Smart Thermostat and Smart Switch

Integrated summer/winter climate control



# Rialto for effective management of electricity usage

To find out **how much electricity is being used** in the home or assess how best to invest in technologies aimed at maximizing **energy efficiency**, Rialto offers a range of **wireless energy meters** featuring professional grade specifications.

- ✓ Monitoring of energy usage at home and at work
- ✓ Separate monitoring of usage on **different lines** (lights, emf, etc.)
- ✓ Programming, operation and metering of energy usage by **pool water pumps**



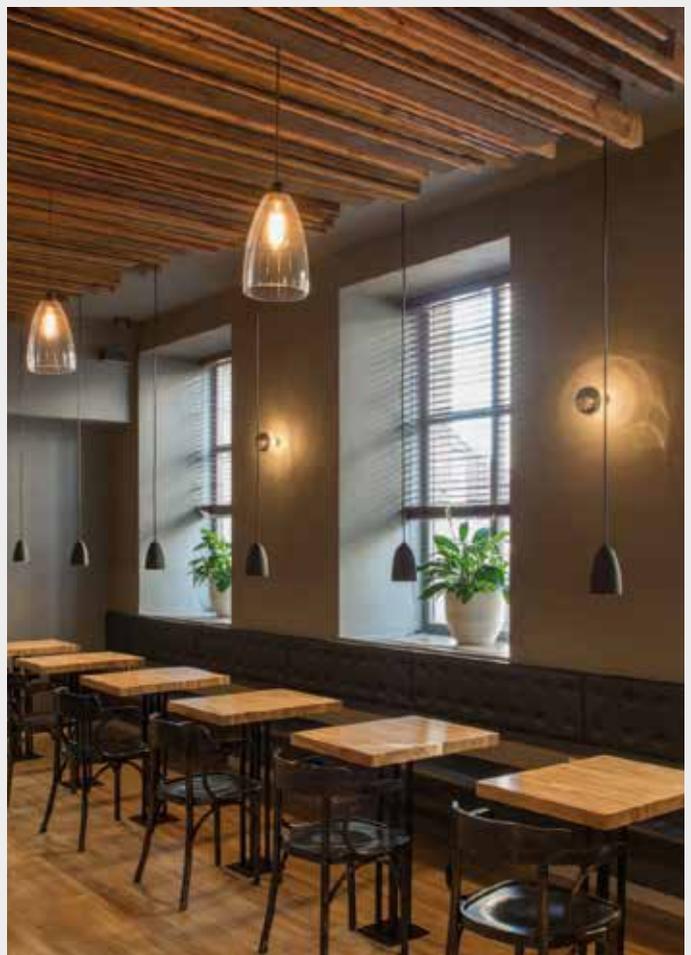
**Smart Meter and/or Smart Switch**  
Programming indoor and outdoor lighting systems with energy meters



**Smart Plug and/or Smart Switch**  
Programming and operation of pool water pumps



**Smart Meter**  
Monitoring of energy used for lighting systems in shops, offices, etc.



# Not only smart home: Rialto for business applications too

The Rialto system allows management of climate control and electricity usage with **maximum flexibility** even in situations other than the home environment:

- ✓ **offices**
- ✓ **hospitality structures** (B&B, holiday farms, small hotels)
- ✓ **commercial premises** (shops, restaurants, beauty centres, etc.)
- ✓ **small-medium enterprises**

A few practical examples of **feedback from our customers**.

## Francesca: *“At last, I can do a proper assessment of the energy efficiency investments I need to make in my shops”*

Francesca, who owns and runs a number of **small shops**, started using Rialto to monitor energy usage in real time across the single businesses, and soon found out what she needed to do achieve a **reduction in costs**, looking separately at the electricity used for lighting the point of sale and the window displays.

## Luca: *“I’ve managed to reduce heating bills in my B&B by 30%”*

Thanks to Rialto and the installation of **9 thermostats connected to the valves of single radiators**, Luca can now program the heating of single rooms on the basis of bookings, and he can do it with total convenience — any time, anywhere — from his smartphone.



## Alessandro: *“Today there’s no energy wasted in my business, thanks to the flexibility of Rialto thermostats”*

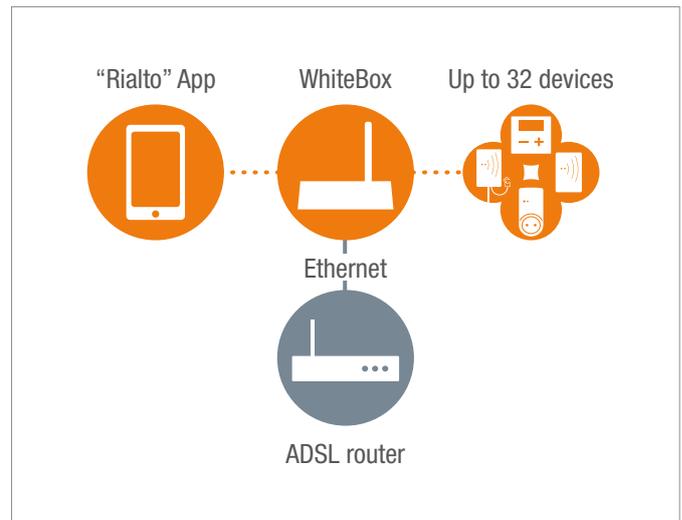
With Rialto, Alessandro has achieved a more flexible management of **climate control on the entire company premises**, production and offices alike. Thanks to the App, any change in the setting of on/off times to accommodate extra work shifts or holidays can now be applied without having to reprogram the timers in the boiler room. Moreover, a temperature can be set ad hoc for each single office, so that if staff happen to be absent the situation is managed more easily.



# Rialto is a simple and flexible system

## How the system is made up

- ✓ **Rialto WhiteBox**, the system control unit, connected to the ADSL router by way of an **Ethernet cable**
- ✓ **Up to 32 wireless devices** connectable to the WhiteBox for the management of climate control, electrical loads and energy usage
- ✓ **App “Rialto”** free for iOS / Android smartphones or tablets



## WhiteBox, power and simplicity

The WhiteBox is the control unit for the entire Rialto system, allowing the connection of wireless devices to your “Rialto” App.

Just a **few seconds** are needed to connect and configure the connection to the home router, using the **Ethernet port** and the **automatic configuration** button.

All **programming** and configuration steps performed with the App are **stored in the permanent memory of the WhiteBox**, and are guaranteed to work even if there is no Internet connection.

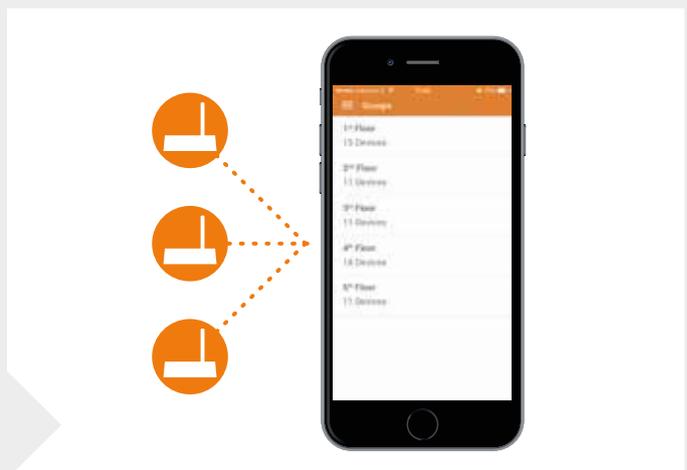


## Need to control more than one system?

Do you want to control both the home and the office heating from your smartphone? Do you want to control multiple floors/zones of a building separately? No problem, with **“MultiBox”!**

The “Multibox” function will let you **access different WhiteBoxes with the same App**.

For example, energy usage and thermostats can be managed on several floors of a small hotel by placing a WhiteBox on each floor, and similarly, WhiteBoxes can be placed at different locations (e.g. home and office, main home and holiday home, etc.)



## Want to make a detailed analysis of data collected by Rialto?

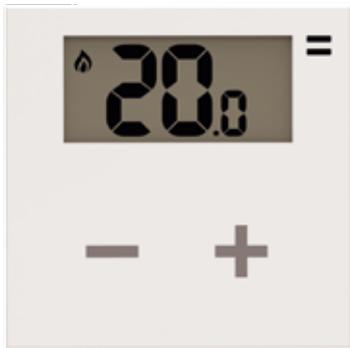
The App provides an **“Export data” function** for each single device. Data stored in the memory of your smartphone / tablet can be exported in **standard .csv format** for subsequent processing with any spreadsheet software.

# Smart Thermostat

Rialto Smart Thermostat

code

ZR-TTR2-RI



## The simple thermostat — simple for everyone

- ✓ Universal: being battery-powered, the Rialto thermostat can replace those of any traditional system
- ✓ Simple: in design and in usability
- ✓ Clear: displays all details of operating status
- ✓ Operation of bistable relay with voltage-free contact (max 5A @ 230V)
- ✓ Terminal (NC-C-NO) allowing management of systems with zone valves
- ✓ Dimensions (L x H x D) 86 x 86 x 22 mm

# Smart Meter NEW

Rialto Smart Meter

code

ZR-HM.W-RI



## Measures electricity usage: awareness is the first step in energy-saving

- ✓ Measurement of power and energy consumption in real time
- ✓ Maximum power measurement 15kW single phase
- ✓ Package includes current transformer (70A max) with 1 metre cable
- ✓ Repeater function for Rialto wireless network
- ✓ Power supply 230Vac
- ✓ Dimensions (L x H x D) 75 x 110 x 25 mm
- ✓ Wall mounting

# Smart Plug

Rialto Smart Plug

code

ZR-PLUG-EU-RI



## Program household electrical appliances and eliminate wastefulness

- ✓ Wireless power socket with built-in energy meter
- ✓ Max power 13A @ 230Vac
- ✓ Standard Schuko plug / socket
- ✓ Manual on/off button
- ✓ Status indicator Led
- ✓ Repeater function for Rialto wireless network
- ✓ Dimensions (L x H x D): 51 x 110.5 x 76 mm

# Smart Switch NEW

Rialto Smart Switch (power relay)

code **ZR-SWITCH-RI**



**Programs electrical loads and monitors how much power they are using**

- ✓ Power relay with built-in energy meter
- ✓ Max power 13A @ 230Vac
- ✓ Connection with phase, neutral and earth terminals
- ✓ Manual on/off button
- ✓ Status indicator Led
- ✓ Repeater function for Rialto wireless network
- ✓ Power supply 230Vac
- ✓ Dimensions (L x H x D) 75 x 110 x 25 mm
- ✓ Wall mounting

# Smart Relay NEW

Rialto Smart Relay (with voltage-free contact)

code **ZR-RELAY-RI**



**Remote control for all appliances with digital input**

- ✓ **Relay with voltage-free contact** WITHOUT energy meter
- ✓ Can be used as control for digital inputs
- ✓ Max load: 13A @ 230V
- ✓ Connection with terminals
- ✓ Manual on/off button
- ✓ Status indicator Led
- ✓ Repeater function for Rialto wireless network
- ✓ Power supply 230Vac
- ✓ Dimensions (L x H x D) 75 x 110 x 25 mm
- ✓ Wall mounting

# WhiteBox

Rialto WhiteBox

Included in Rialto Kit



**Rialto system control unit providing overall coordination and communication**

- ✓ Up to 32 devices connectable
- ✓ Ethernet port for direct connection to router
- ✓ ZigBee antenna for wireless communication with Rialto devices
- ✓ Power supply 5V via standard MicroUSB cable
- ✓ Dimensions (L x H x D) 110 x 35 x 70 mm

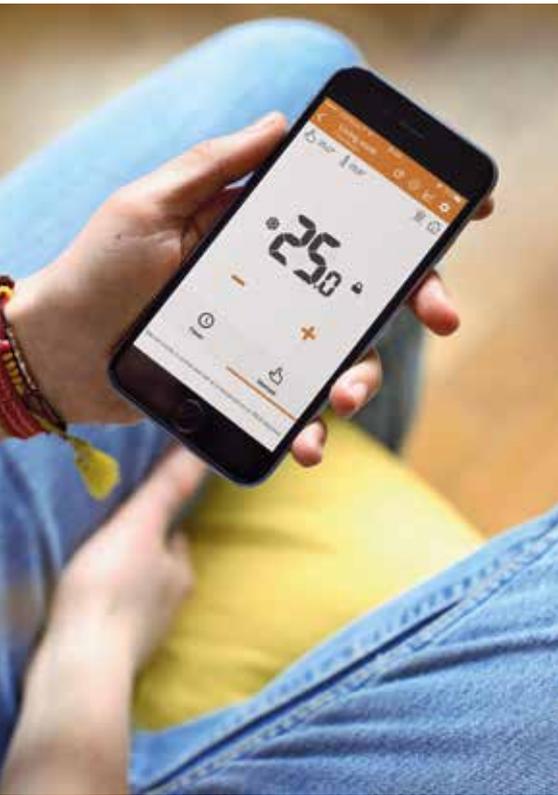
NOTE: The WhiteBox control is included in all Rialto Kits and cannot be purchased separately

# Price list

Item	Code / Name	Description	List price*
	<b>RIALTO</b> Rialto Thermo Kit	System for <b>smart management of heating</b> directly from an App on tablet and/or smartphone, even remotely. <b>The Kit comprises:</b> 1 Rialto Smart Thermostat; 1 Rialto WhiteBox	€ 199,00
 <b>NEW</b>	<b>RIALTO-MONIT</b> Rialto Kit Energy Monitor	System for <b>controlling and monitoring electrical loads and energy usage</b> directly from an App on tablet and/or smartphone, even remotely. <b>The Kit comprises:</b> 1 Rialto Smart Meter; 1 Rialto WhiteBox	€ 199,00
	<b>ZED-TTR2-RI</b> Rialto Smart Thermostat	<b>Additional wireless thermostat</b> powered by batteries (included). Requires an existing Rialto Kit, already installed	€ 95,00
	<b>TTR2-F503-RI</b> Rialto Frame 503	<b>PMMA plastic frame</b> for Rialto Smart Thermostat, compatible with standard 503 flush-mounting back boxes. Suitable where an existing flush-mount thermostat is to be replaced.	€ 15,00
 <b>NEW</b>	<b>ZR-HM.W-RI</b> Rialto Smart Meter	<b>Power and energy meter</b> using split core CT (70A), measuring up to 15kW single phase. Power supply 230Vac Wall mounting. Requires an existing Rialto Kit, already installed	€ 99,00
	<b>ZR-PLUG-EU-RI</b> Rialto Smart Plug	<b>Additional smart wireless socket</b> (standard Schuko type). Built-in power and energy meter. Resistive load max 13A @ 230V. Requires an existing Rialto Kit, already installed	€ 75,00
 <b>NEW</b>	<b>ZR-SWITCH-RI</b> Rialto Smart Switch	<b>Additional smart wireless relay.</b> Built-in power and energy meter. Resistive load max 13A @ 230V. Power supply 230Vac Wall mounting. Requires an existing Rialto Kit, already installed	€ 75,00
 <b>NEW</b>	<b>ZR-RELAY-RI</b> Rialto Smart Relay	<b>Wireless relay with voltage free contact.</b> Resistive load max 13A @ 230V. Power supply 230Vac Wall mounting. Requires an existing Rialto Kit, already installed	€ 67,00

\* All prices excluding VAT

Price list valid nationwide (Italy) from 01.07.2017 / This price list cancels and replaces previous lists



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