Smart
Simple
Sustainable

Halo Smart Living, a system of
integratable solutions
for the smart home.
For a green and reliable home
that fits in with your lifestyle.

HALO
Smart Living

Spotlights
"50% light"
50W

Curtains
"80% open"

Audio system
"30% volume"
30W

Television
"off"
0W

Floor
lamp
"100%
light"
60W

"Alexa,
I want to
read."

The smart home
according to Halo Smart Living®:
a world of solutions,
all allowing integration
with one another.

We have been involved in the electronics sector for more than thirty years, and always with a single overriding aim: to make the smart home a practical reality, for everyone. The smart systems and IoT applications we offer are installed and configured quickly and easily, and ready for immediate use.

It is our belief that to be genuinely smart, a home must incorporate an ecosystem of devices that can be fully integrated with one another and **managed conveniently by way of a single interface**, able to communicate with more and more things and systems.

Our eyes are fixed on horizons that continue to expand, so we do not want to be concerned only with solving minor everyday problems. This is why we have come up with Halo Smart Living as a system capable of managing all components in any dwelling.

Halo technology and devices are entirely designed and manufactured in Italy.

4

The advantages of living in a connected home.

A smart home is a future-proof home. A home allowing the occupant to keep energy usage under control and manage all the various devices by way of an App or a voice command. A home that is safer, greener, more comfortable and technological, and adaptable to your particular lifestyle.Halo Smart Living is precisely this: a non-invasive, almost invisible ecosystem of smart functionalities that you can shape around your preferred routine; also, a system **that can be integrated seamlessly into any kind of electrical installation, without replacing anything.**

Simple to install, configure and use.

Intuitive interface for easy and immediate use.

Requires no changes to the electrical system.

Compatible with any existing installation.

Self-consumption of solar energy.

Integration with Halo Smart Solar, the photovoltaic selfconsumption system.

Compatible with things around the home.

Adding our Halo Smart Living devices, any item in the home can become smart.

Zigbee, the international communication standard ideally suited to home automation.

Our devices use this **low-power radio technology**, which affords practically limitless scope for building wireless mesh networks and flexible systems characterised by maximum interoperability.

Accurate measurement of electrical energy usage.

Controls consumption and pilots load modulation.

Halo Echoback

Innovative Echoback® function.

Monitors system energy levels, controls effective activation of commands and operation of the system, generating alerts in the event of abnormalities.

Integration with popular voice assistants.

Easily integrated with systems like Amazon Alexa and Google Home.
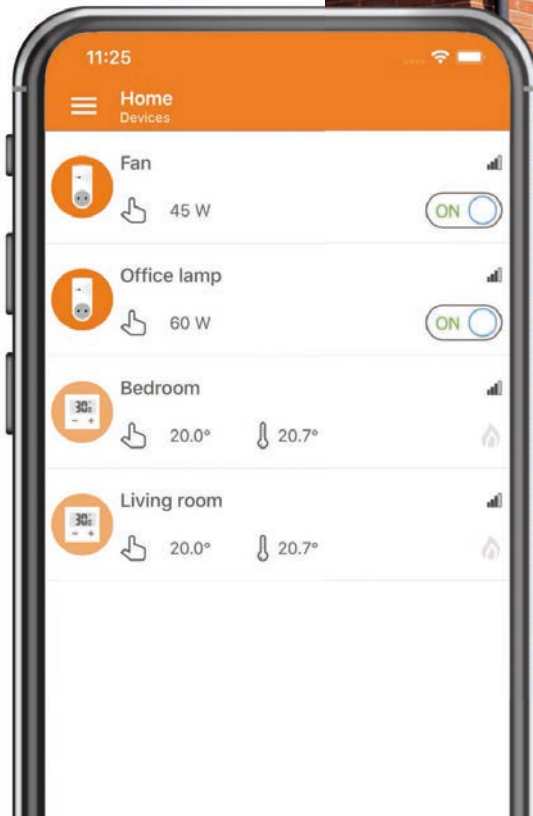
Complete and integrated energy management.

Monitors energy produced and consumed, and storage systems.

Converts the home, not the electrical system.

works with the
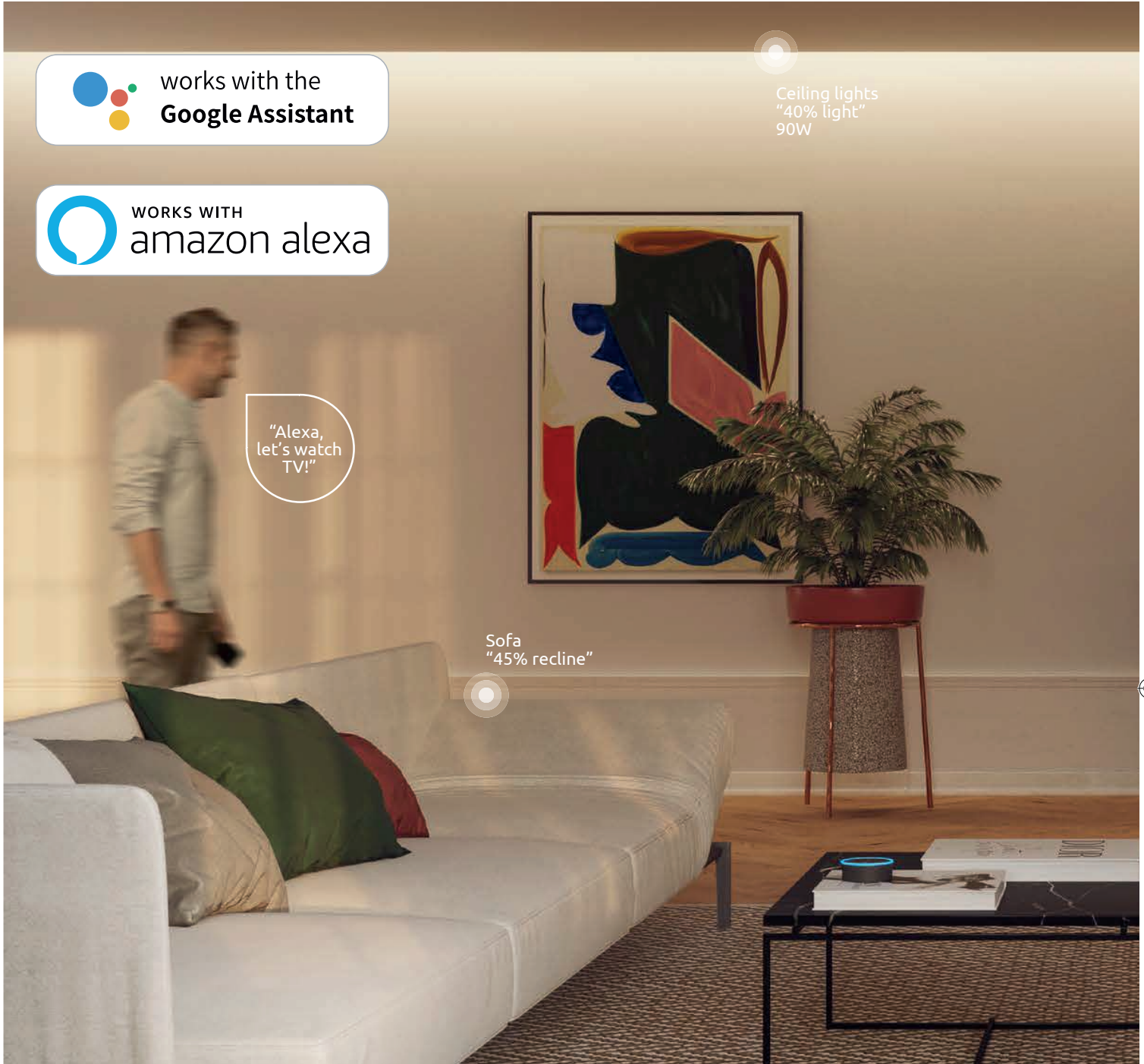**Google Assistant**

WORKS WITH
amazon alexa

Halo Smart Living is so smart it's almost invisible.

Our products are **used in conjunction with existing devices to make them smart** and provide more ways of controlling them. The effect is to create a wireless network allowing full cooperation between the various systems of the series that are installed. Lights, blinds, curtains, watering... all under the same control.
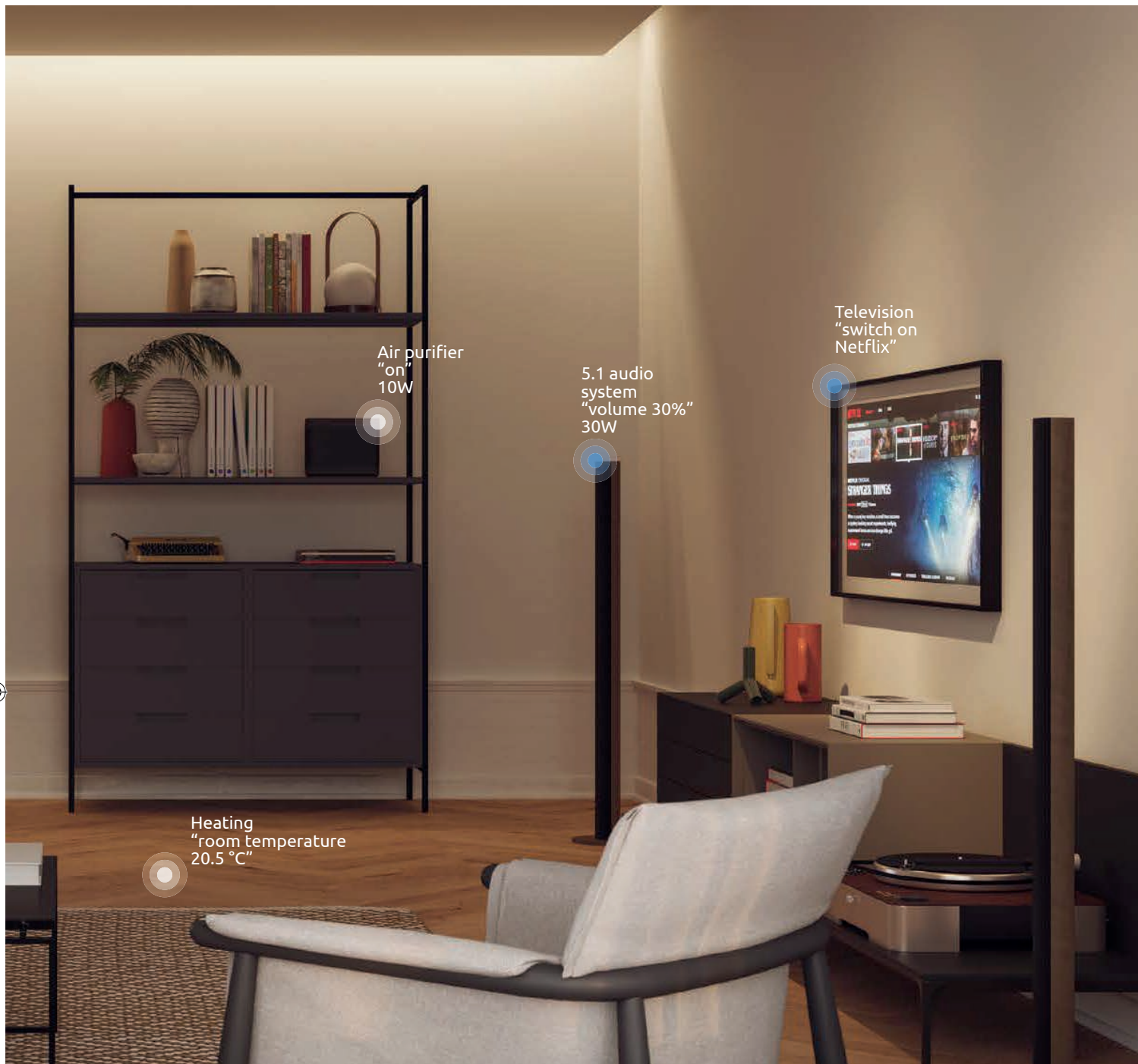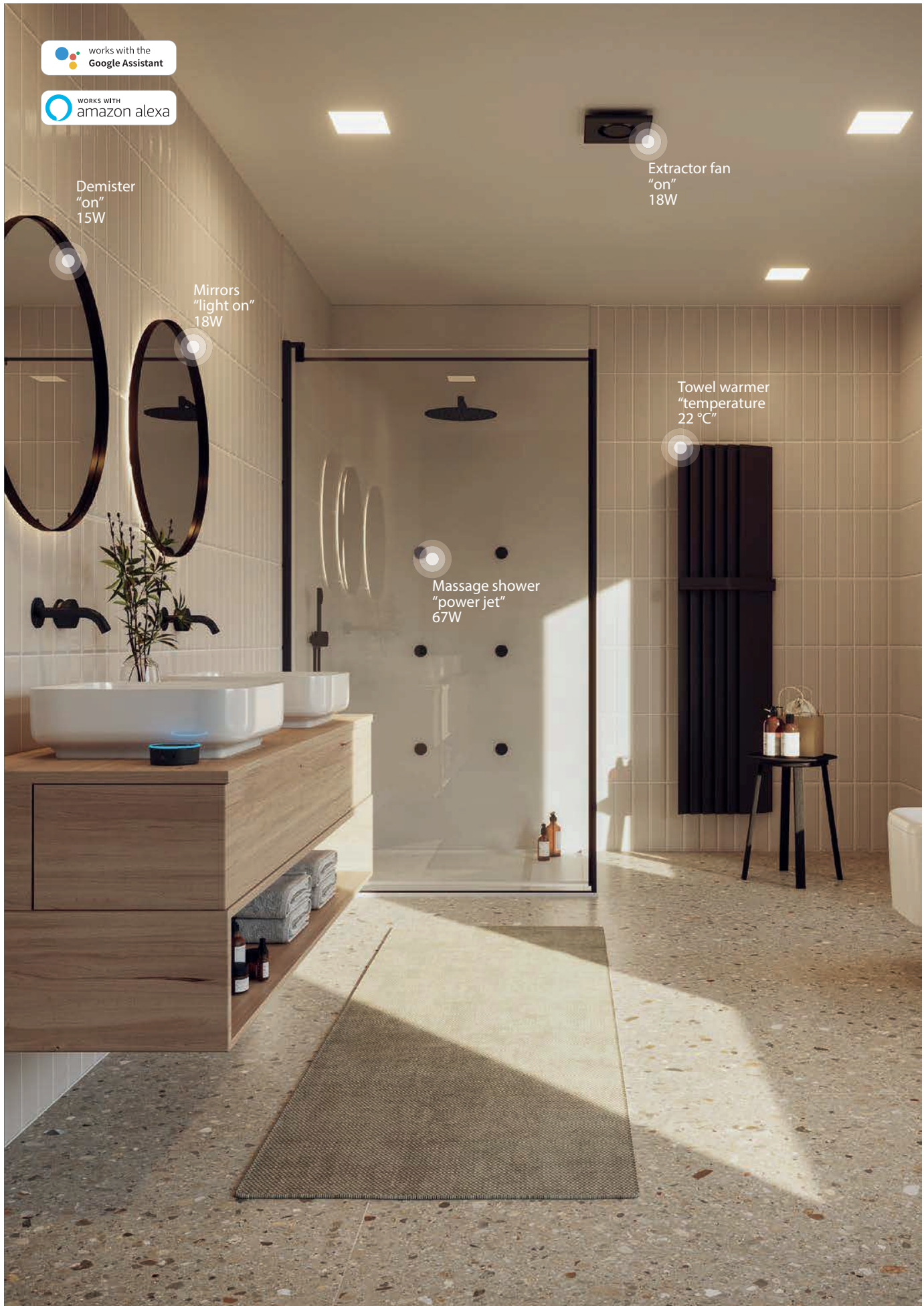
works with the
Google Assistant

WORKS WITH
amazon alexa

Ceiling lights
"40% light"
90W

"Alexa,
let's watch
TV!"

Sofa
"45% recline"

From living room to smart room:
the intelligent living room.

Air purifier
"on"
10W

5.1 audio
system
"volume 30%"
30W

Television
"switch on
Netflix"

Heating
"room temperature
20.5 °C"

The living room is the part of the home made for relaxation and lounging on the sofa, or organising evenings with friends. The lights, the TV, sound system, air purifier and underfloor heating can all be controlled in a matter of seconds from a single platform and using just one voice command.

This is what a smart home is all about: **simplifying everyday activities and improving the quality of life** enjoyed by people.

works with the
Google Assistant

WORKS WITH
amazon alexa

Demister
"on"
15W

Mirrors
"light on"
18W

Extractor fan
"on"
18W

Towel warmer
"temperature
22 °C"

Massage shower
"power jet"
67W

IoT in that most private of places: the bathroom.

With Halo Smart Living, even the bathroom can be turned into a smart environment. **Using a simple voice command, you can control** the extractor fan, lighting, towel warmer, whirlpool tub and massage shower, as well as keeping **an eye on the energy they all use**.

If the system is integrated with Halo Smart Solar, hot water can be produced by self-consuming energy sourced from your own photovoltaic system. In short, free hot water, lower fuel bills, and an environment-friendly home.

A healthier and greener home

With Halo Smart Living connected to the **Halo Smart Solar** system, selfconsumption can be exploited to keep the bathroom just as you like it, using exclusively renewable energy.
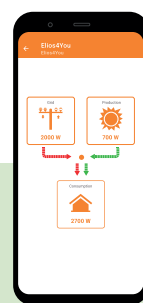
Heating, sanitisng, dehumidifying and ventilation appliances can be operated automatically and at no cost. And if you have an electric water heater, there will be free hot water too!

A smart kitchen is a functional kitchen.

The kitchen is the heart of the home, where the family comes together. A place we see as practical, comfortable and inviting. **With a simple vocal command, even a complex process can be set** in motion automatically.

Oven
"temperature
220 °C"
800W

Extractor hood
"turbo mode"
265W

Air
conditioning
"temperature
22 °C"
100W

Coffee
maker "on"
10W

"Alexa,
time for
lunch."

Do you want to turn on the extractor hood even though your hands are busy? To find the oven hot when you get home from work? The curtains drawn and the shutters down? To have your coffee ready in the morning? Or turn on the music you like while you're cooking? **With Halo Smart Living, all this become easier than ever before.**

From day one, you can enjoy sweet dreams: the bedroom has become smart.

Those daily routines, morning and evening, **are condensed into just a few quick commands**. The window shutters roll up and roll down automatically, in coordination with activation of the air conditioning to freshen up the room.


Routine at 21:45 "Go to sleep."

Floor lamp "40% light" 18W

Blinds "close 100%" 18W

Motorized bed "inclination 0%" 18W

The bed is motorised to guarantee total comfort and the lights are dimmable, so that the level of brightness in the room can be modulated, and blinds or curtains can be opened and closed whenever it suits, even if you're out and about.

Our **Halo Smart Living system adapts to the lifestyle** of people, helps with management of the home in real time and remotely, **reduces the environmental impact** of energy usage and increases the potential of a technology available to everyone.

Not only a smart home. The ideal system for workplaces too.

The Halo Smart Living system is also ideal for offices, B&Bs and other small businesses or agencies. A smart system **can make the workplace a safer and more functional environment,** where energy consumption is monitored continuously, fully optimised and geared to the nature of the activity and the number of people involved.

Routine
7:50 "Start work."

Air recycle
"on"
18W

Fan coil unit
"22 °C"
18W
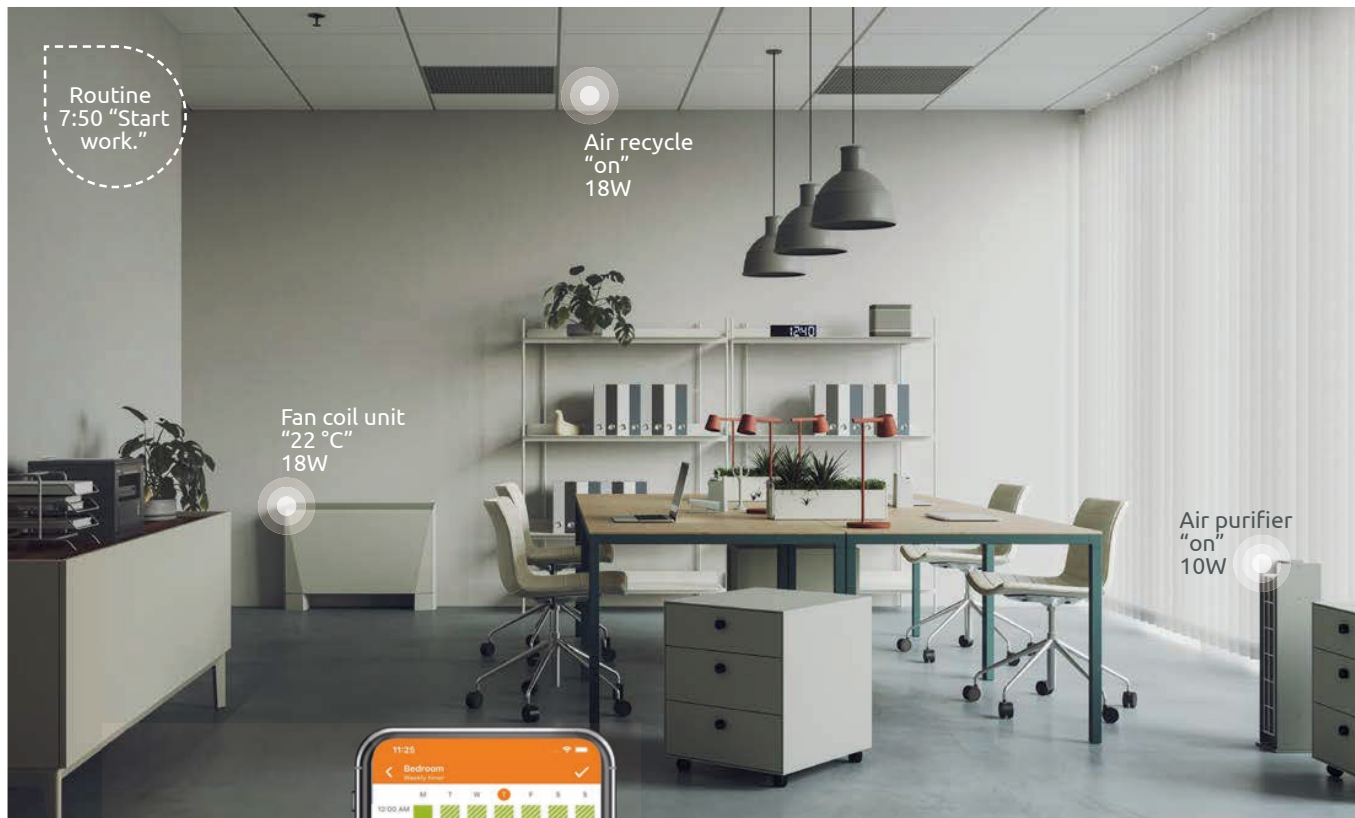
Air purifier
"on"
10W

Air handling and HVAC systems, air purifier, monitoring of energy usage: everything is brought under smart control, to create a flexible place of work, adaptable to the needs and preferences of its professional occupants.

Halo Smart Living
echoba**ɔ**k

Did it really close?

No more worries with Echoback®.

With Halo Smart Living you can rest assured. Our system includes a genuinely unique feature: Echoback®. This special functionality **tells you whether or not a command** given from the App **has in fact been carried out.**

Drive gate
"shut"
0W

Garage door
"error"
415W

Garden lights
"off"
0W

Garden gate
"shut"
0W

"warning, garage door jammed."

WARNING!
Garage Door Jammed
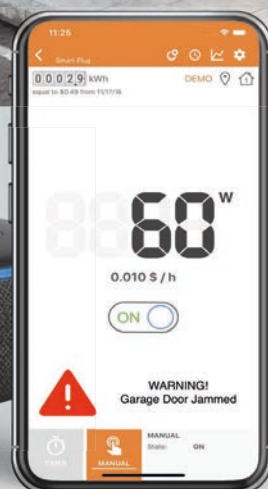
Is the heating actually working? Will the lights really have been switched off? Has the dishwasher started up? With Echoback®, there will be no more doubts of this kind. If the garage door gets stuck, a light bulb burns out or the boiler fails to start up, Halo Smart Living will warn you without delay, generating a voice alert or a message on your smartphone.

No end of applications

Transform

Traditional thermostat

Converted to smart by replacing with a Halo Smart Living thermostat, with no change to the system

Chronothermostat

Get smart by replacing it with a Halo Smart Living chronothermostat, without modifying the system

Radiator

Converted to smart by adding a wireless thermostatic valve

Towel warmer

Converted to smart by adding a Halo Smart Living wireless relay

Fan coil unit

Converted to smart with a Halo Smart Living Fandree plus thermostat

Motorised roller blind

Converted to smart with an HaloMiniModule Shutter module, retaining the wall mounted pushbutton controls

Transform

Motorised shutter

Converted to smart with an HaloMiniModule Shutter module, retaining the wall

Lighting

The lights and the brightness level can be managed in smart mode using HaloMiniModule wireless modules, retaining the existing switch.

Electric water heater

Converted to smart with a wireless module for programming on/off times and with operation using solar energy

Safety solenoid valve

In the event of leaks or freezing temperatures, increased safety is assured by a smart and remote control that shuts off the water supply

Power socket

Converted to smart by connecting to HaloMiniModule housed internally of the socket itself

Motorised awning

Converted to smart with a wireless HaloMiniModule Shutter module, retaining the wall mounted pushbutton controls

There are two possible approaches to adopt when turning a home into a smart home: **conversion or integration.** In the former instance, modules and devices can be added to things to make them smart. In the latter, on the other hand, by building Halo technology natively into the system or the device, this will already be integrated with Halo Smart Living when deployed.

Conversion

Pool pump

Filtration becomes programmable in smart mode, ensuring the pool stays permanently clean and at lower cost

Watering

Converted to smart using wireless HaloMiniModule that will activate solenoid valves and irrigation pumps to best advantage

Electric gate/door lock

Converted to smart installing an HaloMiniModule in parallel with the wallmounted push button

Motorised garage door

Installing a HaloMiniModule in parallel with the traditional wall-mounted open/close pushbuttons

Electric vehicle battery charger

With the HaloMiniModule and the Elios4you system, an electric car can be recharged using solar energy

Monitoring of leaks and high temperatures

Using easy-to-install smart strip sensors, the building can be monitored for damp and abnormal temperatures

Integration

Room sanitiser

Using Halo ® technology, your air sanitiser is turned into a smart device and integrated into the Halo Smart Living System

Recliner

Using Halo ® technology, your reclining armchair is turned into a smart device and integrated into the Halo Smart Living system

Motorised bed

Using Halo ® technology, your motorised bed frame is turned into a smart device and integrated into the Halo Smart Living system

Extractor hood

Using Halo ® technology, your kitchen extractor hood is turned into a smart device and integrated into the Halo Smart Living system

Fans

Using Halo ® technology, your forced air ventilation or extraction system is activated in smart mode and integrated into the Halo Smart Living system
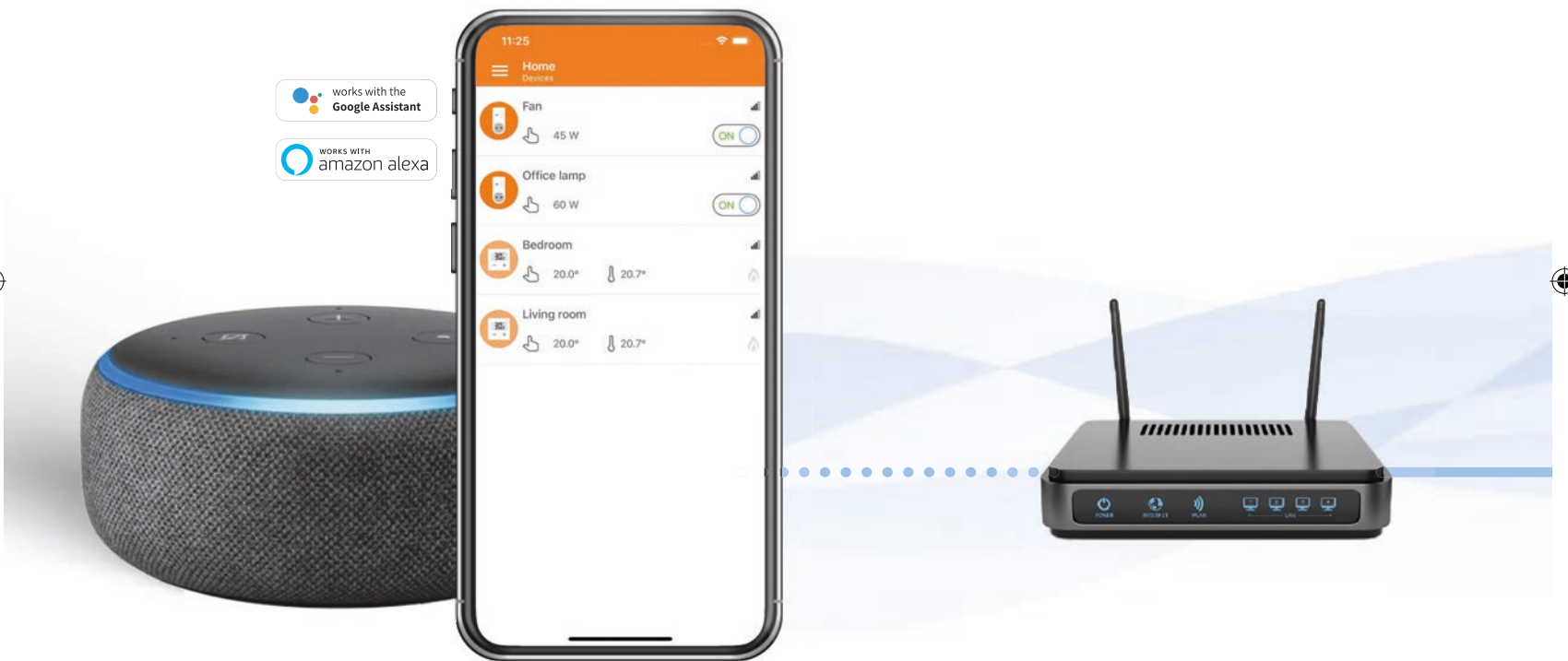
Mirror

Using Halo ® technology, your mirror with built-in light and demist is turned into a smart device and integrated into the Halo Smart Living system

Easy to install, even easier to configure.

works with the
Google Assistant

WORKS WITH
amazon alexa

Just a few simple but powerful connections finally make living in a smart home a reality. The green home that adapts to your lifestyle.

With the Halo Smart Living system, **installation and configuration procedures are simplicity itself.** Any dwelling can be turned into a true smart home in a matter of minutes, and **anyone can do it.**

Simply connect the Smart hub to the router installed in the home, then with the aid of the Halo Smart Living App or your favourite voice assistant, you can start living straight away in the **smart home of the future** and organise everything just how you want it.
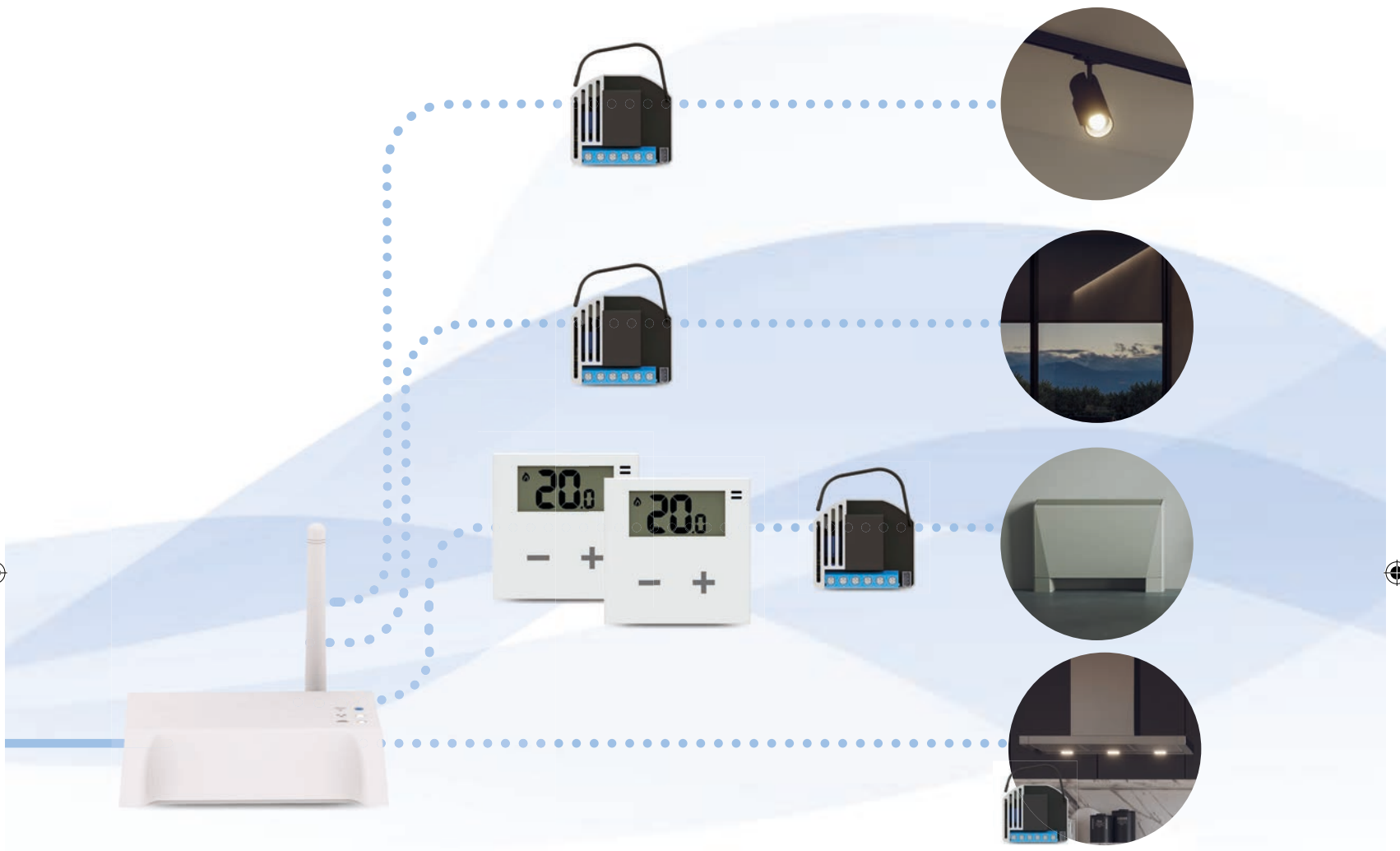
Controlling the lights, room temperature, watering system, household electrical appliances... Now it will all be possible with a tap of the finger or a voice command.

By creating routines, you can make the most of IoT technology and optimise your energy usage: operation of the awning is piloted by the ambient light sensor, the shutters are lowered to limit the impact of direct sunlight, and the thermostat-controlled air-conditioning system runs on energy provided by your solar panels.

"Alexa, cool the living room"

Routine

Thermostat   Shutters   Air conditioning
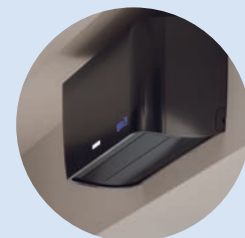
One App to control everything.
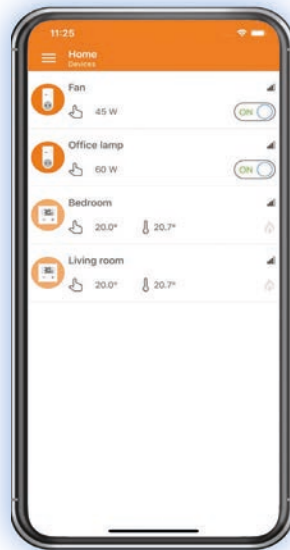
Total control over all smart components of the system, in real time.
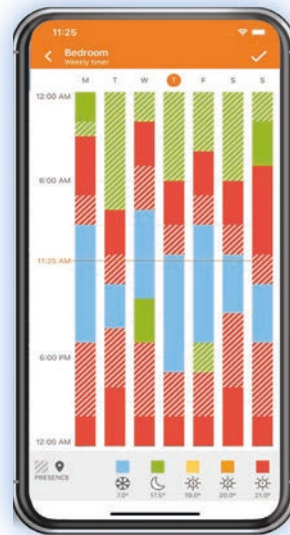
Seven day program selectable independently for each single device.

Immediate check on effective outcome of commands, with alert if not successful.

works with the **Google Assistant**

WORKS WITH
amazon alexa

In the case of integration with Halo Smart Solar, programs can be organised on the basis of energy put in or drawn from the electricity grid.
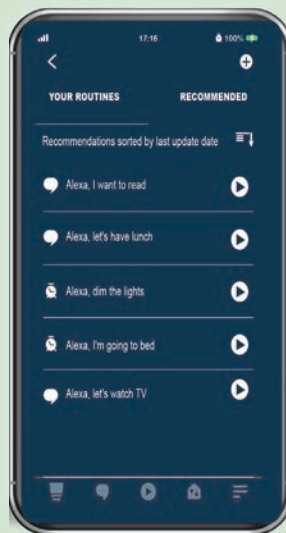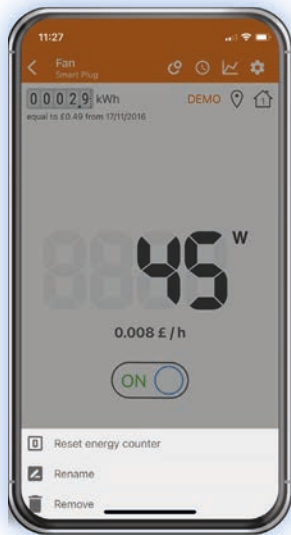
Creation of preset dedicated programs based on habits, routines and everyday activities.

Real time display of PV energy production, energy usage and connection to grid.

Real time display of energy consumption with meter reading in kWh and £.
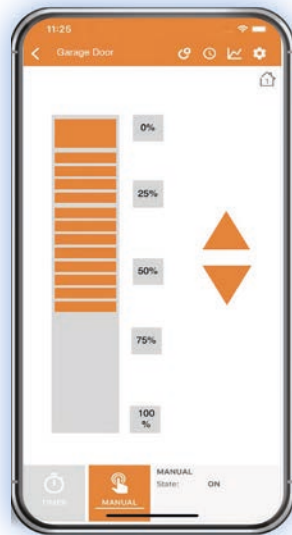
Opening and closing movement of motorised shutters, total or partial, programmable with timer.

With the App, all the rooms and all the things present in the smart home **can be managed easily** and with a few finger-taps. With the clean and uncomplicated interface, the creation of customised programs, the tracking of energy usage and the speed of response even when controlled remotely... management of the home could not be simpler.

Programs can be based on geolocation, so as to optimise energy consumption.
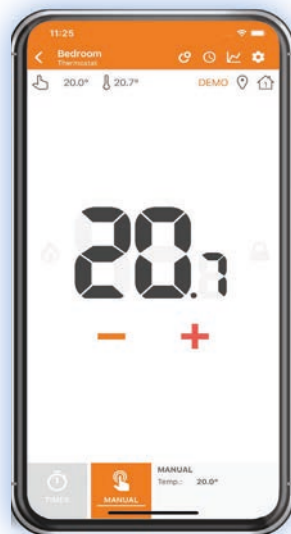
Check on heating/cooling temperature and programming data.
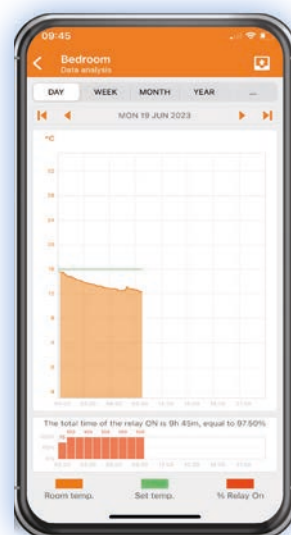
Control of heating system: on/off status, set temperature and measured temperature.

Smarthub

works with the
Google Assistant

WORKS WITH
amazon alexa

Control unit of the Halo Smart Living system, configurable via App, allowing the user to manage multiple ZigBee devices, save settings and store operating data.

Technical data

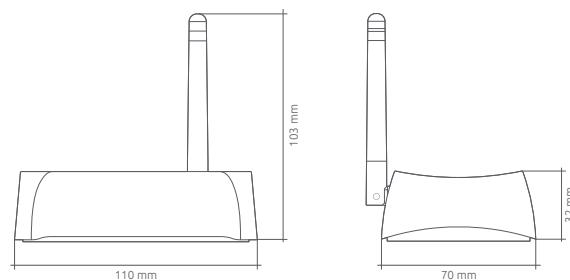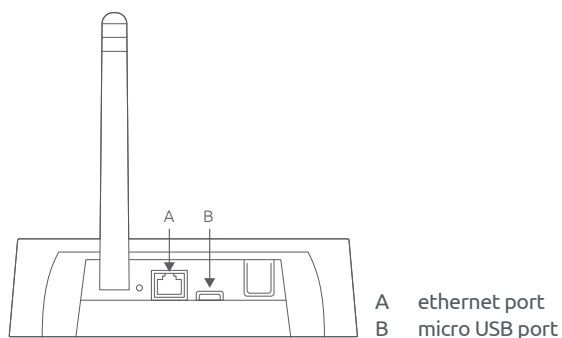| Code	SH02026SH
General specifications	**Gateway Ethernet-ZigBee to connect to the router**
Power supply	**5 V= 0.4 A, 2 W supplied power supply**
Connections	**Nr. 1 ethernet port RJ45;** **Nr. 1 micro USB for feeding**
Max n° Rialto devices supported	**32**
Status display	**Nr. 3 LED operation diagnostics**
Router compatibility requirements	**DHCP server function enabled in the router** **UDP Broadcast" function enabled in the router** **Internet connection active**
Radio specifications	**2405 MHz ÷ 2480 MHz**
Radop range	**Up to 20m indoors**
Zigbee profiles	**Home Automation Profile**

Plus points

• Immediate configuration on local network by virtue of ethernet connection to router
• ZigBee network coordinator with external antenna for high radio range
• Data of connected devices saved to log

App-controlled functions

• Multibox: facility of controllingmultiple hubs from the same App/Account
• Compatible with Amazon Alexa™ and Google Home™ voice assistants
• Compatible with Halo Smart Solar

Technical drawings

A   ethernet port
B   micro USB port

103 mm

110 mm

32 mm

70 mm

HaloMiniModule 1RD

Flush-mounting module with dry contact relay

Flush-mounting wireless module with 1 voltage-free contact, coupled with existing manual controls (conventional or pushbutton switches) to enable smart management of any device with digital input or electrical loads (on/off).

Technical data

Code	SH03126D1RDHA (dry contact relay)
Power supply	110 - 240 VAC ±10%, 50/60 Hz, (24-30 VDC)
Rated current of a.c./d.c. load (resistive load)*	1 X 10 A
Rated power of load (resistive)	2400 W (240 VAC), 1100 W (110 VAC), 240 W (24V DC)
Radio range	2405 MHz ÷ 2480 MHz
Radio range	Up to 20m indoors
Zigbee profiles	Home Automation Profile (HA1.2)
Power consumption	0.4 W
Rialto network radio repeater function	Yes
Degree of protection	IP20

*) In the case of a non-resistive load, be sure to verify cos φ value and, if necessary, apply a load of less than the nominal rated value.

Plus points

• Compact dimensions: suitable for all back boxes
• Compatible with all types of switches pushbuttons, regardless of brand
• Flexibility of application thanks to dry contact relay

Typical applications

• Remote boiler contact, operation of contactors, contact for digital inputs, integration with third party systems

App-controlled functions

• Manual or programmed on/off control
• Programming with photovoltaic self-consumption function (requires installation of Halo Smart Solar)
• Programming with geo function
• Configuration of bistable or monostable output (1s – 15min)

Technical drawings
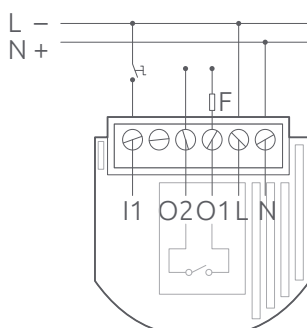
N   Neutral (+Vdc)
L   Phase (Ø V)
O1   Electrical load power input
O2   Electrical load power output
I1   Input n° 1 connected to wall switch
F   Fuse 10 AT/250 V

36.8 mm
41.8 mm
16.9 mm
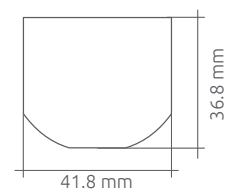
HaloMiniModule 1R/2R

Flush mounting module with single/dual relay

Flush mounting module with 1 or 2 x wireless relay, coupled with existing manual controls (conventional or pushbutton switches) to enable smart management of electrical loads (on/off).

Technical data

Code	**SH03126F1RHA (towards. 1 rel) - SH03126F2RHA (towards. 2 rel)**
Supply voltage	**110 - 240 VAC ±10%, 50/60 Hz, (24-30 VDC)**
Rated current of a.c./d.c. load (resistive load) *	**SH03126F1RHA (towards. 1 rel): 1 X 10 A SH03126F2RHA (vtowards. 2 rel): 2 X 4 A**
Rated power of load (resistive) *	**SH03126F1RHA (towards. 1 rel): 2300 W (240 VAC), 1100 W (110 VAC), 240 W (24V DC) SH03126F2RHA (towards. 2 rel): 2 X 940 W (240 VAC), 2 X 440 W (110 VAC), 2 X 96 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**
Halo Smart Living network radio repeater function	**Yes**
Degree of protection	**IP20**

*) In the case of a non-resistive load, be sure to verify cos φ value and, if necessary, apply a load of less than the nominal rated value.

Plus points

• compact dimensions: suitable for all back boxes
• compatible with all types of switches/pushbuttons, regardless of brand
• built-in precision energy meter

App-controlled functions

• Various control options including manual and/or timer and/or voice assistant
• Display of instantaneous or historical energy consumption
• Energy meter with usage calculation, resettable
• Compatible with Halo ® Echoback® function

Technical drawings

L −
N +
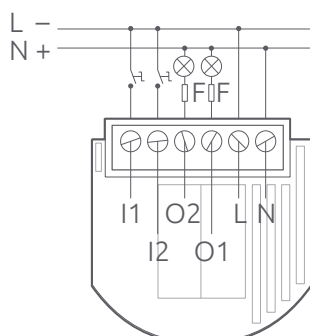
N   Neutral (+Vdc)
L   Phase (Ø V)
O1 Output connected to electrical load n° 1
O2 Output connected to electrical load n° 2 **(2R version only)**
I2   Input connected to wall switch n° 2 **(2R version only)**
I1   Input connected to wall switch n° 1
F   Fuse 4 AT/250V (2R version) - 10 AT / 250V **(1R version)**

I1   O2   L   N
I2   O1
F F

36.8 mm
41.8 mm
16.9 mm
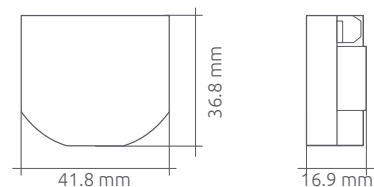
HaloMiniModule Shutter

Flush-mounting module for motorised shutters

Flush mounting module for smart management of motorised shutters/blinds, in conjunction with existing interlocked switch or pushbutton controls.

Technical data

Code	SH03426FSHTHA
Power supply	1110 - 240 VAC ±10%, 50/60 Hz, (24-30 VDC)
Rated current of a.c./d.c. load (resistive load)*	2 X 4 A (240 VAC)
Rated power of load (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
Halo Smart Living network radio repeater function	Yes

*) In the case of a non-resistive load, be sure to verify cos φ value and, if necessary, apply a load of less than the nominal rated value.

Plus

• 2 x 4 A / 230 V relay (resistive load)
• compatible with all back boxes
• Energy meter with usage calculation, resettable
• Compatible with Halo ® Echoback®
• function

Functions via App

• Remote control of tubular electric motors with the two directions of rotation (Up/Down) powered separately for:
• Shutters
• Folding arm awnings
• Roller blinds
• Projection screens

Technical drawings
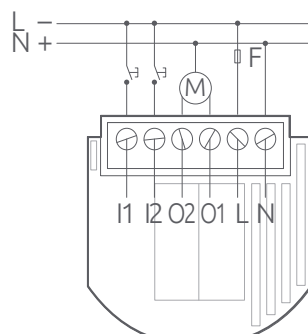
N   Neutral (+Vdc)
L   Phase (Ø V)
O1 UP motor output
O2 DOWN motor output
I1   UP pushbutton input
I2   DOWN pushbutton input
F   Fuse 4 AT/250V

36.8 mm

41.8 mm   16.9 mm
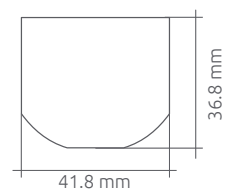
HaloMiniModule Dimmer

Flush-mounting dimmer

Wireless flush mounting module used to control lighting with dimmable lamps, allowing smart management of one or two manual pushbuttons.

Technical data

Code	SH03126FDIMHA
Supply voltage	110 - 240 VAC ±10%, 50/60 Hz, (24-30 VDC)
Rated currend of a.c./d.c. load (resistive load) *	0.6 A / 240 VAC , 0.85 A / 30 VDC
Rated power of load (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
Halo Smart Living network radio repeater function	Yes

*) In the case of a non-resistive load, be sure to verify cos φ value and, if necessary, apply a load of less than the nominal rated value.

Plus points

• Rated power 140 W / 230V max
• Compatible with dimmable incandescent, halogen and Led lamps
• Retains management using manual pushbutton control
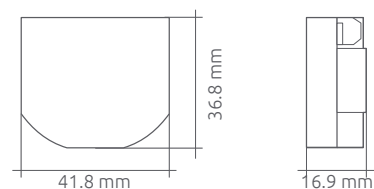• Suitable for all back boxes

App-controlled functions

• Manual or automatic remote control
• Operation with voice commands using Amazon Alexa™ and Google Assistant™
• Daily and weekly programming via
• App, with facility of setting different brightness levels
• Display of energy consumption (instantaneous and historical)

Technical drawings
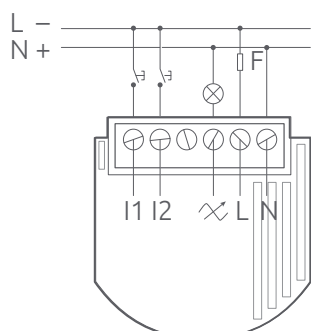
N   Neutral (+VDC)
L   Phase (Ø V)
⚡   Output connected to electrical device
I2   Wall switch n° 2
I1   Wall switch n° 1
F   Fuse 630 mA / 250 V

36.8 mm
41.8 mm
16.9 mm

Fandree

Module for fan coil units
3 speeds and 0-10V

Wireless module enabling smart management of fan coil units with no changes made to the existing system. Installation of a Halo Smart Living thermostat is required.

Technical data

|	
Code	**SH03126FANDHA**
Supply voltage	**100 - 240 VAC ± 10% 50/60 Hz**
Outputs	**3 x speed relay**
	1 x valve logic relay
	1 x 0-10V output
Maximum rated current of a.c./d.c. load	**4 x 5 A @ 240 VAC / 4 x 5 A @ 30 VDC**
Rated power of load (resistive or inductive)	**1385 VA @ 230 VAC power factor 0.4 min**
	150 W @ 30 VDC
Inputs	**1 x external NTC probe input**
	1 x Aux input
Physical interface	**1 x Service button**
	1 x Indicator Led
Radio specifications	**2405 MHz ÷ 2480 MHz**
Radio range	**Up to 20 m indoors**
ZigBee profiles	**Zigbee HA 1.2**
Power consumption	**0.8 W**
Wireless repeater	**Yes**

Plus points

• Provides smart management of traditional fan coil units*
• Control of multiple fan coil units with single thermostat
• Compatible with fan coil units having 3 speeds or 0-10V input
• Auxiliary input

Functions via app *

• Remote control
• Seven-day programming of temperature and speed
• Logical pairing of one or more fancoil modules

*requires pairing with a Rialto thermostat to enable programming

Technical drawings
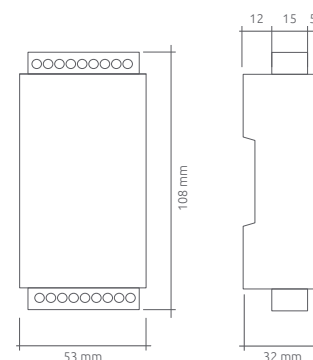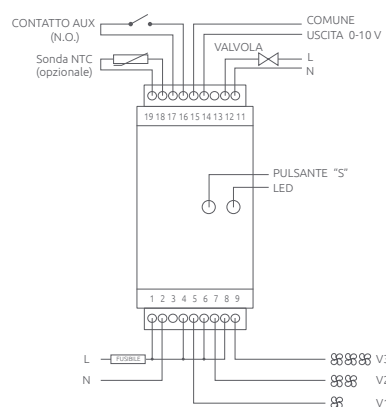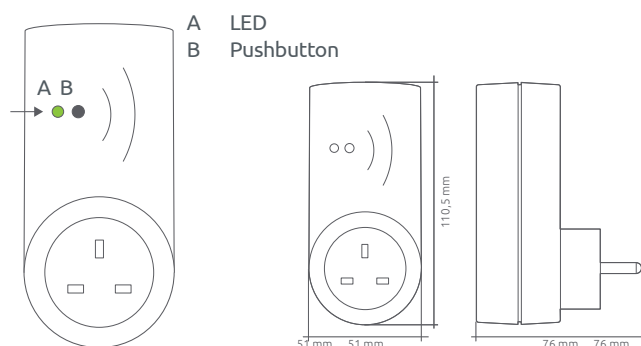
Smart Plug

Wireless passthrough socket

The Halo Smart Plug is a multifunction, compact and easy to use device that enables users to monitor and control household electrical appliances in their homes from any location anywhere. Thanks to the facility of seven-day programming, energy can be saved while people are out at work, or sleeping. In addition, users can easily check on energy consumption or switch the connected device on and off.

Technical data

Code	**SH02226PLGUK**
General specifications	**ZigBee wireless pass-through socket, Schuko standard with built-in energy meter**
Power supply	**90/230 VAC; 1 W; 50/60 Hz**
Measurements	**Power consumption [kWh]; active power [W]**
Control relay	**Contacts 230 VAC; max 13 A (resistive load)**
Radio specifications	**2.4 GHz**
Radio range	**Up to 20 m indoors**
ZigBee profiles	**Zigbee HA 1.2**
Zigbee network repeater function	**Yes**
Degree of protection	**IP30**

Technical drawings

A   LED
B   Pushbutton

110,5 mm

51 mm   51 mm   76 mm   76 mm

Smart Relay/Switch

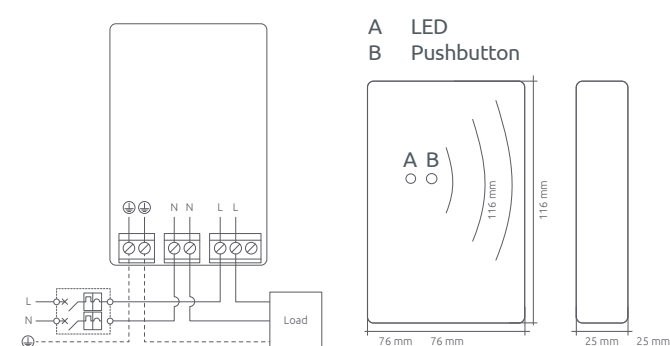**Wall-mounting wireless module with dry/normal relay contact**

Halo Smart Living wall-mounted Smart Relay/Switch devices are equipped respectively with a voltage-free/live output contact and used to control a compatibly configured electrical load/appliance.

Technical data

Code	**ZR-RELAY-RC (voltage free contact)** **ZR-SWITCH-RC (live contact)**
General specifications	**ZigBee wireless SPST switch, with built-in energy meter***
Power supply	**90/230 VAC; 1 W; 50/60 Hz**
Measurements	**Power consumption [kWh]*; active power [W]***
Control relay	**Contacts 230Vac; max 13A (resistive load)**
Radio specifications	**2.4 GHz**
Radio range	**Up to 20 m indoors**
ZigBee profiles	**Zigbee HA 1.2**
Zigbee network repeater function	**Yes**
Degree of protection	**IP30**

* ZR-SWITCH-RI only

Technical drawings

A   LED
B   Pushbutton

N N   L L

L
N
Load

116 mm

116 mm

76 mm   76 mm   25 mm   25 mm

Thermostat

Battery-powered wireless thermostat

Battery-powered wireless thermostat with dry contact relay and manual controls, allowing lockout of keypad (from App) and summer/winter operating mode.

Technical data

Code	SH02126
General specifications	**Battery-powered wireless thermostat with display and touch technology**
Power supply	**Alkaline battery (2x) AA 1.5V** **Battery life: >2 years**
Control relay	**NC/COM/NO contacts 250V 5A Cos(Φ)=1 resistive load**
Temperature	**Setting range: +7 – 50 °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**
Degree of protection	**IP30**

Technical drawings

NO COM NC

86 mm

86 mm

22 mm

Plus points

• Battery powered
• NC-C-NO dry contact relay
• Wall mounting
• Summer/winter function
• Keypad lockout function
• Master function allowing activation of 1 or more connected devices (relays and/or thermostatic valves)

App-controlled functions

• Manual control or seven-day programming
• Programming based on geolocation
• Programming with self-consumption function (requires installation of Halo Smart Solar)
• Temperature and usage graph (for energy consumption analysis)

Danfoss Ally™

The Zigbee radiator thermostat

code: SH02126DNF

The Zigbee-certified Danfoss Ally™ thermostat for radiators is completely integrated with the Halo Smart Living system and easily managed. Installation requires a mere 30 seconds!

It can be programmed independently or manually using the hand wheel, button and built-in LCD display, or interlocked to a Rialto thermostat (slave configuration).

The thermostat is powered by batteries which, thanks to lowpower Zigbee technology, will last up to two years.

Various adaptors are available on the market to fit thermostatic valves in widespread use.

Energy Meter 1~

Single phase Energy Meter

Wireless power and energy meter for single-phase systems/loads, featuring ease of installation thanks to the split core current transformer utilised.

Technical data

| Code	SH02326HMW (wall mounted)
	SH02326HMW (DIN rail mounted)
Power supply	90/230 Vac 50/60 Hz; 1 W
Max measurable power	15 kW
Reading mode	Split core Current Transformer (CT - included)
Active power	[W]
Active energy	[kWh]
Radio specifications	2.4 GHz, ZigBee HA 1.2
Rialto network radio repeater function	Yes
Degree of protection	IP30

Plus points

• wireless monitoring of energy usage by way of App
• simple installation with no disruption of system
• split core current transformer (CT)
• power measurement up to 15kW

App-controlled functions

• instantaneous power consumption display
• usage log display
• resettable energy meter providing energy cost estimate expressed in €
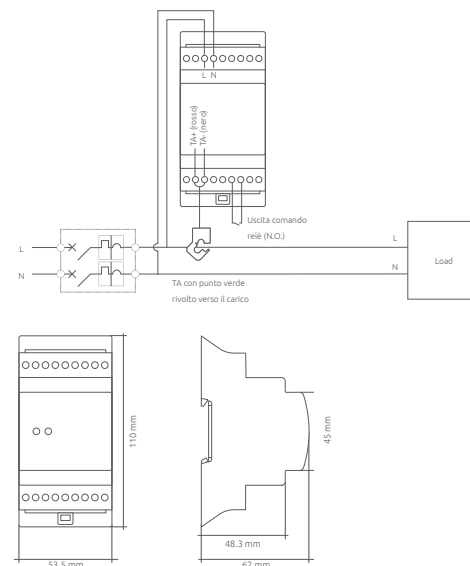
Technical drawings
ZR-HM.W-RI (wall mounted)
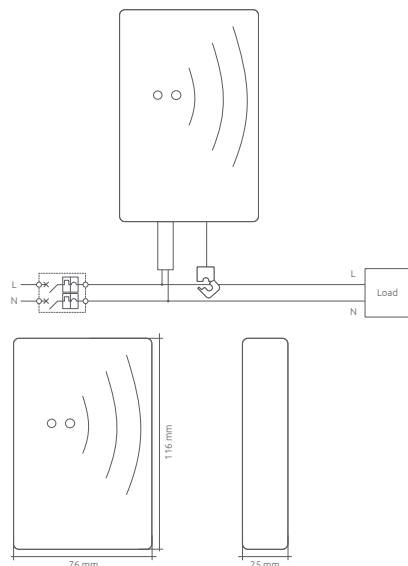
Technical drawings
ZR-HM.D-RI (DIN rail mounted)

Energy Meter 3~

DIN rail mounted
threephase
energy meter

Wireless power and energy meter for three-phase systems/loads, featuring ease of installation thanks to the split core current transformers utilised.

Technical data

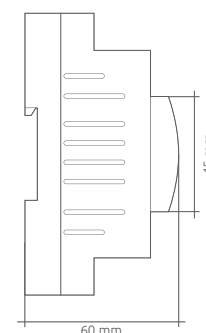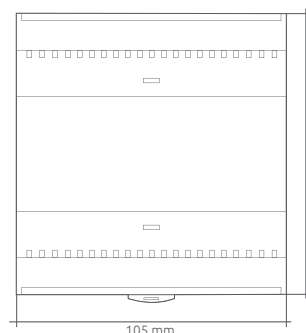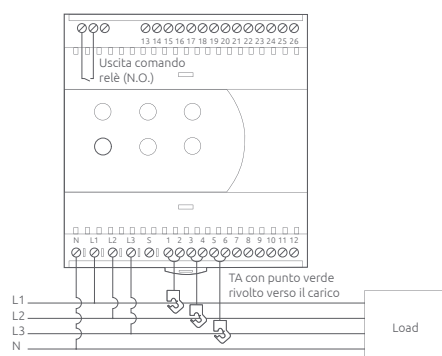| Code	SH02326SM3P
Power supply	230 Vac 1.5 W 50/60 Hz
Antenna	external with SMA-RP connector
Reading mode	3 x split core Current Transformer (CT - included)
Max currend per phase	100 A max
Current transformer (CT)	nternal diameter Ø15 mm
Measurements	Bidirectional active power [W]; Bidirectional energy [Wh]
Radio specifications	2405 MHz ÷ 2480 MHz
Radio range	Fino a 20 m interno
ZigBee profiles	Zigbee HA 1.2
Wireless repeater	Yes
Degree if protection	IP20

Plus points

• wireless monitoring of energy usage by way of App
• simple installation with no disruption of system
• split core current transformer (CT)
• power measurement up to 100A per phase

App-controlled functions

• instantaneous power consumption display
• usage log display
• resettable energy meter providing energy cost estimate expressed in €

Technical drawings

L1
L2
L3
N

Uscita comando relè (N.O.)

N L1 L2 L3 S   1 2 3 4 5 6 7 8 9 10 11 12

TA con punto verde rivolto verso il carico

Load

110 mm

105 mm

45 mm

60 mm

Halo Smart Solar

Photovoltaic
monitoring
and self-consumption

Elios4you and Elios4you Smart
are two monitoring and
selfconsumption devices for
photovoltaic systems connected to
single phase consumers with 12 kW
max grid connection.

Dati tecnici

Code	E4U
General specifications	**Control system for single-phase photovoltaic systems with Wi-Fi connection and App for Android/ iOS**
Power supply	**230 Vac (±10%) 50/60 Hz 2 W**
Current measurement	**With split core CT (internal Ø 15 mm max)**
Power measurement	**Max. 12 kW**
Antenna	**External, SMA RP screw connector (data transmission via Wi-Fi)**
Outputs	**Relay output (max 10 A @ 230 Vac) Control output 0-10 Vdc**
Inputs	**2 x voltage-free alarm contact (NO)**
Memory	**Data log up to two months, in the event of no connection to tablet, with sampling every 15 min**
Status displays	**nr. 8 LED**
Radio specifications	**Wi-Fi 802.11 b/g/n**
Degree of protection	**IP20**

NOTE: Halo Smart Solar is also available in three-phase version for systems up to 100kW.

Plus points
• suitable for all types of inverter
• for single-phase PV systems up to 12kW
• Wi-Fi connection with router
• internal data log memory (2 months)
• compatible with Halo Smart Living system for optimisation of energy usage

App-controlled functions

• display of energy production/usage/ connection to grid
• data log available on cloud portal (optional)

Technical drawings

Notes

Notes
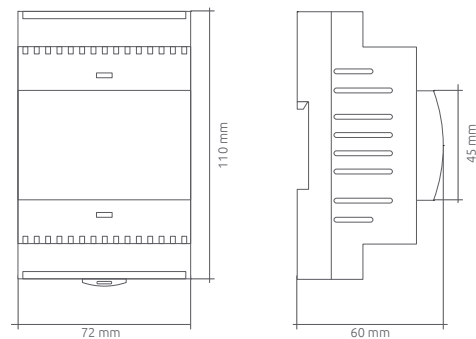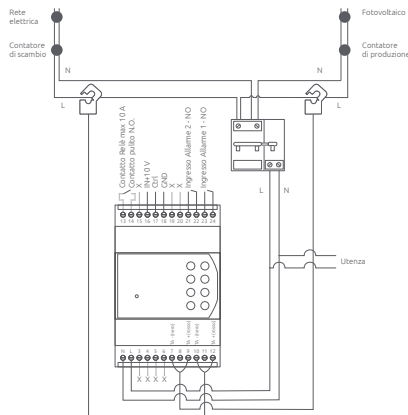
Living the future.

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