

THE HOME OF INNOVATION.

*Eltako*



## ELTAKO PROFESSIONAL SMART HOME – THE INTELLIGENT SYSTEM IN THE BUILDING

  
**enocean**  
THE UNIQUE WIRELESS PROFESSIONAL  
SMART HOME STANDARD

*Eltako*

PROFESSIONAL  
**SMART  
HOME**



## **INTELLIGENT SOLUTIONS FOR YOUR ELECTRICAL INSTALLATION**

Discover the many  
different possibilities

It is not only a vision to establish the ELTAKO Wireless Building as a standard installation in residential buildings in Europe. We have followed this path and will also continue it consistently.

Of course only by working together with you, the electrical installer!

# ELTAKO PROFESSIONAL SMART HOME

## **70 years of experience in smart building systems**

The name of ELTAKO has stood for performance and inventiveness for over 70 years, for a high level of capability and quality in the development and production of innovative products for building installation and control systems.

## **Safe investment**

It seems almost every day a new manufacturer launches a "New Smart Home Solution" on the market. However can they offer the history of long term support to customers like ELTAKO? Can they be assured of quality and service that ELTAKO offers every day? Will the company be here today and gone tomorrow and what about spare parts?

ELTAKO stands for tradition and quality. When you opt for ELTAKO Professional products, you choose a system which is developed from many years of experience and which has a long and growing future.

## **EnOcean wireless standard**

ELTAKO Professional Smart Home is based on the world-wide EnOcean wireless standard. Exclusive EnOcean highlights include wireless pushbuttons and window/door contacts with energy generators.

They have no batteries and are therefore maintenance-free. As a stakeholder of the EnOcean Alliance, we stand for continuous development of the international EnOcean wireless standard.

## **Employees**

Our sales and engineering team is present all over Europe and beyond and will support you to find a solution to your requirements. We can provide site support, assistance via our Hotline or WhatsApp chat. We will be there for you from the design stage through to completion.

## **Development and Quality "Made in Germany"**

ELTAKO is a family-owned company based in Fellbach, a town on the outskirts of Stuttgart, Germany.

Research and development, quality management, customer service, sales management and central administration are located at the company headquarters.

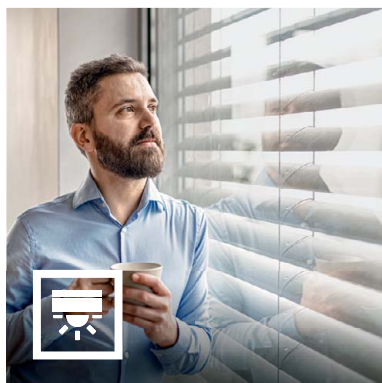
## **5-year warranty**

Since 2019 we have offered warranty period of 5 years from the date of manufacture on all products we supply bearing the ELTAKO label.



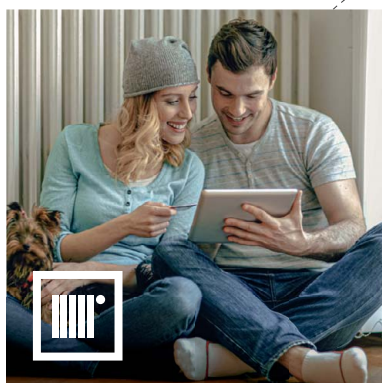
# YOUR ONE-STOP SOURCE OF INNOVATIVE SOLUTIONS.

We offer a wide range of Smart Building and Conventional Building technologies. ELTAKO products are designed for ease of use and backed by our quality guarantee and support. Our Smart Building products are versatile, intelligent and future-ready – delivering greater comfort, convenience, safety, security and energy efficiency. Discover what ELTAKO can do for you and your customers.



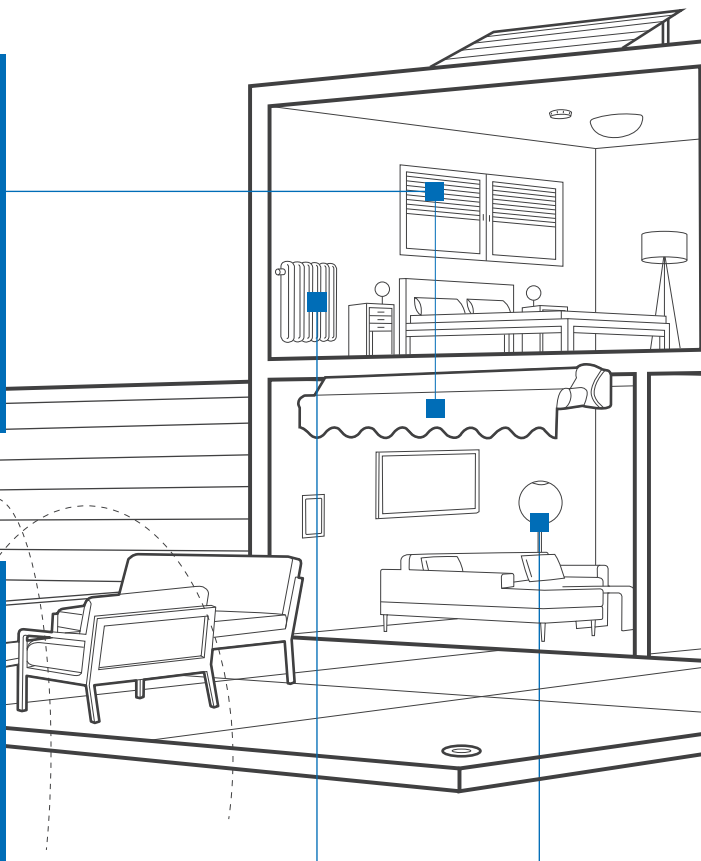
## SHADING

Automatically control roller shutters, blinds and awnings with sensors, and time and central functions. The result is not just targeted temperature and shade, but also lower costs for heating and air-conditioning.



## ROOM CLIMATE

ELTAKO systems enable heating, air conditioning and ventilation to be tailored to each room and need. You can go from a pleasantly cool bedroom, to a preheated bathroom, to a freshly ventilated kitchen. For the perfect start to your day.



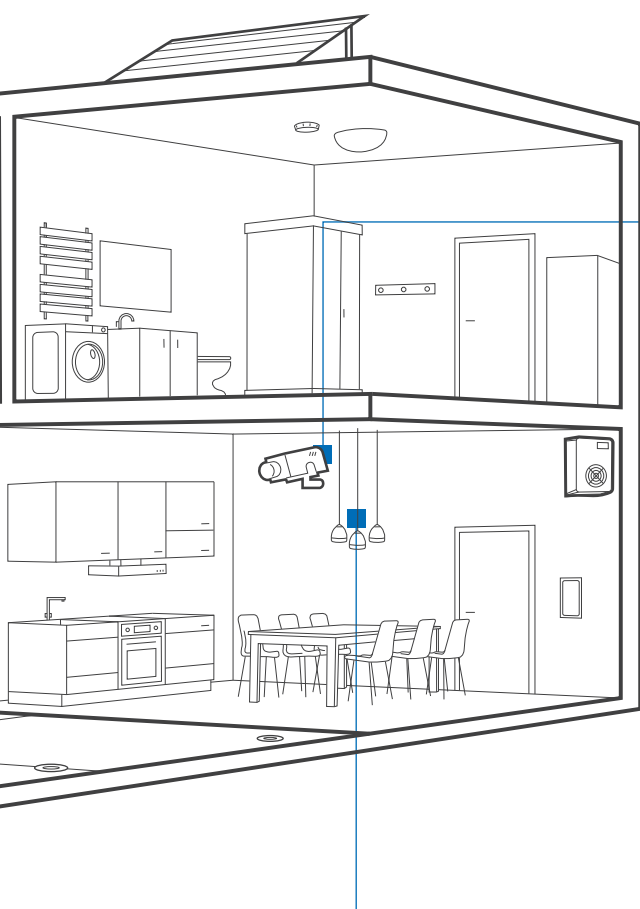
## ENHANCED EFFICIENCY

Energy-efficient temperature control, automatic activation and deactivation of devices, and an energy-saving absence mode ensure a marked reduction in consumption. And smart metering delivers total visibility.



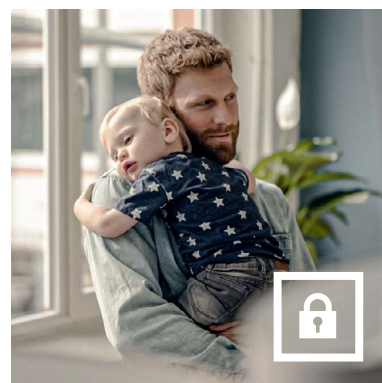
## CONTROL

Anywhere, anytime control of your smart home. Open the blinds via voice activation from the comfort of your couch. Monitor your house via the app while you are on holiday, or turn up the heating when you are leaving work. Our innovative control and visualization capabilities make it possible.



## SAFETY AND SECURITY

Smart is safe and secure. ELTAKO offers a variety of solutions that protect homes, including smoke detectors, camera surveillance systems, motion detectors, window and door monitoring devices and presence simulation.



## LIGHTING

Whatever the mood you want, we provide the light to match. Activate, deactivate or dim interior, exterior or garden lights to produce exactly the effect you want – and to create your own personal feel-good ambience.



## COMFORT AND CONVENIENCE

Relax, and let your home do the hard work. The many central, time and automation functions available from ELTAKO allow entire houses to be configured and controlled in line with personal preferences.

## CENTRALISED

E.G.

**FAM14**

**FSR14-2x**

**FUD14**



## Centralised building installation

In the centralised building installation, actuators are fitted centrally in distributor boxes to control individual functions from there. Jumpers enable communication between the devices and supply the power needed. Wireless pushbuttons and sensors can be fitted wherever they are required, to walls, ceilings, on glass or furniture without having to route additional wiring.

The Wireless Building installation is configured manually or by using the PCT14 software which provides an extensive number of optional settings and is a quick method to teach in devices.

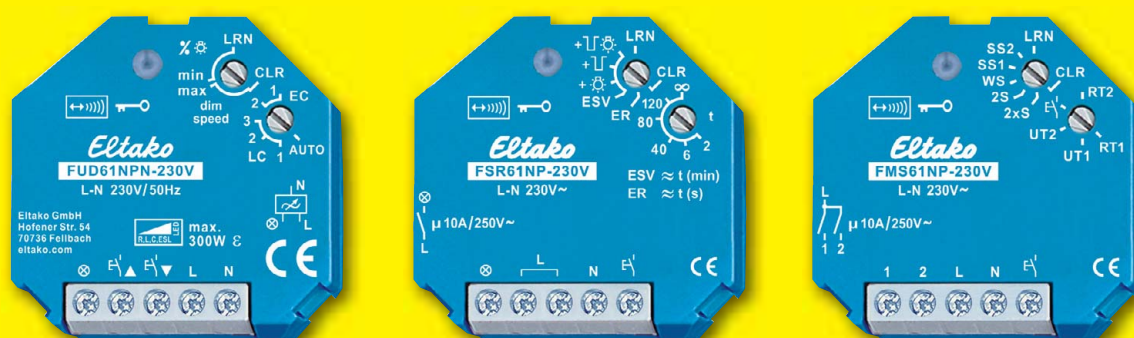
## DECENTRALISED

E.G.

**FUD61NPN-230V**

**FSR61NP-230V**

**FMS61NP-230V**



## Decentralised building installation

In the decentralised building installation, actuators are usually fitted to control individual functions from there. Teach-in is performed manually on each device by means of rotary switches.

Pushbuttons and sensors can be fitted wherever they are required, to walls, ceilings, on glass or furniture.

This is a simple and cost-effective way to implement all Wireless Building applications without the additional need to route wiring and is especially interesting for renovating or refurbishing buildings or to supplement conventional electrical installations.



## "Hands Free" Sensors

With the new, non-contact sensors, we round off our system in the area of contactless switching and offer solutions for a wide variety of purposes.







# Elegant and versatile - iPad Docking Station from ELTAKO.

Made exclusively from high-quality aluminium and glass, this will transform the Apple iPad into a luxurious wall mounted smart control centre.

The Smart Power Management ensures that the iPad is charged and when the battery level reaches 100 % it stops charging automatically. This protects the battery and extends their service life.

- Sliding charging connector
- Intelligent power management
- Lightning or USB-C charging
- Surface mounting for all sizes of iPad.
- Flush fitting for 10.2" and 10.5" models



OnWall-sz



OnWall-al



InWall-10-sz



touchDock-



**RAISE THE LEVEL  
OF YOUR  
HOME COMFORT**

with our smart building  
control system



## Smart control for my home or buildings

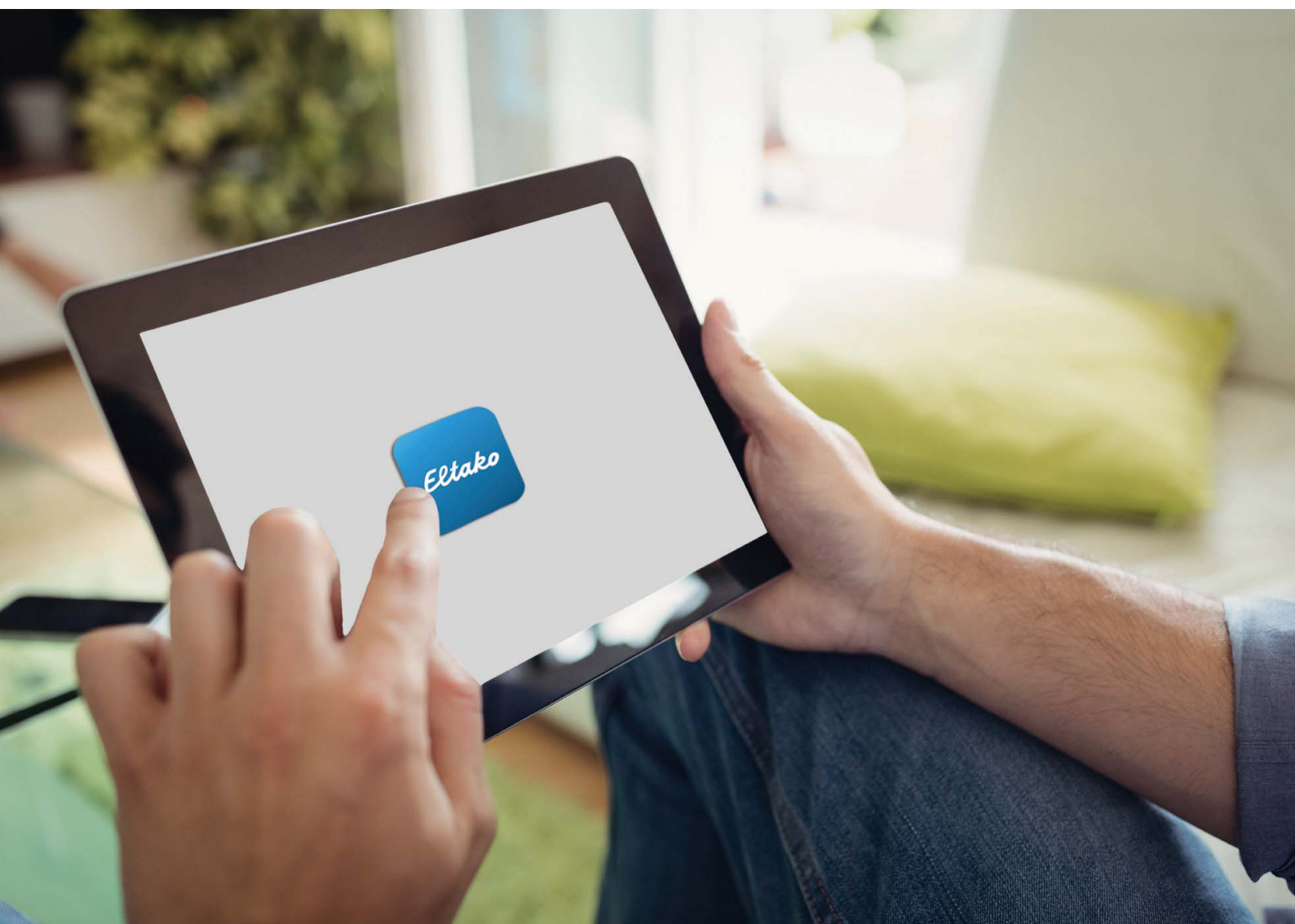
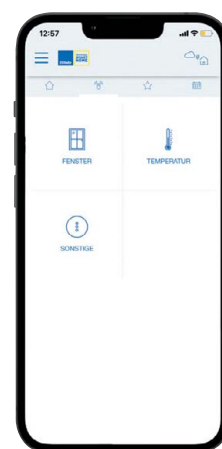
Control, visualise and monitor your home using the convenience of a smartphone or tablet via the Smart Home control units. The Wireless Building app keeps you fully in the picture at all times and it also has all the functions so that you can operate them either inside your home or even from another country while you are on holiday.



MiniSafe 2

# Remote control for my home or buildings

A connection from your mobile terminal is secure through end-to-end encryption. The MiniSafe-2 is a Smart Home controller. It receives EnOcean signals from various ELTAKO wireless sensors and actuators. MiniSafe 2 permits highly encrypted access, both internally and externally, with an APP by smartphone, tablet, or via voice control for an example "Alexa" or "Google Home". MiniSafe 2 can also interface with other open protocols if required.





Press the Central Off pushbutton to switch all the required lighting off when you leave the house.

Other devices like heating can be set to energy save mode. However devices like alarms and the refrigerator/freezer will be unaffected. All this at the touch of a button.



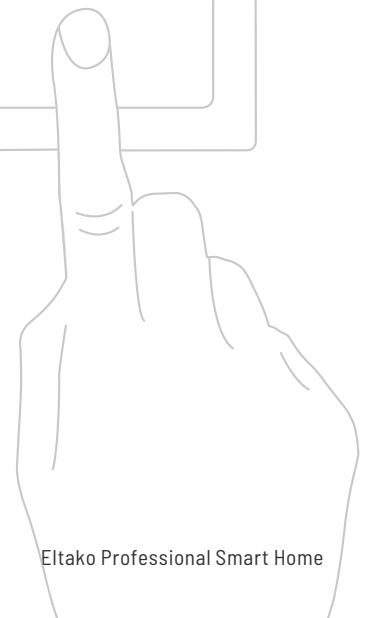
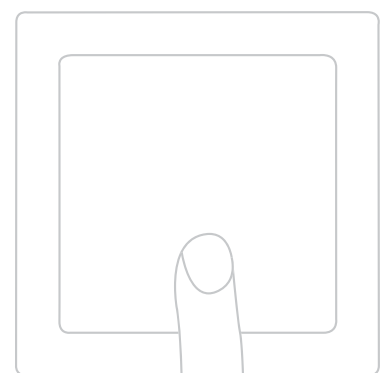
**F2T55E**  
Wireless 4-way pushbutton  
with rocker  
without battery or wire



**F4T55EB**  
Wireless 4-way pushbutton  
with double rocker  
without wire



**F4PT55E**  
Wireless 4-way profile  
pushbutton 55 x 55 mm  
without battery or wire





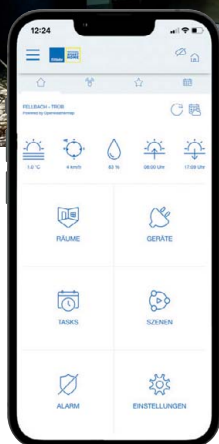


Eltako

## Saving energy all by itself

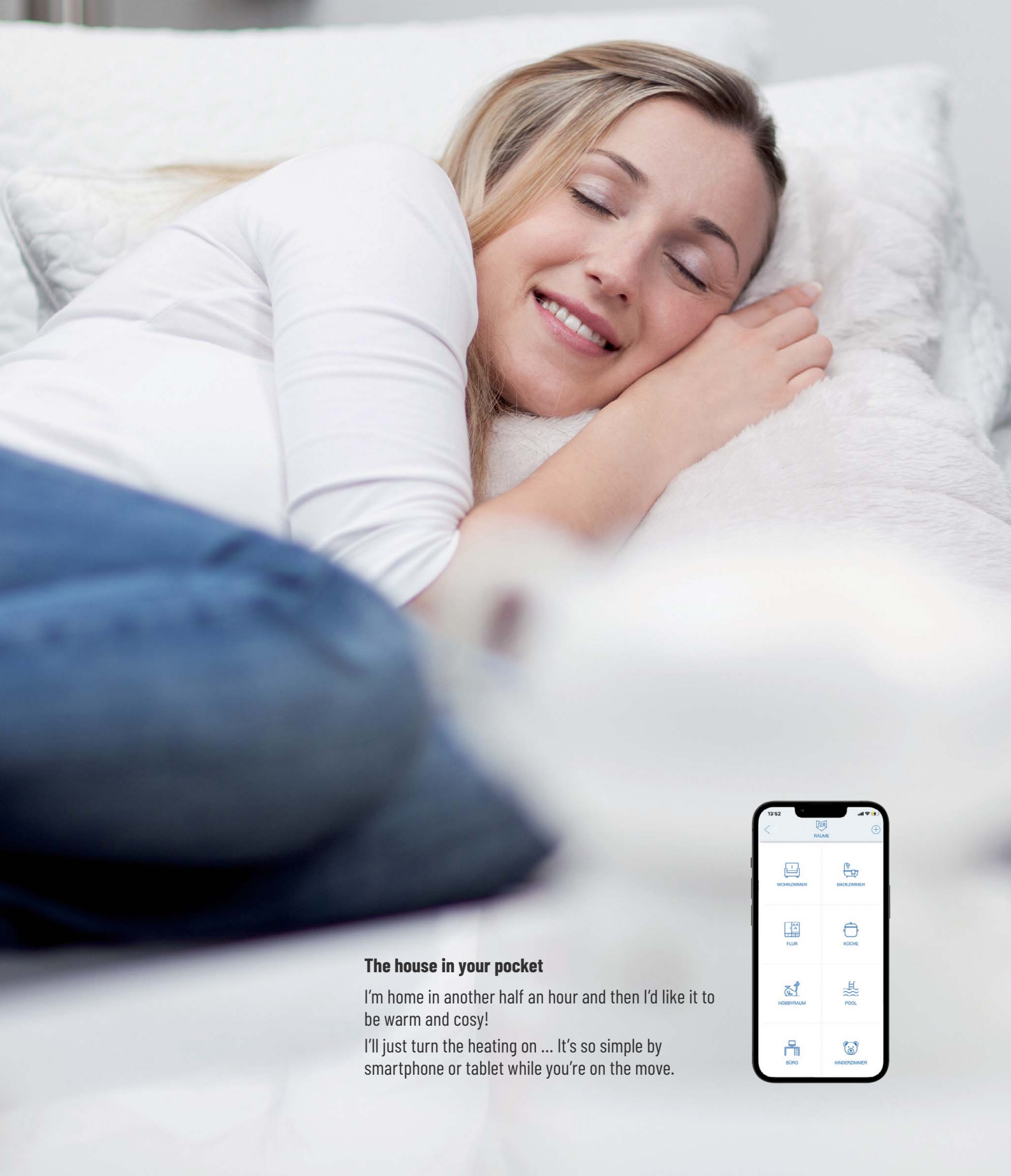
Do you select the functions of your shading system by means of central commands – dependent on time and brightness – or do you prefer to press a pushbutton in the room you're in?

Perfect coordination of smart sensors and easy operation provides you with greater convenience and increased security.



### The house in your pocket

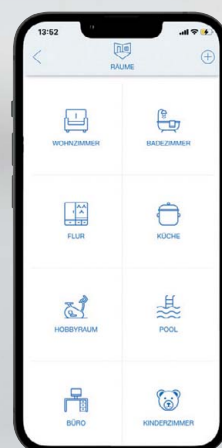
A thunderstorm is approaching – are all the windows shut? Are the blinds and awnings in retracted position? Just let me check again ... It's so simple by smartphone or tablet while you're on the move.



### **The house in your pocket**

I'm home in another half an hour and then I'd like it to be warm and cosy!

I'll just turn the heating on ... It's so simple by smartphone or tablet while you're on the move.



# Just feel at home

The convenient temperature control makes it nice and cosy in every room. Just the way you want it. The right climate whatever the season, whether it's spring, summer, autumn or winter.

Individual room control not only distributes heat optimally, it also helps save energy.

A window contact turns your heating system into an energy saver. As soon as you open the window, the set temperature drops automatically.

Additionally timer functions can be used to adjust temperature settings as required. For example lowering the temperature in the evening when you go to bed or when you go to work.



**FUTH55D/12-24V UC**  
Wireless thermo  
clock/hygrostat



**FTR55ESB**  
Wireless temperature  
controller with hand wheel,  
2 solar cells and battery



**FTR55EHB**  
Wireless temperature  
controller with hand wheel  
and battery



**FLGTF55E-230V**  
Wireless air quality+  
temperature+ humidity  
sensor



**FKS-SV**  
Wireless small actuator  
Smart Valve



**FLT58-am**  
Wireless air quality table  
sensor + temperature  
and humidity



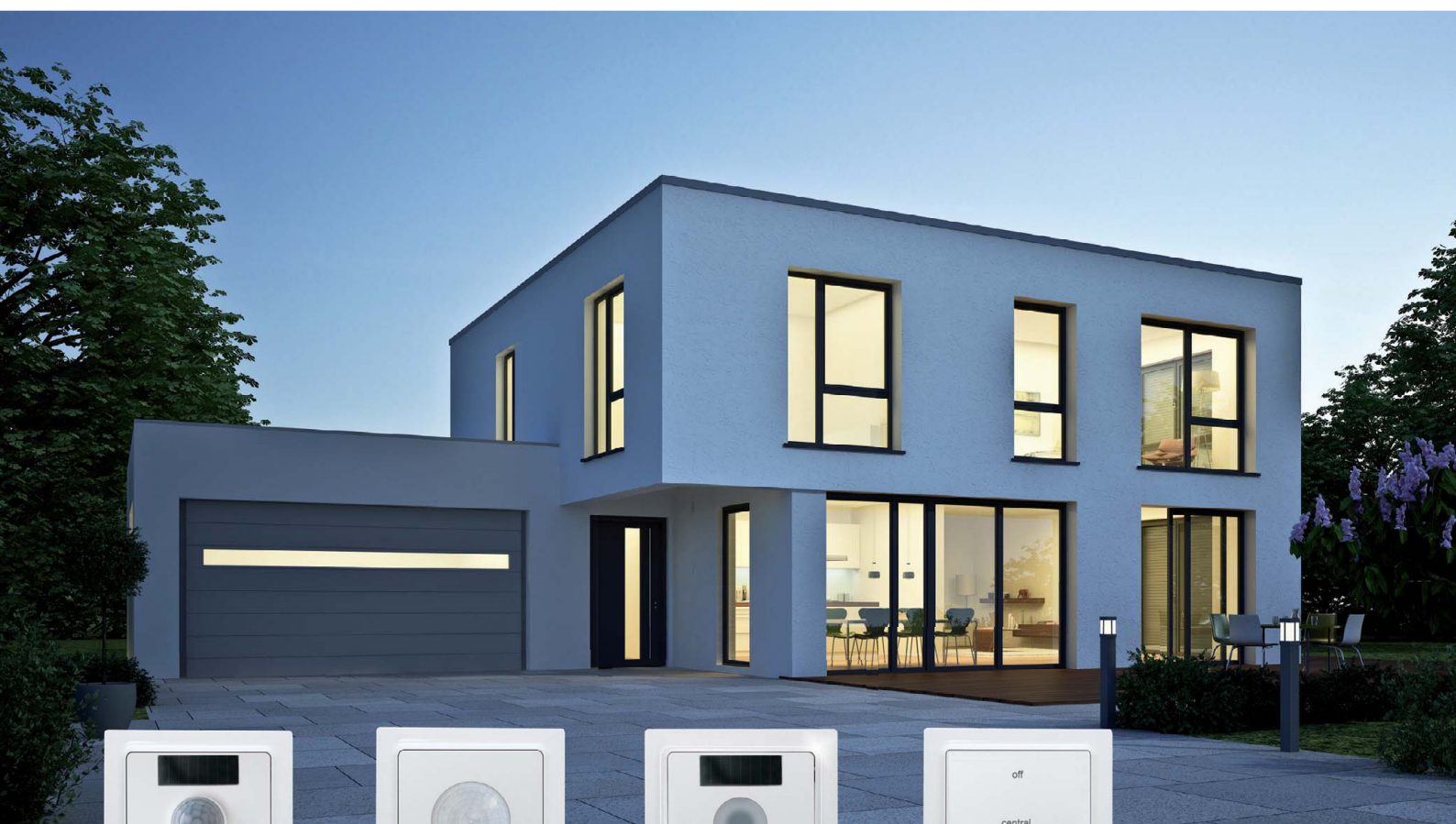


# Welcome Home

You turn into the drive. The motion detectors picks you up and turns the driveway lights on. You press the pushbutton and the garage door opens automatically. The outdoor and garden lights switched on automatically when the sun sets to offer additional security.

The house awakes from day mode when you press a central pushbutton on the front door or you activate it remotely from your smartphone. The systems, which were switched off to save energy when you left the house, are switched back on when you come home.

Are you trying to open the door and turn the lights on with your hands full of heavy shopping bags? No problem! The motion detector simply takes over control and switches the lights on.





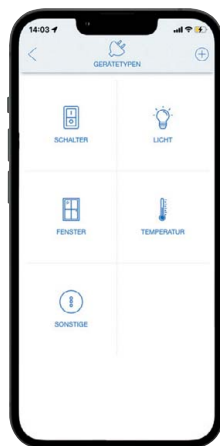


## Enjoy your evenings after work ...

Select the lighting scene that's right for you at the touch of a button. Whether you're enjoying an evening meal, watching TV on the couch or just reading a book.



**FF8-al/anso**  
Wireless remote control





## Getting older also means making things more convenient

Various convenience functions are simply integrated in the existing electrical installation.

Wireless sensors detect motion in the room and switch on the necessary lights automatically.

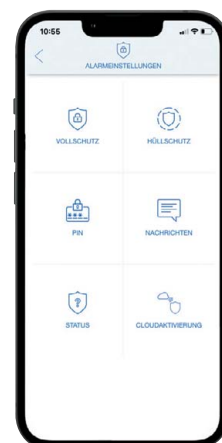
They are genuine energy savers at the same time – when you leave the room, the lights switch off by themselves.

In addition, lighting scenes create the right atmosphere and you can choose one to suit your mood.

### The house in your pocket

When you're out of the house, you can call up the image taken from your surveillance camera, e.g. the camera in the front door intercom.

I'll just take a look ... It's so simple by smartphone or tablet when you're not at home.



# Enjoy your retirement ... while you're on holiday or at home

Timers can make sure your home looks occupied even when you are not there. Time or sensor controlled functions switch lights on and off or move roller shutters up and down.

With remote access its easy to check to see if everything is OK at home and give you peace of mind.







**FMHIW-wg/rot**  
Mini handheld transmitter  
for calling systems

## For those who would benefit from Assisted Living technology.

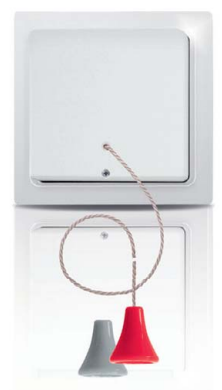
The term Assisted Living means providing a suitable environment for those requiring it with the use of smart technology. ELTAKO's wide range of sensors and actuators will provide assisted living for all those who need it.

For example one solution is that ELTAKO can offer security in a very simple way. Transmitters with no batteries can be mounted anywhere within easy reach. When pressed or pulled, they send a wireless signal which may trigger an LED to indicate a possible emergency call. At the same time, care staff or family members can be notified by text or email.

Lighting control inside and out can be automated, so no one is left in the dark. Heating controls can be set so occupiers are kept warm and comfortable.

Voice control can make life easier for some people activate functions, all this and more can be realised to make a home comfortable and safe for those who need additional help with living.

Assisted living from ELTAKO.



**FZS65**  
Wireless pull switch





# Save energy, reduce costs, preserve the environment

The ELTAKO Wireless Building also offers Smart Metering – genuine energy management that ranges from a cost-effective solution for a flat to a professional solution in large buildings.

Monitoring power consumption is an accepted way to increase awareness of energy consumption and realise which consumers drive up costs at particular times of the day. When counter-measures then cut in automatically, e.g. high consumption appliances are only switched on at off peak times, these realisations and efforts take on an ecological and economically aspect.

Consumption figures are captured by the Building Wireless system and displayed on indicators or by software. A nominated person can actively intervene to control consumption at any time. This shows where power is being wasted so that more effective controls can be introduced and save energy.

Optimising electricity consumption in this way not only makes enormous savings, it also helps preserve the environment at the same time.



**FEA65D**

Wireless energy consumption indicator with display



**WSZ15DE-32A**

Single-phase energy meter, without approval



**WSZ15D-32A**

Single-phase energy meter, MID approval



**DSZ14DRS-3x80A**

RS485 bus three-phase energy meter with MID approval



**WSZ110CEE-16A MID**

Plug-in single phase energy meter



Designing and integrating a smart building with ELTAKO wireless building controls is quite straight forward with the correct planning. ELTAKO wireless products work on the Open Protocol EnOcean Alliance frequency of 868 MHz and there is a huge range of devices available in our range.

Firstly, you need to decide on what functions are required in the property, for example lights to be switched or dimmed. How are the lights to be grouped? Other options as shown in this brochure include heating, will it be radiators or under-floor heating, automated shading, blinds or curtains, AC or MVHR? The next consideration is products, for this you need to decide on a centralised or decentralised approach. The factors, which normally decide this are, is the project a new build or retrofit? With new build the decision is normally a centralised approach using a DIN rail mounted enclosure to house the devices. So, they are centrally located and easy to access. The other option is a decentralised approach where smaller discreet devices are mounted behind the lights or in back boxes, which in existing buildings makes installation easier. This is how ELTAKO gives you more options for your project and makes it as economic as possible. Many devices are completely wire free, like our switches and PIR's. Other devices like our dimming actuators need to be connected to the lighting circuit but are controlled wirelessly. We are happy to help with product selection, so you get the best solution for your project.



### PLANNING THE SYSTEM

The planning of the system requirements is essential, but changes can be incorporated at any time due to the flexible nature of the products.



### MAINTENANCE

Due to the batteryless EnOcean technology the system is very low-maintenance. Substantial costs and maintenance effort can be saved.



### ENCODING

Absolute security and safety – due to the encoded signal transmission of the wireless building.

# Designing an ELTAKO controlled home. We are here to help

Consideration needs to be given to the location of devices because of wireless range, which in open space is around 30 m, but walls and floors may reduce range, again we are happy to advise and offer solutions, like signal boosters or product location.

Commissioning the system is straight forward and requires no special tools. The devices are taught to recognise each other. So, for example a light switch in a room is taught wirelessly to recognise the lights connected to the actuator in that room (switching or dimming) or a thermostat in a room is taught to control the radiator valve actuators in that room. You may have a central off light switch near the main exist so all (or most) the lights in the building are turned off. So, this would be linked to all the lighting actuators, it could also turn the heating down to a lower setting. These are just a couple of examples, ELTAKO offers much more. The whole building can be monitored and controlled from your smart device at home or abroad.

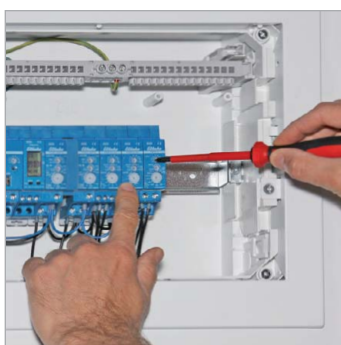
Another great advantage of the ELTAKO wireless control system is the ease of making changes and modifications. You might want to change a light scene or add a new feature like blind actuators. As your circumstance's changes ELTAKO smart controls changes with it. Also, with changes in technology ELTAKO is there always developing new products and software, so your system can always be updated and improved.

The devices only transmit data when required, the frequency output is around 0.01 watt (a smartphone transmits around 0.25 to 1 watt). Your security is paramount, and all signals transmitted are encoded. So you are safe in the knowledge that energy is only being used when it has to be to giving you the safe and comfortable environment you want.



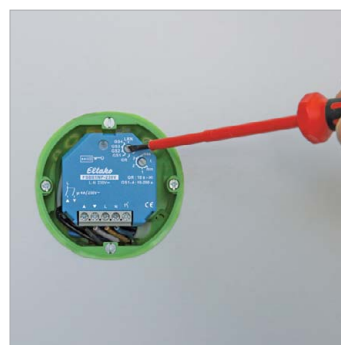
## PRICE AND COSTS

It's amazing but the costs for a wireless installation are comparable with a conventional standard installation - with increased comfort!



## CENTRALISED SYSTEM

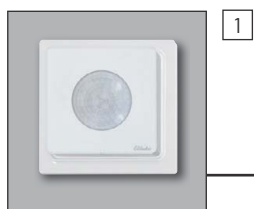
When selecting a centralised approach, devices will be mounted in a suitably sized DIN rail mounting enclosure. The picture shows our Series 14 devices being fitted with especially designed jumpers instead of cross-link wiring which simpler and neater.



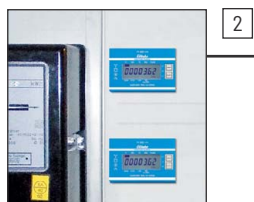
## DECENTRALISED SYSTEM.

Designed mainly for retrofit work in a building these devices will be installed nearer to the devices, for example behind the light fitting in the ceiling and linked with a wireless switch. This is a great option for simple installations for an extension or refurbishment project.





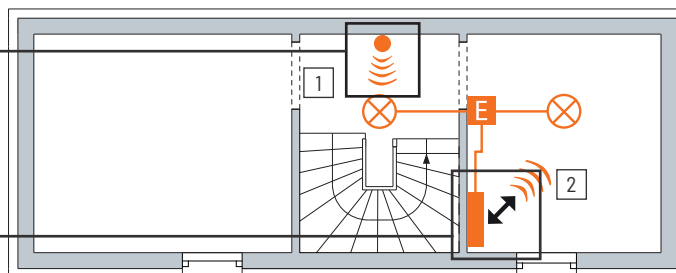
**MOTION DETECTOR**



**FLOOR DISTRIBUTOR  
IN THE BASEMENT  
INCLUDING  
ENERGY METER**

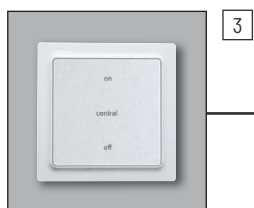
### BASEMENT FLOOR PLAN

basement with a centralised sub-distributor.

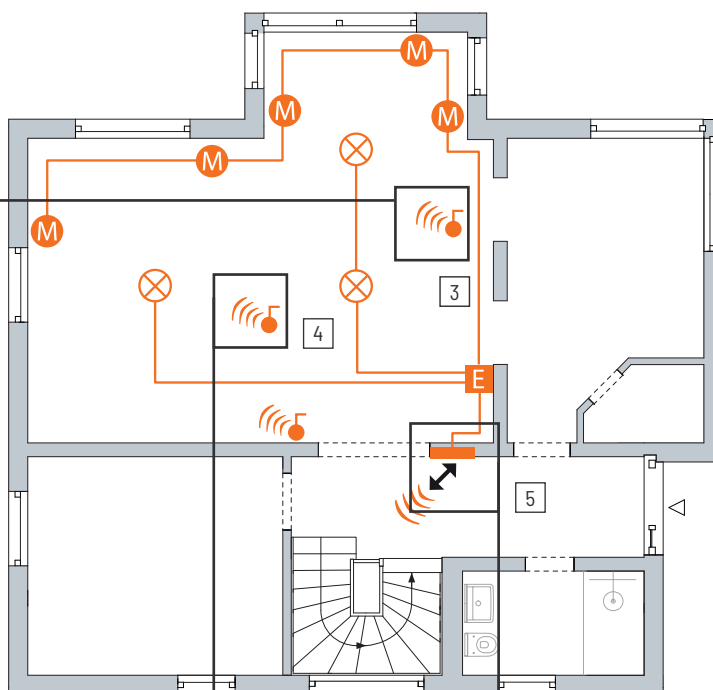


### GROUND FLOOR FLOOR PLAN

ground floor with a centralised sub-distributor.



**WIRELESS  
PUSHBUTTON**



**UNIVERSAL  
REMOTE CONTROL  
+ GFA5**



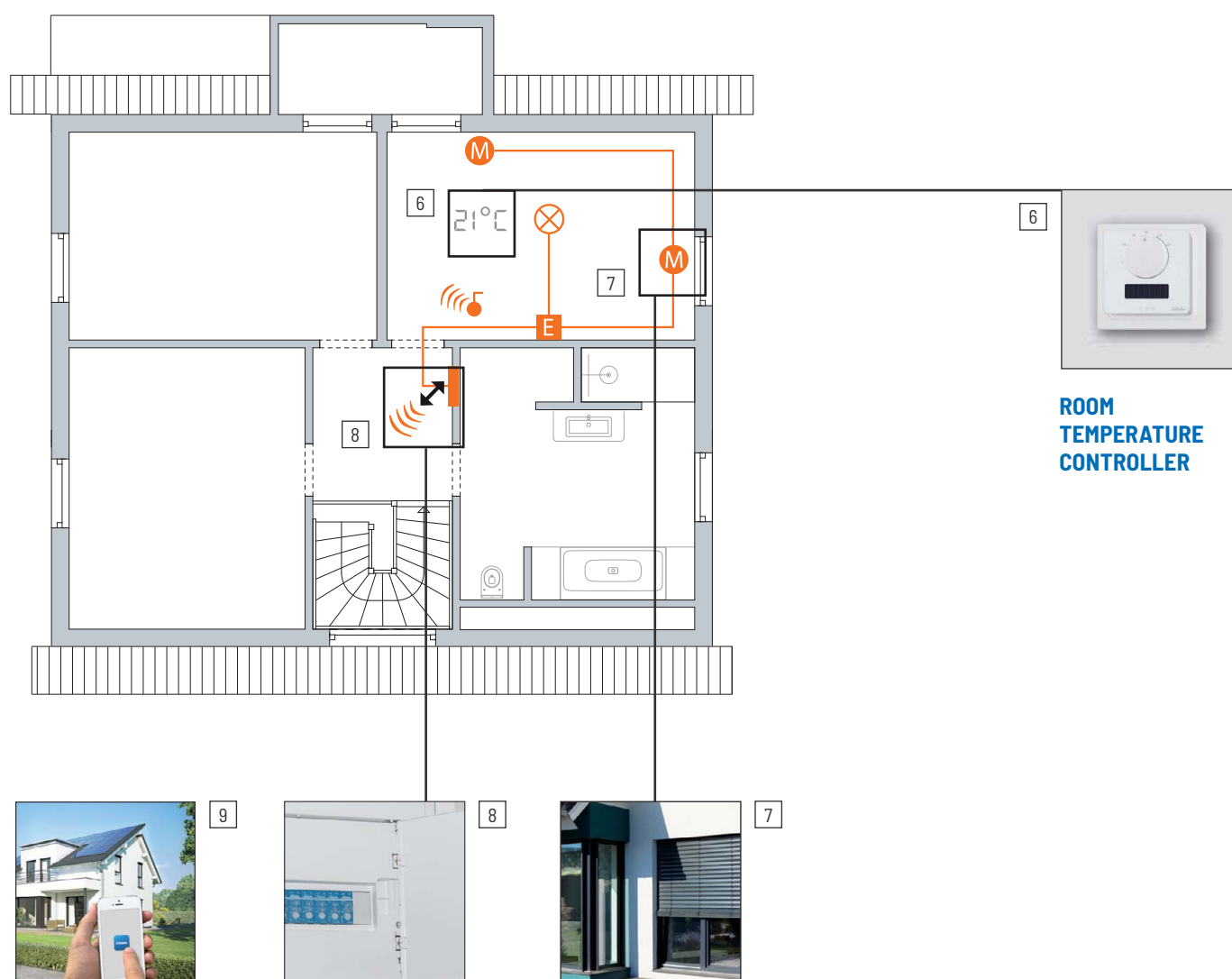
**FLOOR DISTRIBUTOR  
GROUND FLOOR**



# Installation examples

## FIRST FLOOR PLAN

upper floor with centralised sub-distributor.



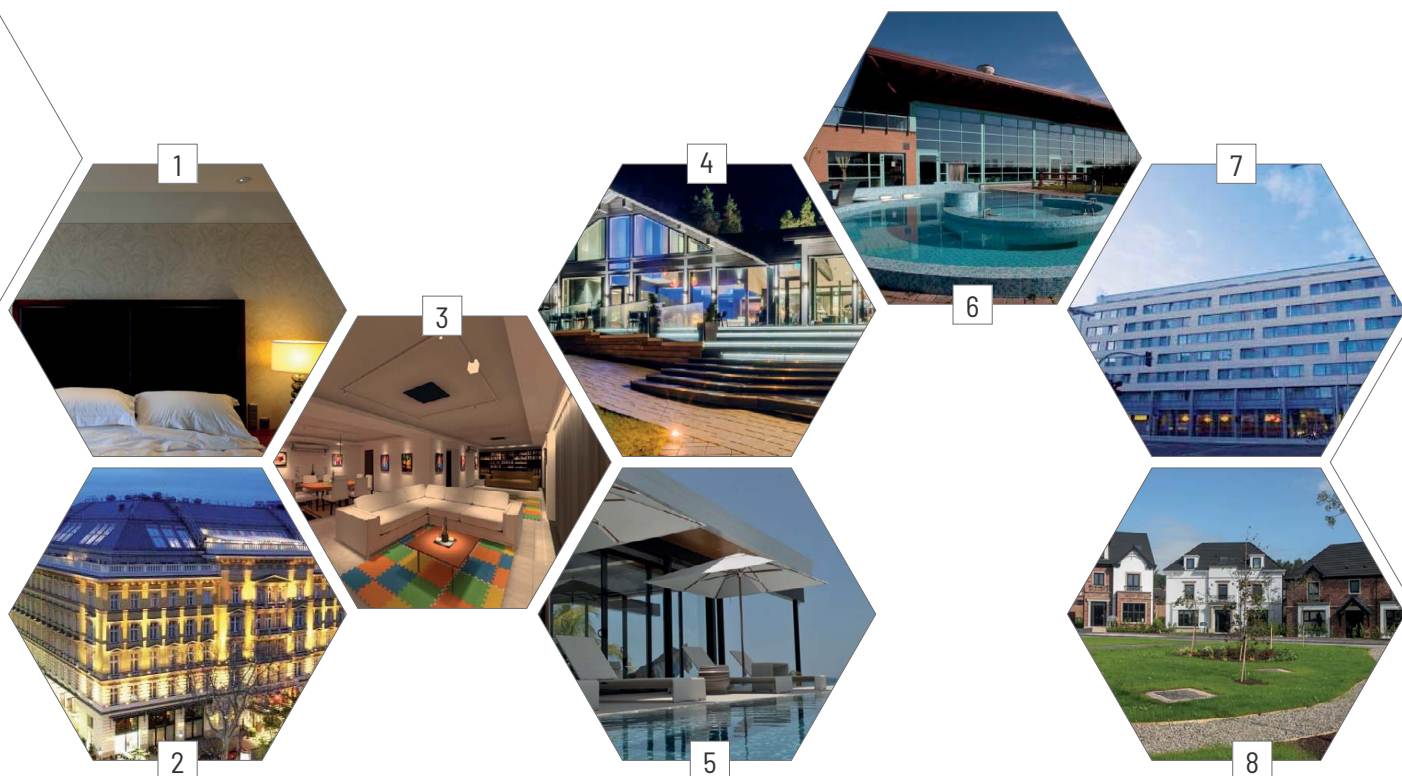
**REMOTE CONTROL  
TO THE BUILDING  
VIA TABLET OR  
SMARTPHONE**

**FLOOR  
DISTRIBUTOR ATTIC**

**ROLLER SHUTTER  
MOTOR**

# ELTAKO Professional Smart Home

## Reference list global



- 1 **SOUTHEAST ASIA - Mandarin Oriental Macau, Macau**
  - One of the most exclusive hotels in Macau. Hotel rooms, suites and hallways.
  - lighting, curtains, time functions
  - 4145 sensors and actuators
- 2 **AUSTRIA - Grand Hotel, Vienna**
  - light control and roller shutters
  - 1215 sensors and actuators
- 3 **SOUTHEAST ASIA - Ronald Tse Residence, Hong Kong**
  - 270 sqm private apartment in the centre of Hong Kong
  - living, lighting
  - 39 sensors and actuators
- 4 **FINNLAND - A new Villa Vellamo <http://www.lehmonkarki.fi/Vääksy>**
  - light control and roller shutters
  - 67 sensors and actuators
- 5 **SOUTHEAST ASIA - Kaliksi Private Island Luxury private resort, Philippines, Palawan**
  - Luxury private resort.
  - lighting, curtains, shading time functions
  - 146 sensors and actuators +GFVS Touch
- 6 **ITALY - SPA ambience, Stezzano**
  - control of water pumps
  - 24 sensors and actuators
- 7 **GERMANY - ABBA Hotel, Berlin**
  - display of occupancy with card reader
  - 267 sensors and actuators
- 8 **UNITED KINGDOM - Castlehill Wood, Belfast**
  - New Housing Estate 37 properties
  - control of lighting
  - 1300 sensors and actuators



**9 NETHERLAND -  
Showroom Van Poppel  
Zevenbergen**

- lighting
- 11 sensors and actuators

**10 GERMANY -  
Innovation centre and  
showroom of Textil  
Maibom, Dingden**

- light control, shading control, including weather stations
- software control
- 50 including Smart Home-Controller GFVS-Touch and weather station

**11 GERMANY -  
DASA exhibition  
'World of Employment'  
Dortmund**

- light control and dimmer switches
- including GFVS 3.0 software
- 70 sensors and actuators + 2 pcs GFVS-Touch

**12 GERMANY -  
Restaurant Freemann  
Düsseldorf-Kalkum**

- light, shading, window control, heating control
- 106 sensors and actuators with GFVS-safe II and weather station

**13 SWITZERLAND -  
Hotel Euler Basel  
Hotel City Inn Basel  
Basel**

- rebuilding of 30 hotel rooms / use of hotel key card switch
- display of occupancy with card reader
- light control of hotel room and bathroom
- switchable socket outlets for standing lamps
- 330 sensors and actuators

**14 SPAIN -  
Finca,  
Muro (Mallorca)**

- light control with wireless pushbuttons
- 132 sensors and actuator

**15 SWEDEN -  
Admiralty Church,  
Karlskrona**

- light control and light scenes
- 18 sensors and actuator

**16 GERMANY -  
Fraunhofer Institute  
Sankt Augustin**

- window monitoring, heating control, daylight-dependent control, energy measuring, controlling via FVS software
- 50 sensors and actuators with FVS-Home software

**DO YOU HAVE ANY QUESTIONS?  
WE HAVE THE ANSWERS FOR YOU.**

