

Smart Home & Building Guide

The most comprehensive system for your smart life!



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INELS[®]

Introducing iNELS

Guide to the world of electrical installations. Become inspired and learn what it is really all about.

Electrical installations are everywhere. They are a part of every building, and every home has at least some modern technology. Anybody can turn the lights on or off or adjust the blinds.

But we wanted to go a step farther. We wanted to create a truly intelligent system. A system that would think for you and save you time, energy and money.

We developed the iNELS - an intelligent wiring and wireless system that can control the whole home, e.g. regulating heat, air-conditioning and recuperation, adjusting roll blinds and shutters, controlling appliances and even the home security system.

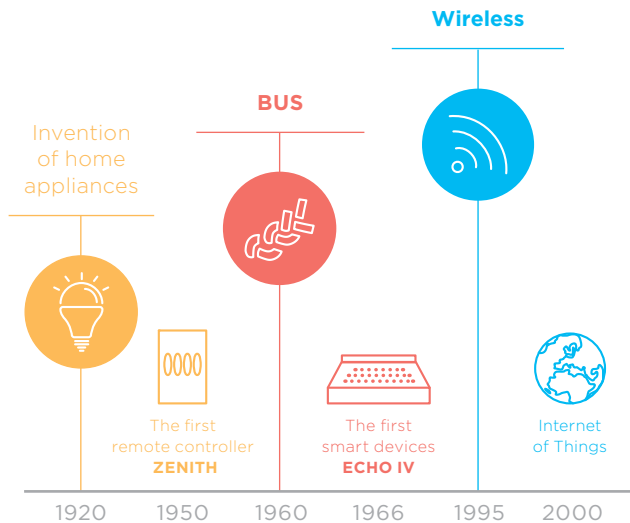
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Why Smart Home?

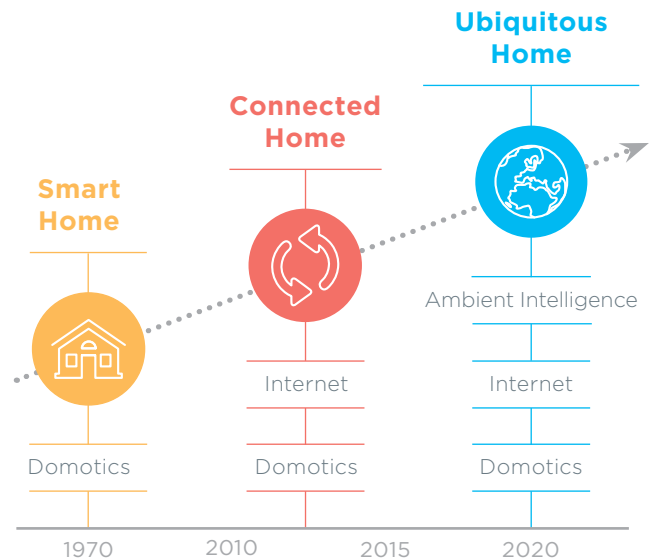
Today, without even realizing it, we are surrounded by an entire series of smart gadgets. From touch phones that we use every day to automobiles, up to home appliances or a modern electrical installation. The smart home therefore does not just function fully automatically, but also economizes, it provides comfort and security and the main thing - it thinks for you!





Internet of things

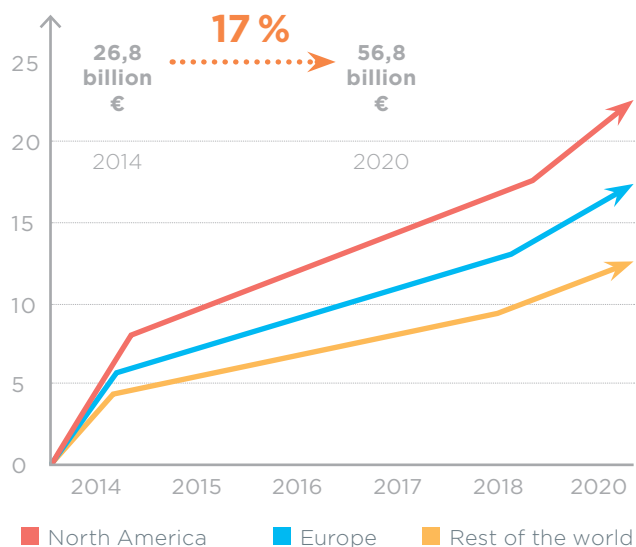
This term includes the concept of connecting appliances, machines, sensors to an existing internet structure. This structure utilizes a specially designed network for small data transfer and low power consumption over long distances. For this concept, we use the Sigfox, LoRa, and NB-IoT networks.

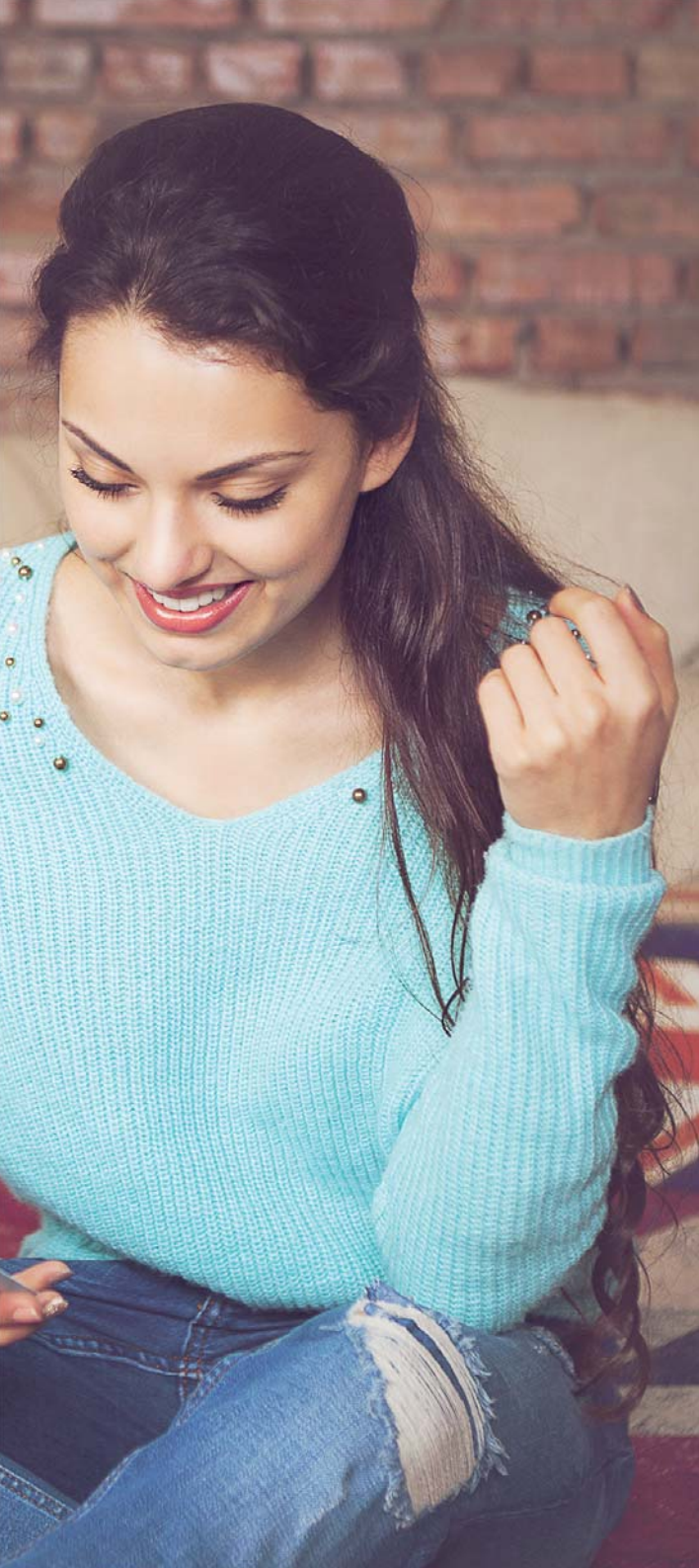


Smart Home users

The Smart Home phenomenon has undergone unseen development just like automobiles, computers, telephones and electronics in general. This appears in materials and technologies that are used to build today's homes. This growth will be even more dynamic as we approach the year 2020.

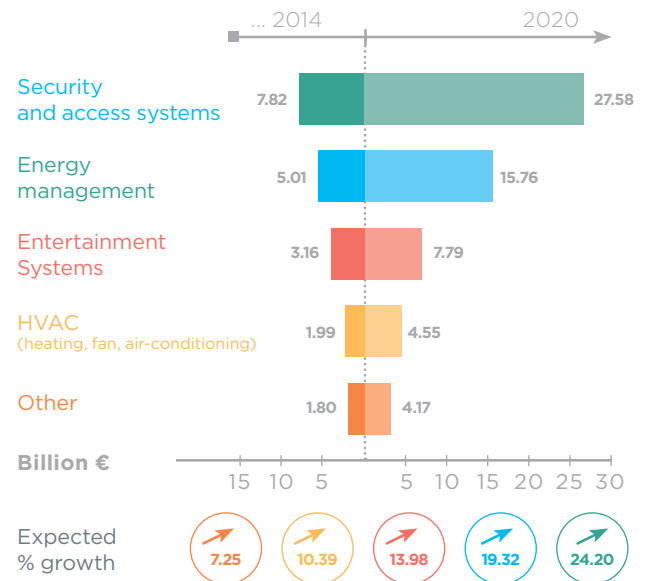
Billion €





Future of the Smart Home

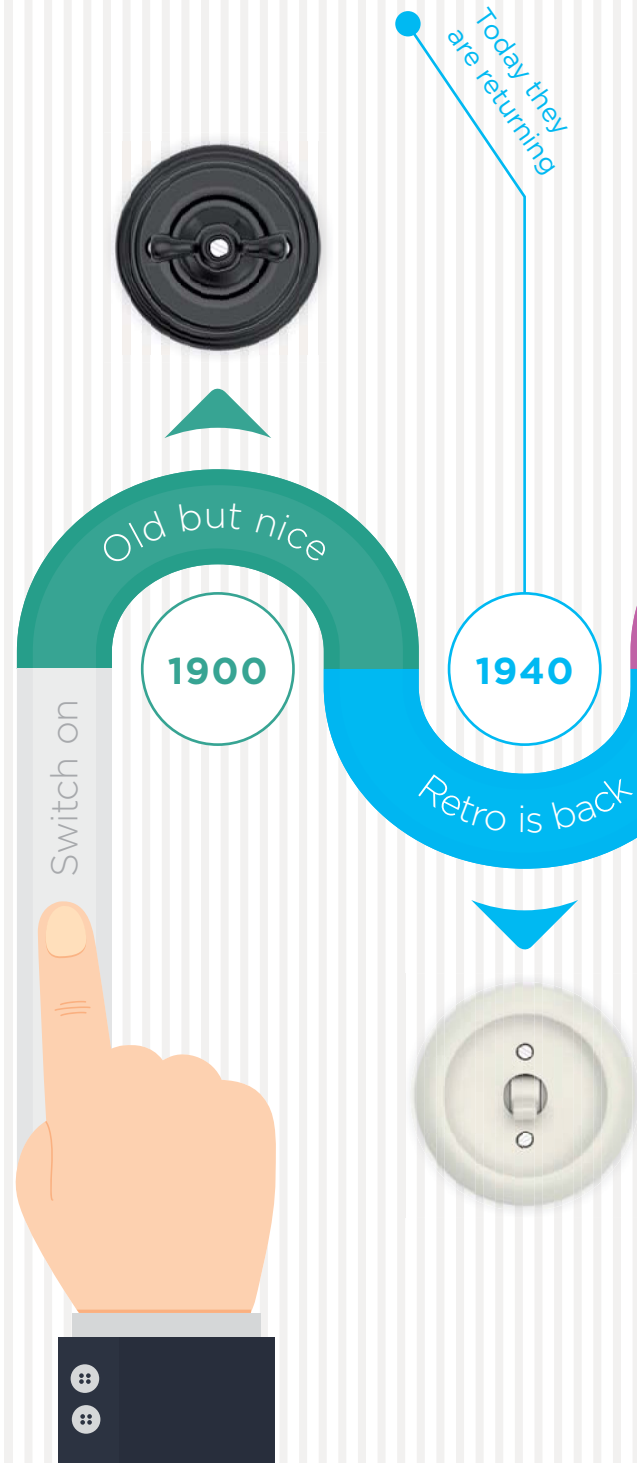
In the spirit of robust development, the ever greater need arises for interconnectivity and the integration of technologies in the home, to enable them to understand and communicate with each other. Today, the smart home is far from being just about controlling lights and heating through your telephone. It is about the connection of all sources so that they ultimately provide the user with the desired comfort and economical return from one's investment.



Evolution of the switching

The switch – as we know it – has not seen many changes since its invention at the end of the 19th century. We still use it in its many forms today. Its size has remained practically the same, but in the Smart Home, power contacts have been replaced with buttons with low upstroke and safe voltage. Contacts and pressing have been replaced by a capacitive pad or touch display.

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This is horror...

Touching is here!

Well done!

1970

2000

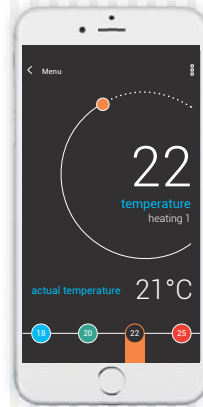
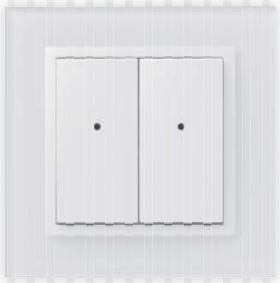
2012

2016

Luxury design

Anytime, anywhere

Period of totalitarianism

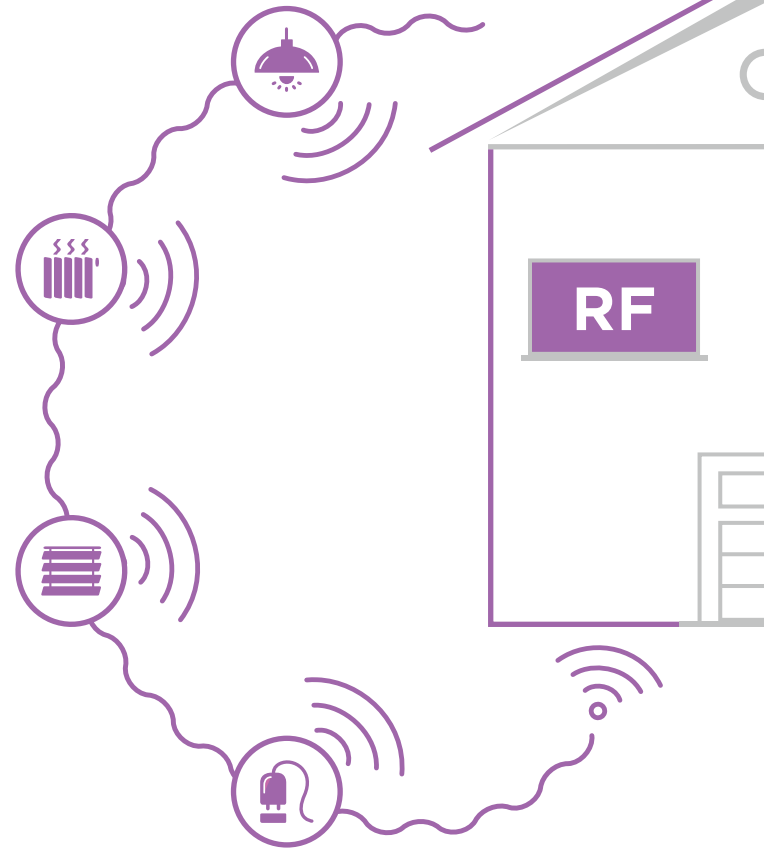


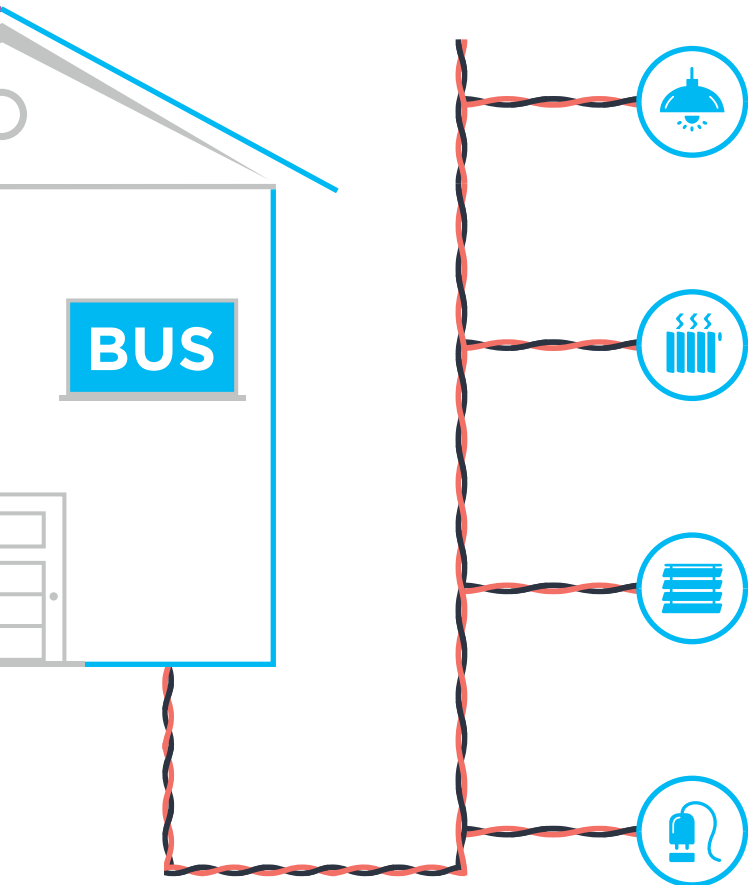
Frames from natural materials

No more pressing...

Wireless solutions

The wireless electrical installation iNELS RF is mainly appropriate for existing apartments and houses. The switching and dimming elements are placed directly into the socket, lamp or into the appliance. For controlling, you can select from a wide assortment of controllers, from pocket key alarms, to button switches in modern designs. All the way to control from a smart phone application for comfortable control - whether you are at home or away. The wireless iNELS includes functions dimming lights, timing for shutters and blinds and heat regulation.





BUS (wire) solutions

The iNELS BUS version on the contrary is designed for new constructions of larger homes and villas to large commercial centers. The basis of this smart electrical installation is the communications data cable, i.e. bus, connecting all sensors, controllers and performance units in the house, which is terminated in the central unit in the switchboard. The advantage of the BUS version is not only in the amount of functions that it brings, but also the option of integrating third-party devices: video cameras, kitchen appliances, solar systems, photo voltaic systems, energy management and much more.



Comparison of systems

The table below shows the individual functions that can be controlled within the wireless or BUS iNELS electrical installation. The main difference is the scope, where in the case of the BUS solution, it is practically unlimited, whereas for the wireless solution, the scope is given by the range of radio waves.



Wireless



BUS (wire)

	Wireless	BUS (wire)
Heating	●	●
Roll shutters, blinds	●	●
Dimming the lighting	●	●
Switching appliances	●	●
Measuring energy	●	●
Detectors	●	●
Video cameras	●	●
Video door-phone	●	●
Alarm	●	●
HVAC	●	●
Kitchen appliances	●	●
Weather station	●	●
LARA Radio/Intercom	●	●
Access system	●	●
GRMS	●	●
iNELS touch panel	●	●





Heating



Roll shutters, blinds



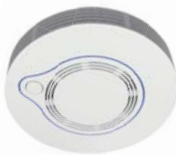
Dimming the lighting



Switching appliances



Measuring energy



Detectors



Video cameras



Video door-phone



Alarm



HVAC



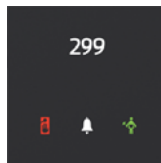
Kitchen appliances



Weather station



LARA Radio/Intercom



Access system



GRMS - Guest room management system



iTP - iNELS touch panel

What can I control?

In addition to basic functions, the system can be set up with even the most advanced functions. iNELS can manoeuvre blind slats according to the position of the sun, or an SMS message can be sent to change the status. Each sensor and request can be recorded into the system along with the appropriate action.



Heating

It is possible to set the temperature in each room using a single button or application.



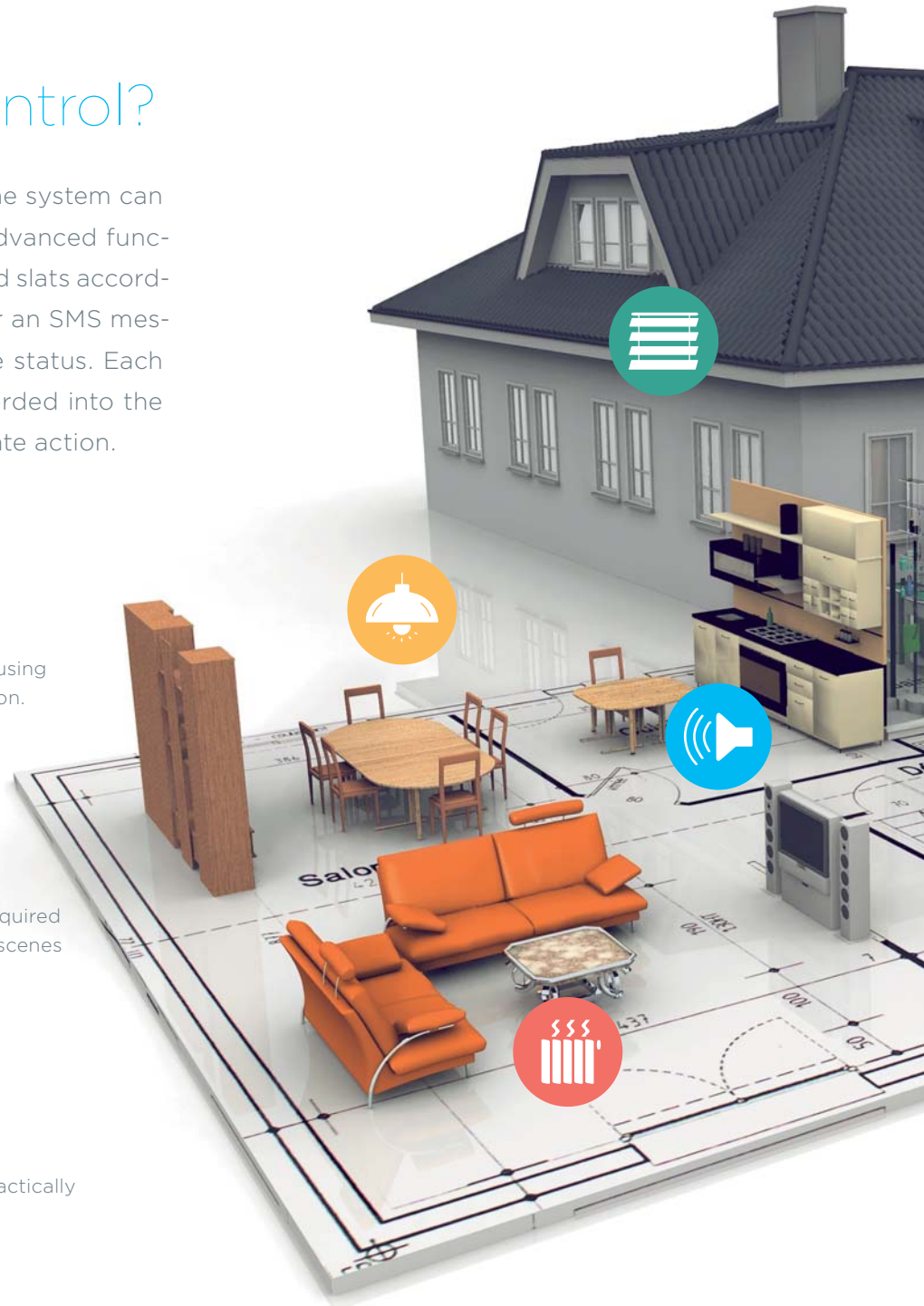
Lighting

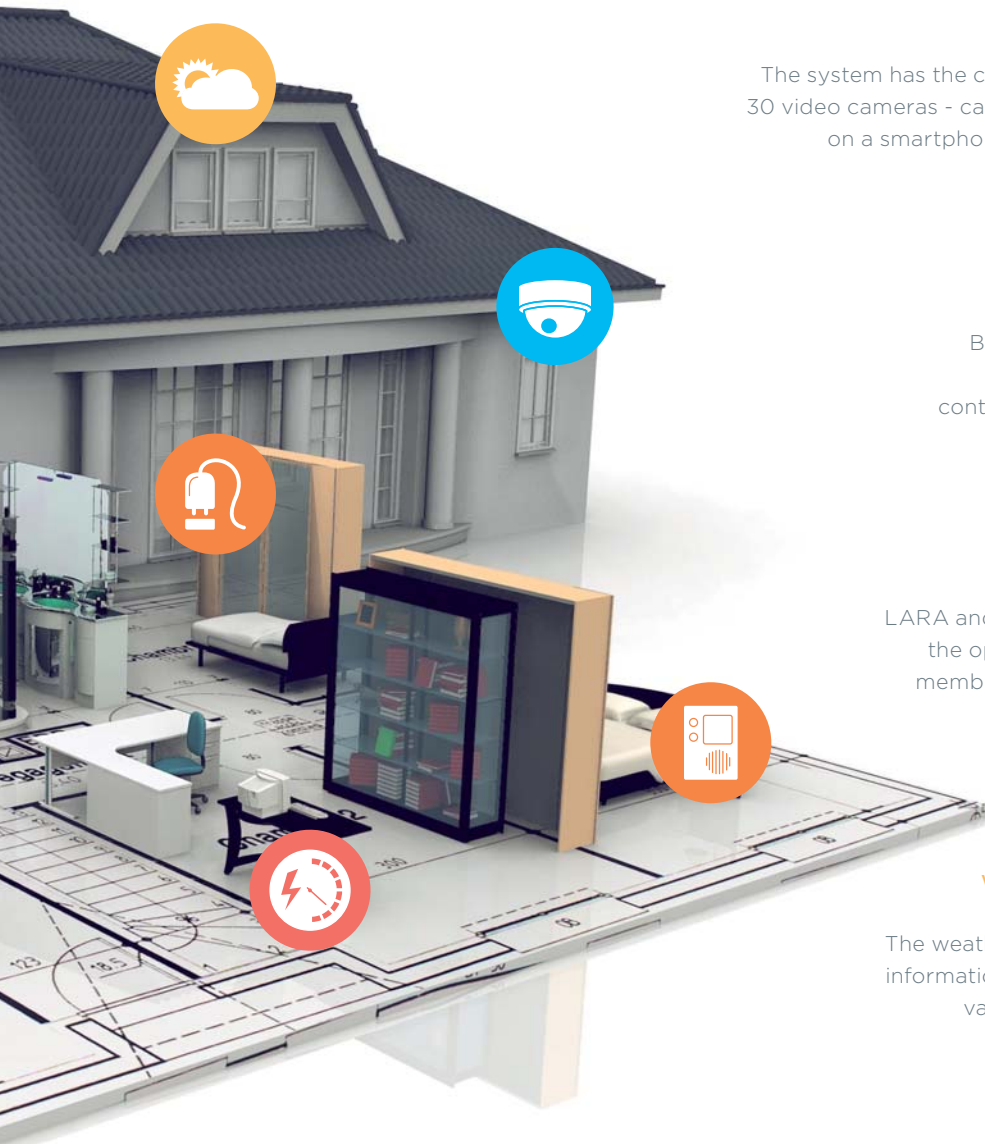
Not only dimming to the required level, but also setting light scenes for every occasion.



Switching

You can switch on or off practically any electric appliance that is connected to the socket.





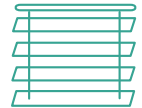
Video camera

The system has the capacity for connecting up to 30 video cameras - can be watched in applications on a smartphone or tablet, and even on TV.



Blinds, Shutters

Blinds, gates and awnings can be controlled by any system controller, including applications.



Intercom

LARA and the iNELS application offer the option of communicating with members of the family in individual rooms of the home.



Weather station

The weather station not only provides information, but also allows measured values to be used for control of functions in the home.



Multimedia

From one place of house it is enabled to share a music over the whole house.



Energy management

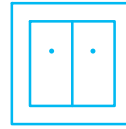
iNELS allows you to measure consumption of electricity, water and gas. Consumption is shown as time units or directly in terms of money.



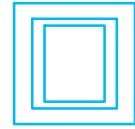
How can I control iNELS?

It does not matter what you control but what you control it with. You can control units and appliances in many ways and even combine them.

For those more conservative, buttons take the form of switches as you have always been used to. Those often moving around the home and garden will appreciate having the keychain in their pocket. The touch unit is designed for those who always want to have all buttons in one place - on a 3.5" framed display. For some, a smart phone is an interesting accessory, but for many it is the only controller that does not need to be purchased because they already have one!



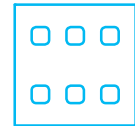
4th button switch



Touch unit



Keychain



Glass switch



Smartphone app



iTP - iNELS Touch panel

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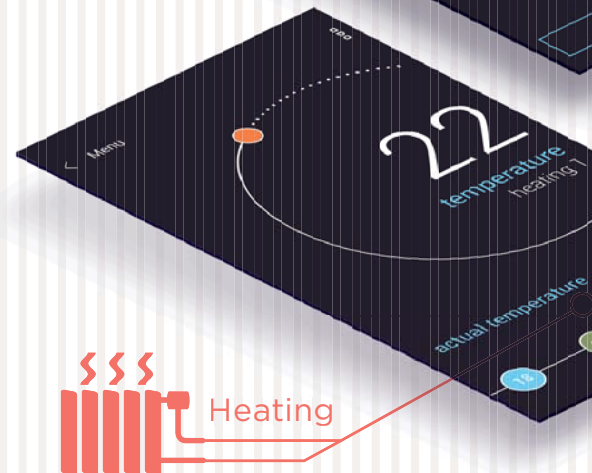
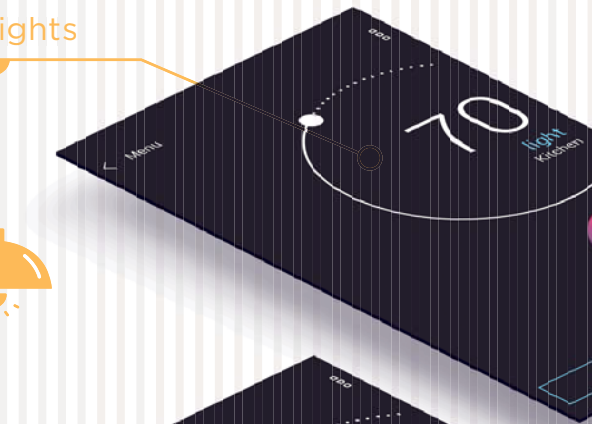
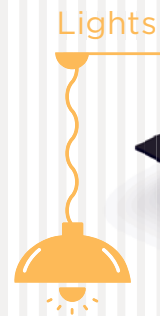
iNELS Home Control

The iNELS intelligent electrical installation system controls everything from heating regulation and air-conditioning, lighting, blinds and other appliances to securing your home and protecting your property. With iNELS, you always keep an eye on your home. Anytime, wherever... All technologies are controlled directly from this application, whether you are connected in a home network Wi-Fi or you are using mobile data while on the go.

Available on:



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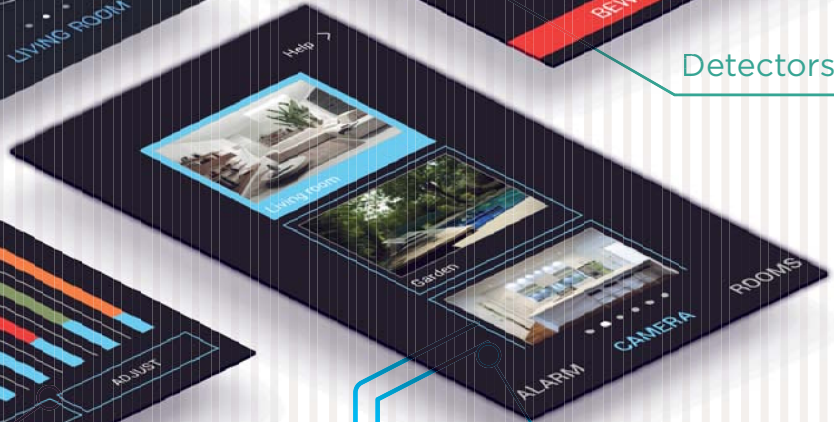




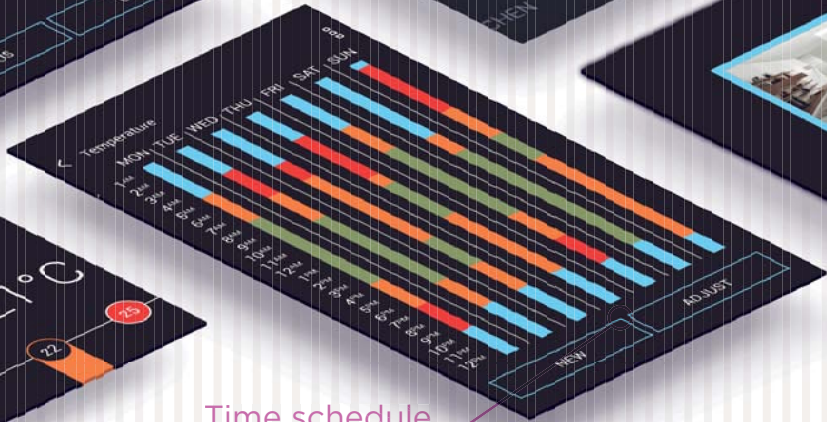
Video door-phone



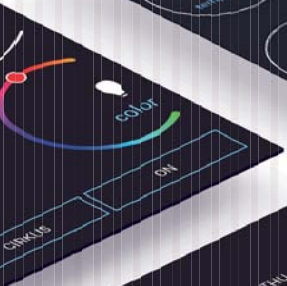
Detectors



Video cameras



Time schedule



LARA... Mediaplayer in the switch

Can you imagine that in just a switch, radio and MP3s can play, or that through this switch, you can talk to your roommates or a visitor at the door?

Yes, it is possible. We were able to incorporate all these functions into a single device the size of a switch. Along with speakers in the same design, you thus gain high-speed, quality sound in the bathroom or kitchen, or perhaps the hallway or children's rooms.

LARA Configurator

Configure your LARA comfortably on the Web configurator. In the configurator, you can select from countless options of connection, size and design.

lara.inels.com



RADIO

Internet radio stations in the best quality.



MUSIC

Listen to your favorite songs from shared storage or a smartphone.



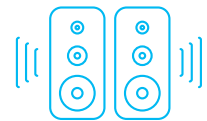
VIDEO DOOR-PHONE

In combination with the door communicator, you will see or hear what or who is standing outside your door.



INTERCOM

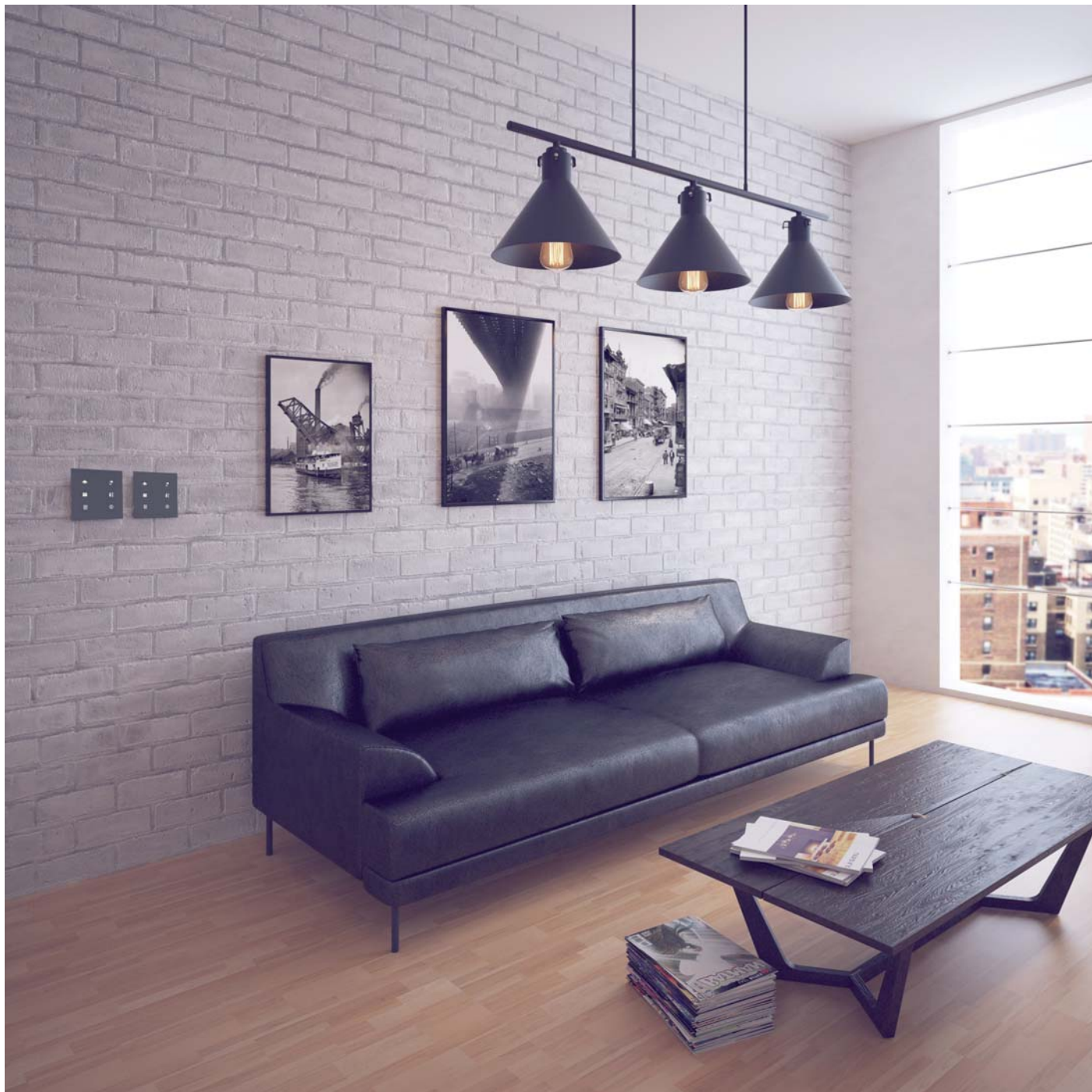
Communicate throughout the home with all your family members.



AUDIO ZONE

Music player within the system iNELS Multimedia.





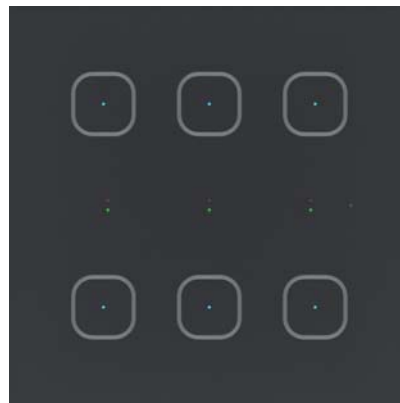
Exclusive glass switch

Wall-mounted glass controllers with touch control of the GSB series are a design element in the iNELS unit with elegant and pleasant control. The touch switches are produced from special tempered glass in black or white, and as opposed to classic switches, they offer savings of space. They are supplied in three variants having four, six or eight buttons. The GSB can also be used not only to switch on the light but also to dim it, or control shading or light scenes.

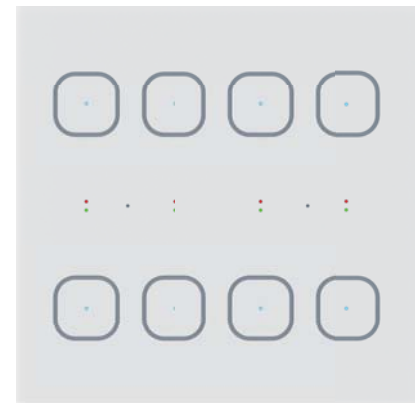
The controller loaded with functions has a light intensity sensor available for controlling lighting in the room or a blue button backlight, appropriate also for orientation lighting, and a heat sensor for heating regulation. A button press can be signaled by vibration, audio tone, and an appliance status signal is also integrated into controllers using red or green LED diodes.



4 buttons



6 buttons

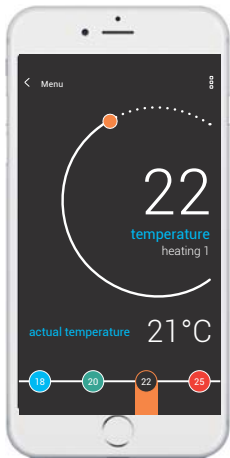


8 buttons

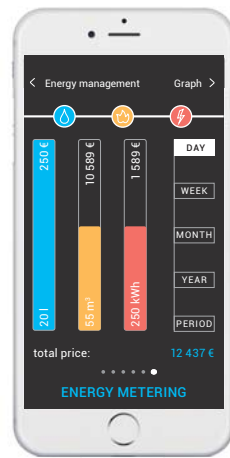
APARTMENT

Wireless installation in an existing apartment

Owners of existing apartments and houses in which electrical installations already exist need not worry. We have prepared for them an iNELS wireless version - RF Control. As the name implies, it functions wirelessly, so there is no need to install or rearrange cabling. There is truly little in the way of structural modifications, only depending on the original electrical installation.



Temperature control



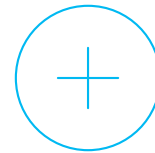
Energy management



No demolition



Flexibility



Expandable



Wall-mounted controllers

The high versatility of wireless switches in both classic design and in natural materials such as wood, glass, metal or stone.



Control touch unit

Wireless touch unit RF Touch is a central unit to control heating, switch home appliances and devices, dim lighting, control shutters.



Keychain

The wireless key alarm enables control of appliances, barriers and gates. It can control up to four independent devices and switch scenes.



iNELS Home Control - Apps

Via the application iHC, you can control lighting, blinds, heating, and video cameras but also run the TV, play music, control air-conditioning, etc.

VILLA

When technologies understood each other!

For larger houses and villas, we recommend the iNELS BUS system. The advantage is not only in the amount of functions that the bus brings, but also the option of integrating third-party devices: video cameras, kitchen appliances, devices for heating, air-conditioning, heat pumps, solar systems, photo voltaic systems, energy management and much more.



iTP - iNELS Touch panel



Remote monitoring



Savings



Security



Glass wall controller

Wall-mounted glass controllers with touch control made from specially tempered glass in white or smoke variant enhance the overall impression of the interior.



Control unit

It is equipped with three screens for controlling temperature, for selecting the color of the RGB light source, and for controlling up to twelve devices or scenes.



Lara Intercom

Up to 64 units of LARA Intercom can be connected. Newly integrated function of the video door-telephone bringing image and sound by means of the IP intercom.



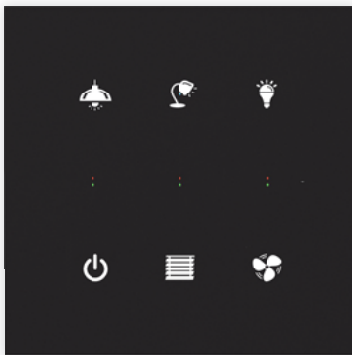
iTP - iNELS Touch panel

Versatile touch control panel is usable for full household control, compatible with wireless and Bus wiring.

GRMS

First controller that guests can understand well!

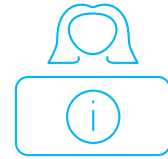
iNELS in the form of GRMS (Guest Room Management System) enables not only control of lighting, air-conditioning or room access, but also control of music or television. All of this occurs from the central touch panel in designs of clear plastic, the natural materials wood, metal, stone or luxurious glass touch panels. A standard service we offer customers is customization - a description of symbols applied by laser onto plastic or glass controllers based on specification.



Combined controller



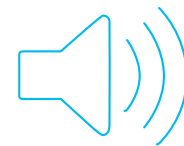
Multifunctional touch panel



Do Not Disturb



Energy saver
(Master Off)



Multimedia



Entrance (door) panel

Features a Mifare reader, Deesfire cards, a ringer button and status "Do not disturb/Make Up Room". The integrated relay enables opening of the door.



Combined controller

Luxurious glass switch with 4, 6 or 8 capacity buttons located in a horizontal or vertical position. Feedback sound and vibration response to touch.



Multifunctional touch panel

Enables control of lights, HVAC, blinds, Master Off and multimedia within the framework of the system Multimedia. It comes equipped with a 3.5" TFT display.



LARA, Radio and Music player

LARA lets you play streaming Internet radio and music from your central storage. You can control it from the front panel, the multifunction panel or a smartphone.

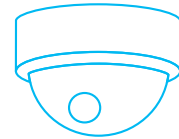
HOTEL RETROFIT

How to simply offer customers much greater comfort

iNELS in the form of HRESK (wireless hotel room solution) is designed for existing hotels where the wiring is already installed. With wireless communication with devices (sensors and actuators), you can upgrade your electrical systems to the next level in a short period of time and without unnecessary refurbishment.



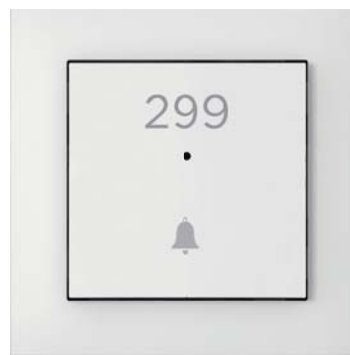
Comfort



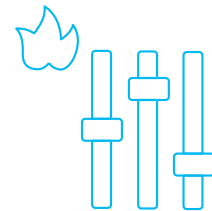
Monitoring



Thermoregulator



Door bell



Regulation



Smart card holder

Elegant glass touch control buttons with colour coded buttons and symbols that can be freely customised according to customer requirements. Controllers are available in black and white.



Door bell

The narrow base and battery power supply enables the location of the doorbell to wherever it is needed. The frame portfolio offers various designs in natural materials such as wood, glass, metal or stone.



Motion detector

The motion detector in combination with the main switch unit, among other things includes automatic light control. Its battery powered which allows you to place it anywhere.



Thermoregulator

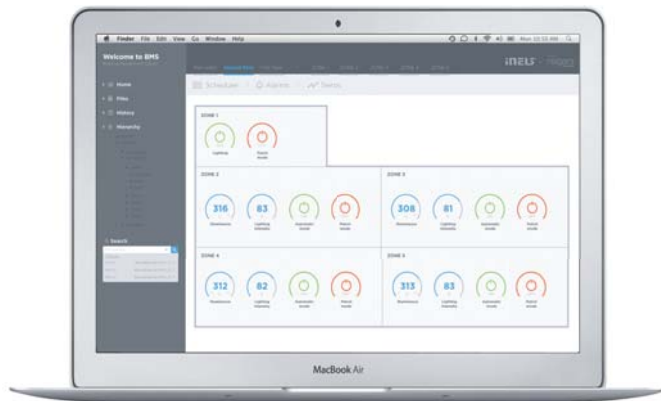
It is designed for central control of heating and cooling and operates in three gears. Manufactured in varied colour design, the LOGUS90 perfectly fits into each hotel room.

COMMERCIAL

Efficient use of technologies and energy

iNELS finds more and more applications in the wide sphere of commercial buildings – stores, offices, restaurants, hospitals and also in historical buildings or manufacturing halls.

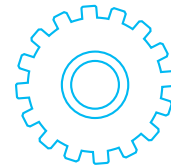
Though it is most frequently used to control lighting and HVAC (Heating-Ventilation-Air-Conditioning), in references you will find iNELS projects using an access system, shading control, a video camera security system or distribution of audio/video.



BMS - Building management system



Access system



Automation



Connection of BMS



Future office

iNELS includes a mode/solution for a modern and functional solution of office buildings that focuses on energy savings, work efficiency and the working environment.



Buildings

In large buildings, horizontal control of individual offices or rooms is connected through the Connection Server to the building's vertical system, including connection to BMS.



Gastro

In dining facilities, major emphasis is placed on light scenes and on optimum air quality, where iNELS can efficiently control heat, cooling and recuperation all at once.

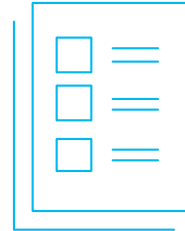


Lighting control

iNELS includes units for control of DALI ballasts, and can thus control up to 4,000 lights. We can dim various light loads including LED sources and RGB strips.

How to proceed with the proposal?

By the design you must know what you have in your property, or you will have. We have prepared a checklist that you can download in a format PDF. Fill in as much information as you know and send it to our email or postal address.



You can find interactive price quote **HERE!**

www.inels.com/checklist

We advise you online

The screenshot shows a live chat interface. At the top, there's a blue header with the text "Support ELKO EP" and a close button. Below the header is a profile picture of a woman and the text "Live chat Ask us anything". The chat history shows three messages: a greeting from "Support ELKO EP", a question from "Visitor 1" about installation options, an answer from "Support ELKO EP" about a showroom, and a thank you from "Visitor 1". At the bottom, there's a "Send" button and "Powered by Smartupp".

24
hour

Customer service

Support

7
days

a week

Tips / Advice / Help

12
months

Facts and Stats

40 %

CZECH

30 %

EXPORT



30 %

BRANCHES



16

BRANCHES
OVER THE WORLD

70

EXPORTING
COUNTRIES



240

EMPLOYEES

5 000

iNELS INSTALLATION

12 000 000

MANUFACTURED PRODUCTS

ELKO EP Holding



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