ELKO EP, both a traditional and innovative Czech manufacturer of modular electronic devices, has been your electrical installation partner for 18 years. Our product line has developed dynamically. From the original production of classic modular devices (first basic, then highly sophisticated), we have advanced to a sophisticated wireless RF Control system. Our experience has been used to create a constantly improved intelligent system of electrical installation iNELS. Our successful and stable market position is the result of our in-house development efforts and state-of-the-art production lines. All our products and system components have been designed and produced in compliance with ISO standards.

**Complex solutions**

We have decided this year to go the way of complex solutions. We want to provide you a sufficiently varied product offering in our e-shop and at wholesalers, and to individually design and implement your own ideas. Along with high-quality products, you can rely on our consistent technical support, professional consulting services and quality guarantee. We have been continuously working on improving existing products and developing entirely new products. Thanks to our varied product portfolio, we have established ourselves on foreign markets. We have successfully set up branch offices in Russia, Poland, Hungary, Slovakia, Romania and Ukraine; we also sell our products in dozens of other countries as a supplier and partner of electrical engineering leaders or on our own.

Our motto “Always something more” is reflected not only in the advantages of our products, but also in the sustainable approach to natural resources in manufacturing, as well as in the possibility to use our products to save energy.
RELAYS - Modular electronic devices  www.elkoep.com
A wide range of electronic modular devices, which bring new possibilities to home and office control, monitoring and security, as well as to industrial process control: time relays, installation contactors, stair-case automatic switches, time switches clocks, dimmers, thermostats, power supplies units, control and signalling devices, GSM gates, etc.

iNELS - Intelligent Electrical Installation System  www.inels.com
iNELS will transform your house into a timeless intelligent household. It will take charge of heating and air-conditioning regulation, lighting control and home appliance switching, while also providing perfect security for your home. Enjoy controlling your entire house via a TV screen thanks to iNELS Multimedia (iMM) or use the elegant iNELS Touch Panel (iTP).

RF Control - Wireless control  www.rf-control.com
A unique wireless control system providing you perfect control over your home! The RF Control system enables you to control functions such as heating, lighting, electrical appliances and window shutters, all with a single touch. No demolition work, fast and easy installation, exclusive design of wireless wall switch buttons and other components.

LOGUS® - Home switches and sockets  www.logus90.com
We offer you exclusive switches, sockets and accessories in a standard plastic or metallic finish. However, there are also charming luxury frames from purely natural materials such as genuine wood, metal, granite or hardened glass. Be exceptional!
The Intelligent Electrical Installation System (iNELS) controls the operation of your house, from heating and air-conditioning regulation, to the control of lighting, shutters and other appliances, to home and property security.

It can recognize the changes of system functions against the required status and inform you about such changes via mobile phone, PDA or the internet.

iNELS is designed to satisfy the needs of small electrical installations as well as to control extensive units requiring automation and complexity.

iNELS may be used for family houses, flats, offices, sales premises, as well as for large buildings, building complexes and industry.

### iNELS Multimedia

For even greater convenience, a multimedia extension has been added to the standard iNELS system. iNELS Multimedia (iMM) will allow you to control your entire house via a TV screen or the iNELS Touch Panel. You have your entire household in the palm of your hand from any place in your home you choose. You can very easily control the heating, air-conditioning, lighting, window shutters, security alarm and other devices connected to the system.

Thanks to a timeless visual design, you will not only get a perfect household manager, but also a modern design element for your home.

### MULTIMEDIA EXTENSION OF THE SYSTEM

![Diagram of multimedia extension of the system]
### iNELS TOUCH PANEL (iTP-B, iTP-T)

An ideal and practical control unit for your entire household. iTP is used for quick and effective control of iNELS/iMM functions and facilitates transparent monitoring of your house.

iTP allows you to control the functions of your electrical installation. You can control heating and lighting in your house, switch devices on/off, monitor images from installed cameras, view pictures, play your favourite movie, switch TV channels, play music or answer e-mails.

Unlike iMM, iTP has some other practical accessories such as a calculator, notepad, e-mail client and, of course, an internet browser, which enables fast web access. iTP may be either wall-mounted (iTP-B) or portable in the form of a tablet (iTP-T).

### iNELS TOUCH PANEL MAIN MENU DESCRIPTION

<table>
<thead>
<tr>
<th>Electrical installation</th>
<th>Heating, air-conditioning, ventilation control</th>
<th>Control of camera, alarm, door, etc.</th>
<th>Playing pictures, movies, music, internet, intercom</th>
<th>E-mail, calculator, notes, information</th>
<th>Scenes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function</td>
<td>Lamp</td>
<td>LED</td>
<td>Light</td>
<td>Bulb</td>
<td>Radiator</td>
</tr>
<tr>
<td>Climate</td>
<td>Temperature</td>
<td>Relative humidity</td>
<td>Wind</td>
<td>Wind energy</td>
<td>Air conditioning</td>
</tr>
<tr>
<td>Safety</td>
<td>Camera</td>
<td>Surveillance cameras</td>
<td>Alarm</td>
<td>Gate</td>
<td>Gate door</td>
</tr>
<tr>
<td>Media</td>
<td>Photo</td>
<td>Movie</td>
<td>TV</td>
<td>Music</td>
<td>Internet</td>
</tr>
<tr>
<td>Favourite</td>
<td>Diffs</td>
<td>Calculator</td>
<td>Notes</td>
<td>Information</td>
<td>Email</td>
</tr>
<tr>
<td>Scenes</td>
<td>Light ON</td>
<td>Light OFF</td>
<td>Scene 3</td>
<td>Dinnerroom</td>
<td>Free space for adding any customizable icon</td>
</tr>
</tbody>
</table>

### VARIABLE SETTINGS

Although iTP was originally designed as a part of iMM, it can function independently - i.e. only with iNELS or with iMM. Configuration is very easily performed using a web configurator. Characters are typed using a virtual keyboard. iTP also allows users to set up scenes, i.e. to group events from INELS which can then be accessed with a touch of a button. You can determine which functions you wish to have on your iPT, select their location or have the location arranged automatically. The appearance of your new household manager is entirely up to you.

For more information visit www.inels-multimedia.com
Wireless control system

Wireless communication via RF system

Overview of RF Control wireless elements

RF transmitters
Controllers
RF Touch-W - Touch control unit for mounting on the surface
RF Touch-B - Touch control unit for mounting in an installation box
RF Pilot- Remote Controller with display
RF KEY - 4-channel remote controller as a Keychain
RFWB-20/G - 2-channel wireless wall switch button in LOGUS™ design
RFWB-40/G - 4-channel wireless wall switch button in LOGUS™ design
RFTC-10/G - Digital temperature regulator in LOGUS™ design

Converters
RFIM - 20B - Universal transmitter module under switch/button
RFIM - 40B - Universal transmitter module under switch/button
RFSG - 1M - Universal transmitter module. Supply voltage 230V, 1-MODULE design
RFTI - 10B - Wireless temperature sensor, MINI design

Repeater
RFRP - 20 - Signal repeater in a wireless socket box

Detectors (see Overview of RF Control wireless elements, page 12)

RF receivers

Shutter actuators
RFJA-12B /230VAC -2x switching 8A relay with protection
RFJA-12B /24VDA - Contactless switching

Dimming actuators
RFDA-11B - Single-function dimming actuator, 1 light scene
RFDA-71B - Multifunctional dimming actuator, 7 functions
RFDDEL-71B - RF dimmer for LED lamps and dimmable energy-saving fluorescent tubes

Switching actuators
RFSA-11B - 1-channel single-function switching actuator
RFSA-61B - 1-channel multifunction switching actuator
RFSA-62B - 2-channel multifunction switching actuator
RFSA-61B - 1-channel multifunction switching actuator, MODULE design
RFSA-66M - 6-channel multifunction switching actuator, MODULE design

Temperature actuators
RFSTI-11B - Switching actuator with temperature sensor
RFSTI-11/G - Switching actuator with temperature sensor, LOGUS™, manual control

Analog actuator
RFDAC - 71B - Actuator with analog output 0(1) – 10V

Accessories
ALPHA AA 0–10V - Thermo valve, DIML - dimmable ballast
Temperature sensors, internal antenna, external antenna AN-E

Additional information
RF SETS - Transmitter and receiver combinations
Easy and quick program setting
Use instructions and product dimensions
Product loadability
Wireless solution for your electrical installation
WIRELESS SYSTEM
Your house at one touch

WIRELESS TOUCH CONTROL UNIT
RF PILOT-REMOTE CONTROLLER WITH DISPLAY

RANGE 200 m  FREQUENCY 868 MHz

Switching electrical devices on/off
Light dimming
Heating regulation
Air-conditioning control
Shutter control
Detector control
What are the benefits of wireless communication?

- Remote switching of home appliances or electrical devices
- Light dimming, light scenes
- Controlling shutters, blinds and inter-window blinds
- Controlling the entrance gate and garage door
- Manual or automatic control
  - according to a preset program
- Switching home appliances on/off depending on the response of sensors
- Response to (undesired) opening of a window or a door
- Response to the movement of persons (authorized and unauthorized)
- Energy savings thanks to lighting and heating regulation

- Easy installation without any demolition works or cutting into walls. Receivers (actuators) may be installed directly into a suitable mounting box, lighting covers, switchboard or anywhere else, depending on the possibilities of your current electrical installation.

- Flexible location: ideal for installing in existing buildings, as well as for refurbished and new buildings: thanks to RF Control, you are not limited by the location of a switch, for instance when moving furniture. The wireless wall switch button may be glued to glass, mounted on a beam or just placed on a night table and easily moved elsewhere at anytime.

- Controlling lights from your terrace or opening your garage? You will have the keychain - portable control - always ready!

- The universal transmitter module converts up to 4 potential-free external inputs (buttons) to RF signal, facilitating the connection of the following devices to the system: door switches or buttons, electronic alarm sensors (fire, smoke, door detector,...), bells, etc.

- OASIS detectors may also be used for control. They respond to movement, door or window opening, increased temperature, etc., making it possible, for instance, to switch on a light when passing by or to switch off heating when the window is opened.

- Property protection and safety. A flood, temperature, fire or gas leakage sensor sends a signal to the actuator, which closes the water or gas supply, switches on ventilation, etc.

- It allows controlling and setting various light scenes, or sunrise or sunset simulations. It also enables you to control shutters, blinds, gates, garage doors and switch ON/OFF appliances and electrical devices.

- The transmitters (wireless wall switch button or Keychain) do not need an external power supply (battery-powered).

- Receivers (actuators) may be mounted in an installation box, under the existing switch, light covers or ceiling, or on a DIN rail inside the switchboard.

- A smart design of wireless wall switch buttons with plastic, glass, wood, metal or granite finish.

868 MHz

RF TOUCH FOR CONVENIENT ONE-TOUCH CONTROL

SWITCHING ON LIGHTS FROM ANYWHERE

CONTROL – LIGHT SCENES

SWITCHING ON LIGHTS WHEN PASSING BY

CHOOSE YOUR OWN STYLE...*

Flat wireless wall switch buttons to be mounted on glass, tiles, furniture, etc. Quick change of location when you are moving...

User-friendliness, high-quality materials and modern design are the characteristics of the LOGUS® line. The line offers basic plastic frames as well as luxury finishes from natural materials such as high-grade metals, hardened glass, wood or granite. Classic home switches and sockets are also delivered in the same design as wireless controls.

* For control with wireless wall switch button, you can connect the existing controllers (using universal input modules) to the system or use flat wireless wall switch buttons with the LOGUS® design.
RF Control wireless system
\textit{touch control unit}

RF Touch offers easy control from a single location! It connects other RF units to form a single intelligent wireless system. Heating, switching on/off, dimming and shutter control can easily be set or customized according to your requirements and wishes. The setting and controlling of units is done via the touch screen of the device.

**RF Pilot - Remote Controller with display**

The RF Pilot communicates with all wireless elements of the RF Control system: switches on/off and dims any light at home, controls shutters and blinds, enables group control of receivers (executing more commands at once with a single touch of a button) and creates its own menu and labels for the controlled device. A top-class complement to the RF Control system!

**Transmitters**

Wireless wall switch buttons serve as transmitters to control RF Control wireless system receivers.

**Multifunction receivers - up to 7 programs**

The receivers are manufactured to serve as switching actuators, dimming actuators and shutter actuators. Switching actuators may switch currents up to 16A using a relay with a AgSnO\textsubscript{2} contact, which also enables users to switch lights other than those with bulbs. You can use the switch function in the basic version - switch on/off, or in the multifunction version, which offers up to 6 functions: button, ON/OFF, impulse relay, delayed return, delayed start. Switching actuators in the module design are equipped with an antenna - depending on whether it is mounted into plastic or metal switchboard.

Dimmers are designed as universal (RLC) with automatic detection of the load type. They can dim regular light bulbs, halogen lamps, low-voltage 12V halogen lights powered electronically via a toroid transformer. In the basic design, the dimmer offers the “light scene” program and the OFF function - up to 7 programs in the multifunction design: 4 variants of light scenes, sunrise and sunset simulation, ON/OFF function.

**RF Control & iNELS**

RF Control can be integrated into communication with intelligent electrical installation system iNELS.

Control - wireless RF Control wall switch button is based on the same design as controllers in the iNELS system.

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**RF PILOT COMMUNICATES WITH ALL WIRELESS ELEMENTS OF THE RF CONTROL SYSTEM**

**SWITCHING ELECTRIC APPLIANCES AND DEVICES**

**CONTROL SHUTTERS AND BLINDS**

**Range up to 200 m**
RF TOUCH CONTROL UNIT
Is a touch control unit for the RF Control system, which enables you to have command over your house. It provides you complete control over heating, switching on/off electrical appliances and devices and pulling up/down window shutters. You can also set a weekly program. Everything is done automatically and wirelessly. Control is effected via a touch screen set in the luxury LOGUS® frame design.

DIMMING ACTUATOR
Setting light functions, such as dimming lights to create ambiance for watching TV, gradual switching on/off lights.

ANALOG ACTUATOR
In combination with a dimmable ballast to dim fluorescent light tubes and setting light scenes, 1–10V. In combination with thermo valve for heating regulation, 0–10V.

WIRELESS DETECTORS
The OASiS detectors can also serve for automatic control; these detectors respond to movement, door or window opening, or temperature decreases. (For instance, movement sensor switches on/off lights, the window detector blocks heating or air-conditioning.)

WIRELESS ACTUATOR WITH TEMPERATURE SENSOR
Measures temperature with internal or external sensor and switches on/off heating devices in accordance with a preset program or manually. Available in the LOGUS® design.

SHUTTER ACTUATOR
Control element for window shutters, canopies, shutters, garage door, etc.

WIRELESS WALL SWITCH
Control switching on/off and dimming lights, window shutters, roll-up blinds, electrical appliances... They have a flat base and therefore can be mounted anywhere on glass, wall, wooden beam, tiles,... In the LOGUS® design.