

NEWS

ELKO EP Magazine

Autumn 2017



SMART STREET LIGHTING

14

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ELKO
ep[®]

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5. – 9. 4. 2017

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Make yourselves at home, enjoy and experience the best of architects



The private island of Velaa, Infoline



Jiří Konečný
founder and CEO of ELKO EP

Dear Readers and valued customers,

in the last few years we have been thoroughly educated to use every moment of free time. We just do not expect to be in a queue at a cash desk, in the waiting rooms at the doctors or at bus stops. We always have a smart link to the world and are online. This trend plays boldly into the hands of our company because of our intensive education on the topic, what exactly is a smart house; we very quickly moved onto to the themes of smart buildings, offices, parks and whole cities. We combine the seemingly irreconcilable, shortening the distance, we insist that nothing is impossible and everything goes. On the other hand, while we cease to be patient we leave the little things to happen naturally by themselves.

Next Christmas is just ahead of us. There will be the additional onslaught on eshops, online payments, and delivery within 24 hours. We wish more than ever to make smart technology that makes it easy for you to do everything you need and to speed up everything you need in everyday life. Just so you can enjoy it comfortably and naturally with people that you love - the joy of shared moments, support in difficult moments and the warm closeness that technology can bring and for which there is no substitute.

ELKO EP team



Jiří Konečný winner of the title of 'Personality of Smart City 2017'

The „Smart cities for the future“ competition is under the patronage of the Ministry of Industry and Trade and the Ministry for Regional Development. It appreciates the personalities and projects that contribute to the development and implementation of smart city technologies. In particular, it assesses the feasibility and sustainability of the proposed solutions. The aim of the competition is to promote innovative approaches for improving the quality of life in towns and cities, especially from the point of view of efficient administration, energy and cost savings, as well as the safety of the population.

„This award is recognition of our long-standing commitment to building smart technologies not only for home and building control, but also now for cities. I am convinced that in the coming years a revolution is waiting for us in this area. We do not even know how these technologies in smart cities will make life more enjoyable,“ commented Jiří Konečný.



Jiří Konečný was presented with the prize by Karly Šlechtové the Minister of Regional Development on 21. 6. 2017

We will support the Football Club next year

The Fastav Zlín footballers won the final match against Opava and celebrated victory in final of the Czech Mol Cup.

Fastav Zlín are scheduled to take part next year in the Europa Cup Where ELKO and the other partners are proud to accompany them. In addition there is one positive note. If this year's Europa League play-offs are dominated by Manchester United, Zlín will go straight into the group stage where they can meet the biggest clubs in Europe.



Zlín's football club dominated the Mol Cup final 19. 5. 2017

For the third time, we partnered the „Smart Home & IoT Perspective“

The conference, organized by the Association of Smart Living, took place on 19 September 2017 in Prague, at the congress centre of the Grandior Hotel. It focused on new opportunities and perspectives of the Internet in smart housing, buildings and smart cities.

Participants introduced the possibilities of designing smart houses, apartments, commercial and other types of buildings. The conference was designed especially for architects, designers, interior designers, electricians, electrical installers, building engineers and other professionals, students, or those interested in these topics.



The conference organizer is the Association of Smart Living, of which ELKO EP is a founding member.

Level switch, your invaluable helper

The HRH-5 level switch is used to monitor the fluid level, for example in wells, tanks, tankers and other similar storage facilities. It is offered in two configurations, single and double level monitoring. This makes it possible to measure the lower or upper level of the fluid, both levels at the same time, their minimum and maximum levels.

Use of the switch:

- If the minimum value is reached, the switch switches on the pump, and keeps it running until the maximum level is reached. On the other hand, in the case of maximum level exceeded detection, it activates the pumping function in the same way.



Level switch HRH-5

We certify iNELS Air products

By default we use certified communication models in our products, which means that only the „Sigfox Ready End Product“ certification needs to be added. And that's exactly what we have for the first two products from our new iNELS Air range.

AirIM-100S – Universal sensor for detection of emergency situations. Its versatile use is, for example, for monitoring temperature, voltage or current passage, levelling or energy measurements.

AirTM-100S – Pulse transducer that uses magnetic, infrared or LED sensors to capture data from home energy meters (electricity, water, and gas). Thanks to these you have your consumption under control.



AirIM-100S / AirTM-100S

New packaging of products

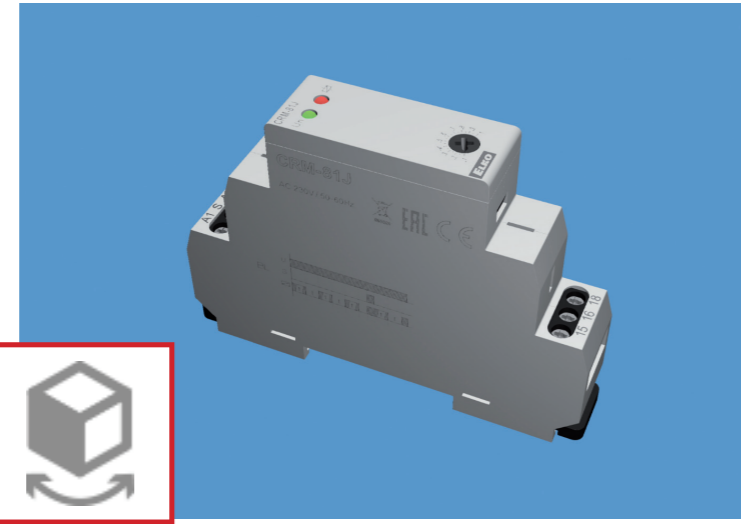
At ELKO EP, we strive to continually develop and move forward, and now we have done so with our packaging in which the products are packed and distributed to our customers. Obviously, we pay attention not only to design but also to sustainability, so they are packed in recyclable materials and they fixed without the use of any adhesives, so they are as environmentally friendly as possible.



The new packaging of boxes enhances protection and goes hand in hand with today's standards.

3D product previews

Dear customers, we want to provide you with the most realistic product previews. That is why we have strived for the best rendering of images. You can now find 3D product previews for those that are marked with a pictogram.



References

Implementation of smart solutions and the use of our products in action can now be seen in the References section, where we continuously **add to the currently implemented projects** of houses, apartments, hotels and commercial spaces of a varied nature.



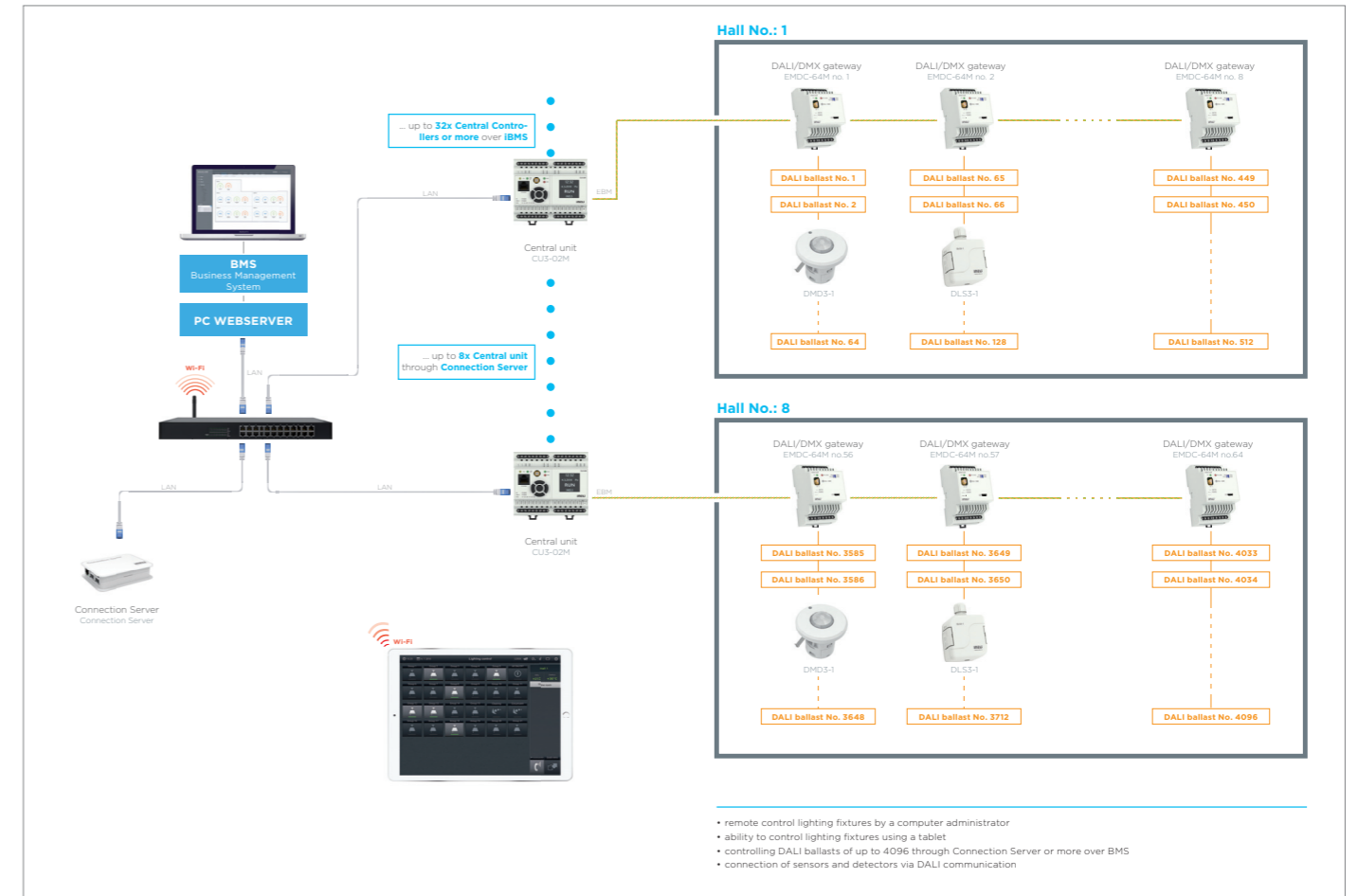
Hotel Kempinski Bayterek
Almaty / Kazakhstan



Restaurant Jamie's Italian
Budapest / Hungary

The new „Solution“ section

The new 'Solution' section. In this section we add more and more technological devices and connective products into smart units. Whether it is hotels, offices, commercial spaces or smart cities, we always strive for maximum efficiency, economy and comfort. We offer solutions for offices, residences, industry, hotel, commercial spaces and Smart Cities.



Exhibitions / Conferences / Training

Keep up-to-date with when and where to find us. We are planning a lot in the autumn. In the middle of September, we will head to Dubai for the **Dubai Hotel Show**, we are constantly conducting expert presentations with our partners, excursions to the company, and regular **training** for people interested in new information and trends.



<p>Exhibitions 2. 11. 2017 Thursday</p> <p>More information</p>	<p>Conference 14. 9. 2017 Monday</p> <p>More information</p>	<p>Trainings 10. 10. 2017 Tuesday</p> <p>Register</p>
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The first half of the year was marked by these exhibitions

In the first half of the year, we managed to get around a dozen domestic and world exhibitions and fairs - we repeatedly went to the Middle East and West to Europe. Every show was a test and a commitment by us. We were very excited about our stands in

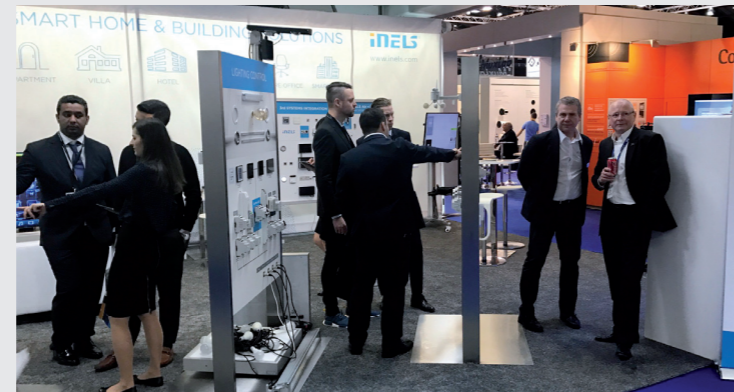
all the countries we have visited so far. We listen to exhibitors who help us improve our products and systems. They lead us step by step to make our products even more functional and user-friendly.



ISE Amsterdam, Netherlands



7.-10. 2. 2017



Interactive panels generated interest in Amsterdam.

THE HOTEL SHOW SAUDI ARABIA Dubai, SAE



4.-6. 4. 2017



We presented our hotel solution in Saudi Arabia.

AMPER Brno, Czech Republic



21.-24. 3. 2017



We did not stop at Amper. We introduced news from the field of lighting management, smart city, energy measurement and hotel solutions.

URBIS Brno, Czech Republic



26.-29. 4. 2017



First exhibition focused on smart city, where we introduced our own solution.

CONSTRUMA Budapest, Hungary



5.-9. 4. 2017



There we have so many exhibition years behind us but there is still something to do! Thank you for your interest!

MEETING EXPORT PARTNERS Holešov, Czech Republic



17. 6. 2017



Representative met in the premises of the castle in Holešov.

Branch office opening in India

On Thursday, 7th September, one of the largest Indian cities Ahmedabad held a major event. ELKO EP has grown another foreign branch. Right in the second most populous country in the world, India.

The grand opening ceremony took place at the Marriot Hotel, with over fifty significant system partners attending the spectacular event. „The ceremony to mark the opening of a branch is just the first pleasant duty in a long series of planned steps. Currently, new showrooms are being built in Ahmedabad, New Delhi and Bangalore, we are planning to increase our turnover by five million from the current twenty, and ten technical customer trainings will take place in the course of the month.“ said Boris Kamenický, ELKO Business Development Manager EP.



Hotel Marriot, Dubai
7. 9. 2017

Branch opening in Croatia

In May this year, the ELKO EP family was expanded with another member - in turn, the fourteenth branch. She was born in Zagreb, Croatia and will grow up under the supervision of director Bruno Crnički. We wish in the future that everything thrives and prospers.



Zagreb, Croatia

Visit from students of the 1st elementary school in Holešov

During the visit of the children of 1st Elementary School in Holešov, a competition for the most beautiful picture of a visit to ELKO EP was announced and Jiří Konečný personally took part in the evaluation. At least for a moment he returned to his school desk and reciprocated the children's visit. In the end, each child has been awarded a prize in honour of the visit and we will see if any of them will appear in the future - perhaps in the ELKO EP development department.



Jiří Konečný with pupils of the 1st Elementary School in Holešov
26. a 28. 6. 2017



VOLTAGE

For checking over / under voltage motors, pumps, generators, machines, building machines.



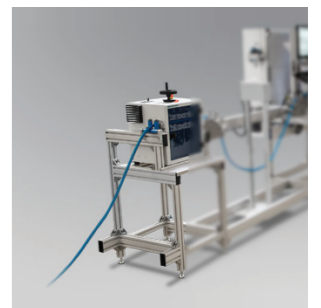
CURRENT

For control over / under load of motors, lifts, control systems, boiler flow, lights or sockets.



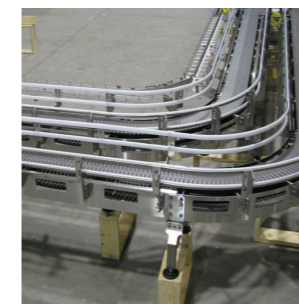
FREQUENCY

To control equipment that produces renewable energy from - water, wind, solar - sources.



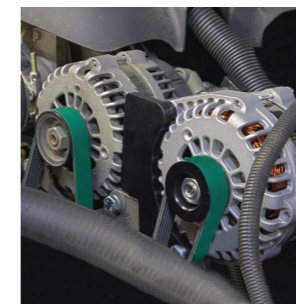
GROUND FAULTS

Ground disturbances often start as a result of isolation interruption. Damage to the device (s) and possible injury may occur. Early detection of the problem of earth faults can prevent catastrophic failure of production.



TROUBLESHOOTING

To check the speed of engines that play a significant role in production. Their inadequate control may cause an outage.



PHASE

To check the voltage on both sides of the circuit breaker, determines the correct phase angle and voltage, for example synchronizing two alternators.



RETURN POWER

Directional relay used to control power from a generator running parallel to another generator or auxiliary device.

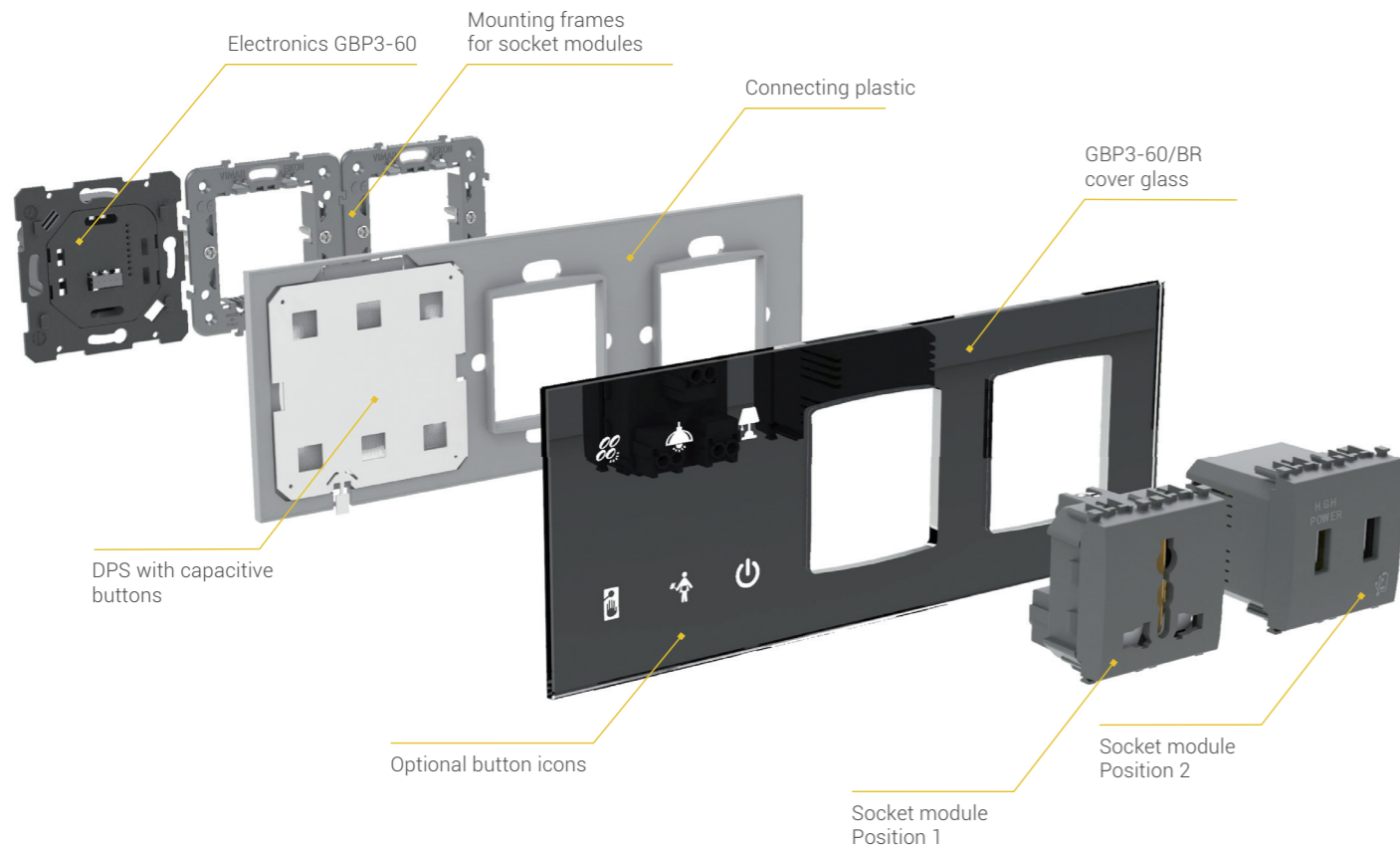


MORE INFORMATION

DOWNLOAD THE RELAY CATALOG



Bedside panel: luxurious and flexible



Glass panel GBP3-60

Technical parameters:

The GBP3-60 glass panel is a part of a complete range of iNELS Hotel Room Management (GRMS) units and its main use is the so-called Bedside Panel, a unit with customizable control buttons and modules for powering, for example, device.

The basic module is equipped with six touch buttons, the function of which can be customized to the investor's requirements. Of course, you can use the „Master OFF“ function, which will be appreciated by every hotel room user. In addition, switching and dimming functions, shading controls, various scenarios, etc. can be selected.

The GBP3-60 can be equipped with a wide range of modules, e.g.

- Power AC sockets: UNI, Schuko, French and British
- Other types of modules: 2USB, USB, LAN and Media

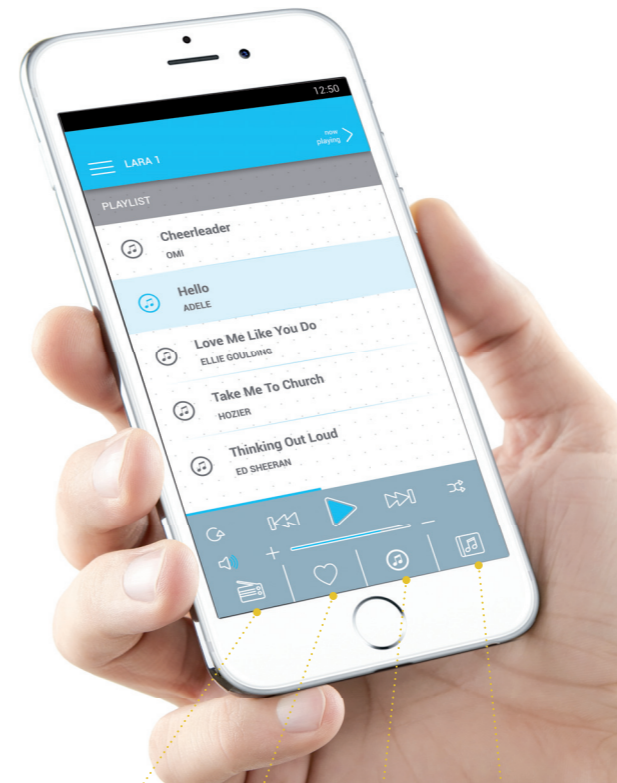
The GBP3-60 is intended for mounting into a triple installation box the centre of the individual holes is 71 mm).



LARA wirelessly plays music from your phone

LARA Dio

The LARA Dio application is designed to control LARA devices that excel in their dimensions and functions. LARA is first and foremost an extraordinary player; playing internet radio allows you to listen to any station in the world, without having the unpleasant rattling of a conventional FM tuner.



Play music from your smartphone

Thanks to the performance and design of the device is also possible to use **LARA in every room in the house** (children or living rooms, bedrooms, kitchens, bathrooms), and also in waiting rooms, wellness and other areas. LARA can also be used as an intercom.

With LARA Dio, you can control all LARAs' from a single controller (Android smartphone or iOS smartphone), with no limit to the maximum number of devices controlled. Application control is very intuitive, and the user can easily store their favourite stations, which are available at any time.

The exceptional nature of LARA lies in its technical design. It is possible to choose from a wide range of speakers, colour design and installation method. LARA also offers the possibility to connect an external amplifier via line output.

You can control your LARA set in our LARA configurator.

For proper application functionality, a firmware upgrade is required in the eLAN-RF-003 smart box (you will find the firmware on the right "downloadable documents").

Do not need:



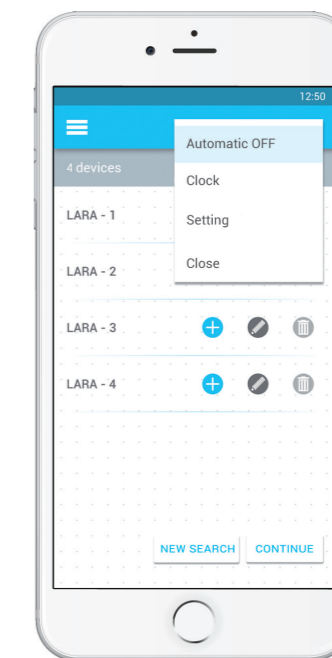
DEVICE COMPATIBILITY



BLUETOOTH



SWITCHING EQUIPMENT



LoRa is not a parrot

Control technologies for lighting fixtures are numerous. What they need for their operations is a reliable network. We have chosen the LoRa network for public lighting. It allows devices to communicate

inexpensively, safely, over long distances and optimized for minimal power consumption. If you do not have a network yet, we will be happy to build it for you. The LoRa network can then become the basis of the Smart City.

ELKO EP prepares implementation in the district of Prague 3. The reward for the winners of smart city for the future is the installation of smart lighting in one of the city parks.



A Showroom in which you can live

Stay and enjoy yourself while in the hands of the best architects

The Hi-tech apartment in Jakubská Street in Prague is one of the results of the Living Showroom of the Adam Rujbr Architects Architectural Studio, which was created with the support of modern equipment suppliers.



How does it work in the presence of a guest?

Upon arrival, with one touch of the central button it lights up according to pre-set scenes, the level of ventilation increases, and the welcome screen starts on the interactive glass partition. By pressing a button, the bar turns on the touch screen and the speakers at the same time. The peculiarity of the apartment is a transparent bathroom located in the middle of the apartment. For anyone who likes more privacy, just by pressing the „privacy“ button, they will have it. The glass partitions of the bathroom are tinted, the curtains are drawn and the light is lit. On leaving, everything will return to its original state, and the level of ventilation will be reduced. In the apartment, all devices can be controlled using glass touch controllers and a tablet.



“
The apartment is full of technological sculptures, including a solution of smart living with iNELS. The system regulates heating, controls lighting and lighting scenes, curtains, projection on the Smart i-Wall glass wall.
”

A very desirable function for apartment owners is the possibility of remote unlocking and locking of the apartment. The host and the owner are not limited by coming to the site. Another advantage is the possibility to remotely increase the room temperature even before the guest arrives. On the other hand, when the guest leaves the house, the owner easily checks whether all lights and devices are switched off by activating the electronic door lock on the apartment's main door and, in the case of a longer absence for period of time, decreasing the heating intensity.

For incoming users, iNELS delivers comfort and a pleasant indoor environment, giving the owner a perfect overview and energy and time savings. The Living Showroom concept is built on energy-saving operations, renewable energy use and self-sufficiency. The original oak flooring has been turned by professionals into a modern, ecological house. The project is also a demonstration of the reclamation of unused spaces. The apartment in Prague is already the third apartment of Adam Rujbr Architects Living Showroom. You will also find a pilot project in Brno. The apartments are designed for those interested in bed & breakfast accommodation, lovers of high-quality modern architecture and for everyone who is looking for an experience in the on-the-go accommodation.



Where else does iNELS serve - references



Hotel Kempinski Almaty / Kazakhstan

- 5-star hotel in Almaty Kazakhstan
- public lighting control
- more than 15,000 lights controlled via DALI protocol
- setting scenes



Rocks Hotel & Casino Kyrenia / Cyprus

- 5-star hotel is located within walking distance of the historic city of Kyrenia
- iNELS controls lights with light panels, USB sockets and glass thermostats



Private Island Velaa Velaa / Maldives

- The world's finest resort
- In the villas, guests enjoy LARA comfort, thanks to which they control the music throughout the building
- Play music from storage: iTunes, Google Play, iPod, mp3 players, NAS network storage or radio
- control via LARA Dio, touch panel or remote control



Badorka Balaton Aquarium Balatonfüred / Hungary

- lighting control of all aquariums
- no wall mounted controls in the aquarium, all controlled by two wall-mounted tablets



Vostochnaya Space Station Russia

- on each Space Shuttle 600 VS316K relays will assist, they were selected from the best of fifty samples



iNELS brochure in practice

Selection of references

DOWNLOAD THE REFERENCE BOOKLET





Overview of ELKO EP events in 2017

Date	Name	Exhibitor	Focus	Venue
20. 01. 2017	15. Corporate Day	ELKO EP, s.r.o.	electro	Olomouc, CZ
07.-10. 02. 2017	Integrated Systems Europe 2017	ELKO EP, s.r.o.	electro	Amsterdam, NL
14.-16. 02. 2017	Middle East Electricity	ELKO EP, Middle East	electro	Dubai, UAE
18.-21. 03. 2017	Saudi Building & Interiors Exhibition	ELKO EP, iNELS Saudi	construction	Saudi Arabia, UAE
21.-24. 03. 2017	Amper 2017	ELKO EP, s.r.o.	electro	Brno, CZ
22.-25. 03. 2017	Coneco Racioenergia	ELKO EP, Slovakia	construction	Bratislava, SK
29.-31. 03. 2017	Eltefa 2017	ELKO EP, Germany	electro	Stuttgart, DE
23.-26. 05. 2017	Construmat	ELKO EP, España	construction	Barcelona, ES
12.-14. 09. 2017	ENERGETAB 2017	ELKO EP, Poland	energy industry	Bielsko-Biala, PL
25.-26. 09. 2017	Sigfox World IoT Expo	ELKO EP, s.r.o.	Internet of Things	Prague, CZ



Overview of ELKO EP conferences

Date	Name	Topic	Lecturer	Venue
28. 02. 2017	Intelligent Buildings Smart housing in smart cities	Development trends and potential of IoT; Future office	B. Kamenický, J. Zahrádka	Brno, CZ
02. 03. 2017	Smart City	Smart System - The Base of Smart Cities	J. Konečný	Brno, CZ
15.-16. 03. 2017	IRAN-CENTRAL EUROPEAN BUSINESS SUMMIT 2017	Iran Smart Construction in Comparison with Czech & Europe	J. Konečný	Praha, CZ
22. 03. 2017	How important is Smart	Smart Street Lighting	J. Konečný	Prague, CZ
30. 03. 2017	Challenges of the region/Zlín Region	Place to live, place of business	J. Konečný	Prague, CZ
11.-12. 05. 2017	Excursion Zlín, 2017 Not only for smart cities	Smart buildings and clever lighting	J. Konečný	Zlín, CZ
13.-15. 09. 2017	Adria Security Summit 2017	ELKO EP, Croatia	J. Konečný	Šibenik, HR

As early as 2010, ELKO EP formed 6 branches and when they arrived at the Holešov headquarters, they all parked in front of the main building. About seven years later, their number has more than doubled. Although more than ever, the world is connected to one large

network, it is a fact that an individual approach to business is very important, respect for culture, reasonable ambition, true passion and accurate promotion. That is why we are building a network of branches so that each customer can rely on a person who speaks his own language and understands perfectly their requirements and wishes.



PRODUCT GROUPS



Relay - Modular
electronic devices



Wireless RF Control



LOGUS⁹⁰ switches
and sockets



Audio/Video



Lighting



Energy management



iNELS Hospitality



IoT products
iNELS Air



Lighting control



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