

Highlights 2019

News from iNELS & ELKO EP World.



www.elkoep.com

The logo for iNELS, featuring the word "iNELS" in a bold, white, sans-serif font with a yellow dot above the "i", set against a background of a blurred electronic circuit board.

iNELS[®]

NEWS

- **iNELS Smart City**

- **iNELS Air**

- Examples of iNELS Air Products Portfolio

- **Smart Pole**

- Description of the Smart Pole

- **Smart street lighting**

- SSL controllers | SSL platform

- **Building Management System**

- **ELKO Cloud**

- **Hospitality solution**

- **New products**

- iNELS BUS, iNELS Air
iNELS RF Control, RELAYS

- **Apps for all...**

www.inels.com

CONTENTS

HIGHLIGHTS 2019

• Products Portfolio	4-5
• iNELS City... Smart City	6-7
• iNELS Air	8-9
Examples of iNELS Air Products Portfolio	
• Smart Pole	10-11
Description of the Smart Pole	
• Smart street lighting	12-13
SSL controllers SSL platform	
• Building management system	14-15
• iNELS BUS for iRidium mobile	16
• ELKO Cloud	17
• Hospitality Solution	18-19
• New products	20-22
iNELS BUS, iNELS Air iNELS RF Control, RELAYS	
• APPS FOR ALL...	23
• References	24-26



Smart City

Effective combination of elements into one unit

We offer not only the products but also the technology that are the basis of every Smart City. Whether smart buildings, urban furniture, air condition monitoring or weather monitoring and environmental aspects (landslides, water levels, shocks). Part of the Smart City platform is the effective management and permanent supervision of all elements in the SC location.

... see page 6-7

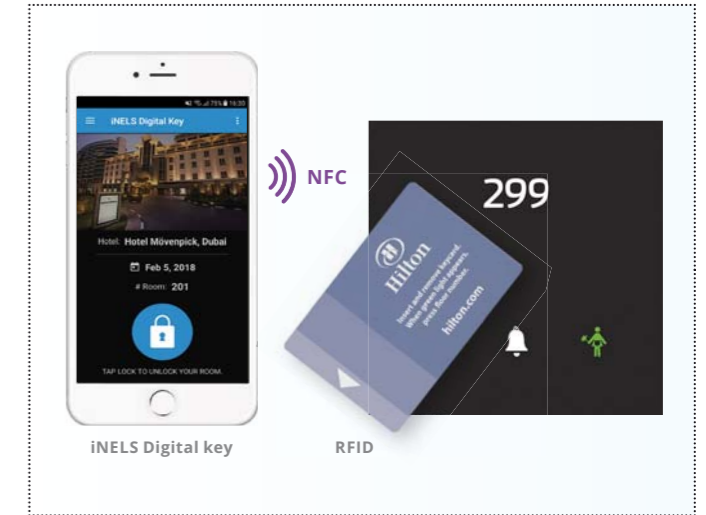


Smart Pole

as the basic pillar of a smart city

The poles of public lighting, of which there are a lot in every city, can also carry the necessary technology that are required in the city: chargers, communicators, air quality, emergency button, touch panel, WiFi.

... see page 10-13



iNELS Digital key

Unlock your room via mobile

iNELS Digital Key app provide you now possibility of open your door via your smartphone with NFC. App emulate RFID card – then you can use for door unlocking both way: card and/or phone. Main feature is entrance your room without reception check-in (on-line checked and go to the room directly).

... see page 18-19



iRidium mobile

Create app as you wish

iRidium software solution enables controlling of the iNELS home automation system as well as other 3rd parties devices (audio/video devices, media servers with full two way communication).

... see page 16



iNELS Air as different IoT ways

Responding to the dynamically developing IoT network

The Internet of Things, or „IoT“, represents a concept of connecting appliances, machines, scanners, etc., into an existing Internet structure. This structure uses specially designed networks for transferring small volumes of data with low energy consumption over great distances.

... see page 8-9



New products

iNELS BUS, iNELS Air, iNELS RF Control, Relays

Releasing of new products increase functionality, simplicity and effectivity of your installations. Time clocks set via app, compatibility with Google or Amazon, compact central unit for BUS installation or Smart pole as a highlight for smart city is proof of our progress in the technological product development.

... see page 20-22



Products Portfolio

Wireless electroinstallation



The system uses wireless communication between devices. The installation itself is variable thanks to this communication and can be gradually expanded.

Wired electroinstallation



The BUS system offers a unique solution for new installations (refurbishment) in family houses, hotels and villas. It offers a wide range of functions for both automation and comfort.

Energy management



Measuring energy consumption in the home or in larger areas is an increasing trend. Our products provide measurement with three different technologies - using a BUS or wireless system and thanks also with the IoT.

Timers / Relays



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, staircase automatic switches, time switches clocks, thermostats, power supplies units, etc.

Protection monitoring relays



Every household, every object and every machine needs a monitoring relay. There are several reasons why, overvoltage, undervoltage, phase failure, asymmetry, frequency, or power factors.

iNELS Air - IoT devices



iNELS Air is a response to the dynamically developing network for IoT (Internet of Things). The product group includes sensors and detectors for communication on the Sigfox, LoRa and NB-IoT protocol.

Lighting control



A sector that offers complete control over all lighting devices. From switching, dimming to controlling your favourite DALI luminaires. Everything can be controlled with a connection to iNELS wired or wireless technology.

Multimedia



Here you can find extensions for our iNELS system and not just for it. Lara Music Players, Intercoms and Door Communicators, Application Communication Servers and 3rd party applications.

Smart Pole



The poles of public lighting, of which there are a lot in every city, can also carry the necessary technology that are required in the city: chargers, communicators, air quality, info-panels, radio, WiFi.

Hotel Wireless Retrofit



Hotel Room Energy Saving Kit - Solutions for hotel rooms based on wireless technology is designed to function in existing hotels. It is possible to simply elevate the existing electrical installation to a higher level without long-lasting construction modifications.

Guest Room Management System

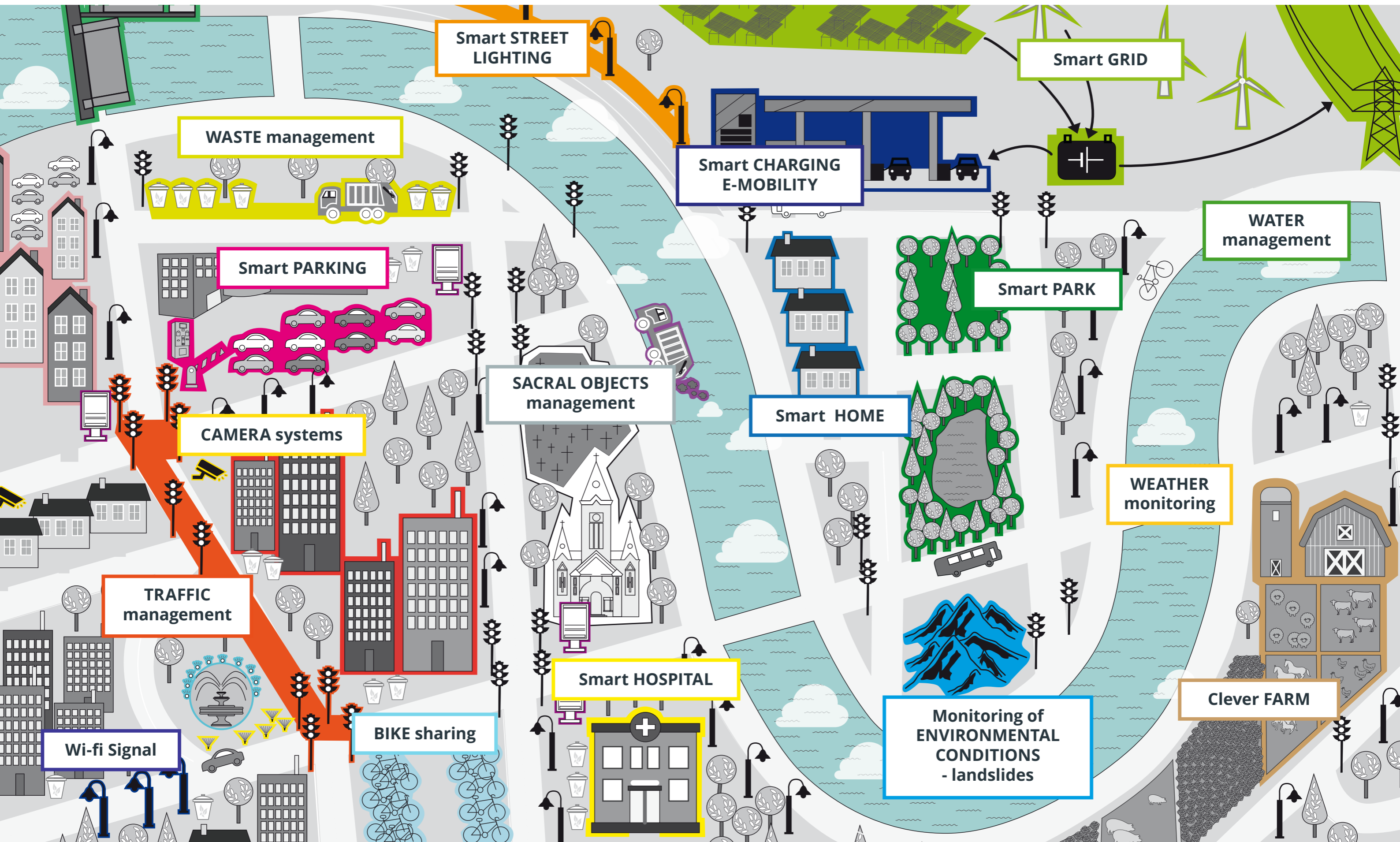


Guest Room Management System - The BUS system is designed mainly for hotels and offers comfortable and easy control of hotel rooms, reception and restaurant.

Building management system



Building Management System is a comprehensive solution for monitoring, and controlling even the most complex of building systems. You can monitor everything on your computer monitor or tablet in the comfort of reception or office.



Smart STREET LIGHTING

WASTE management

Smart CHARGING E-MOBILITY

Smart GRID

WATER management

Smart PARKING

SACRAL OBJECTS management

Smart HOME

Smart PARK

WEATHER monitoring

CAMERA systems

Smart HOSPITAL

Monitoring of ENVIRONMENTAL CONDITIONS - landslides

TRAFFIC management

BIKE sharing

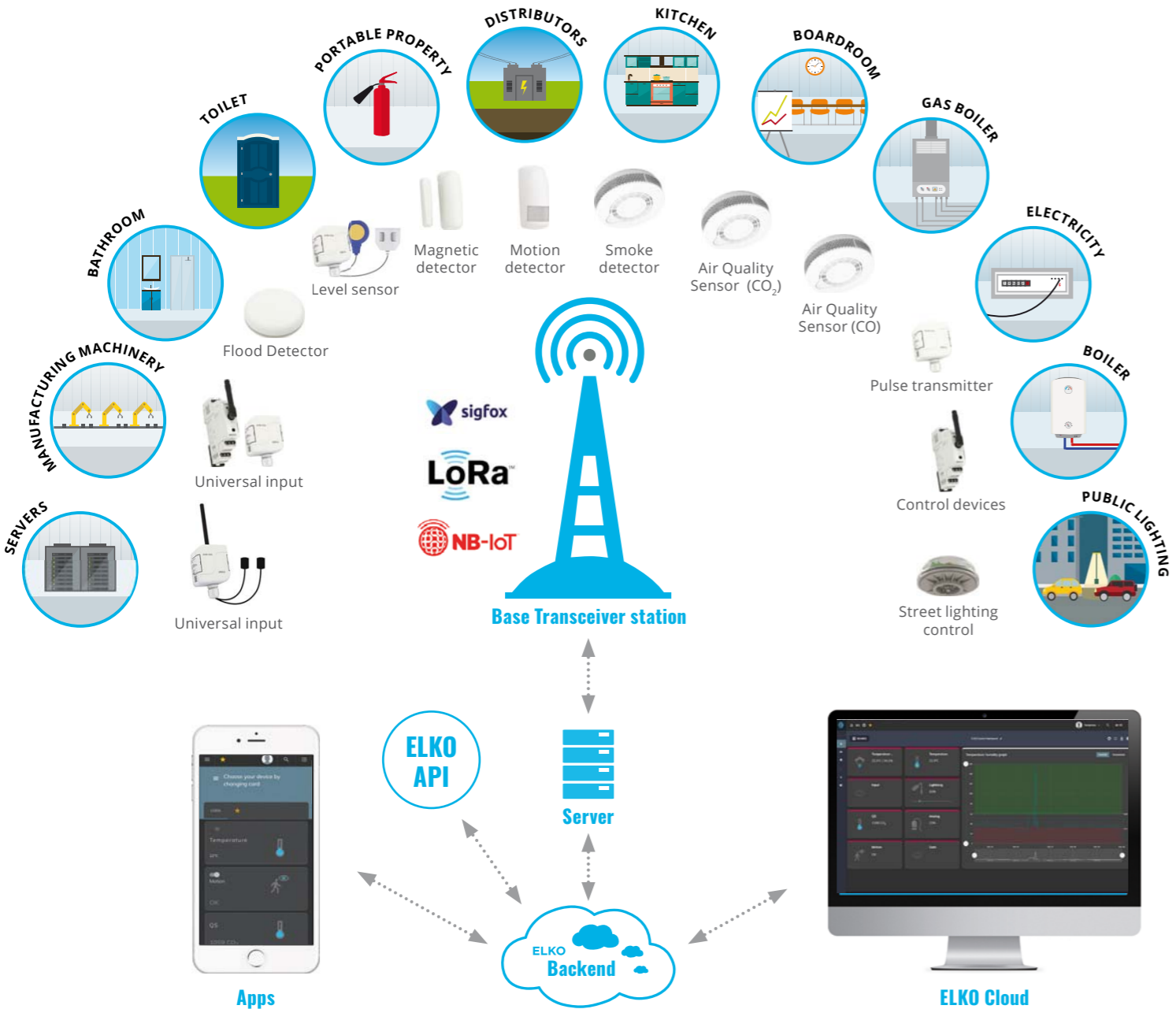
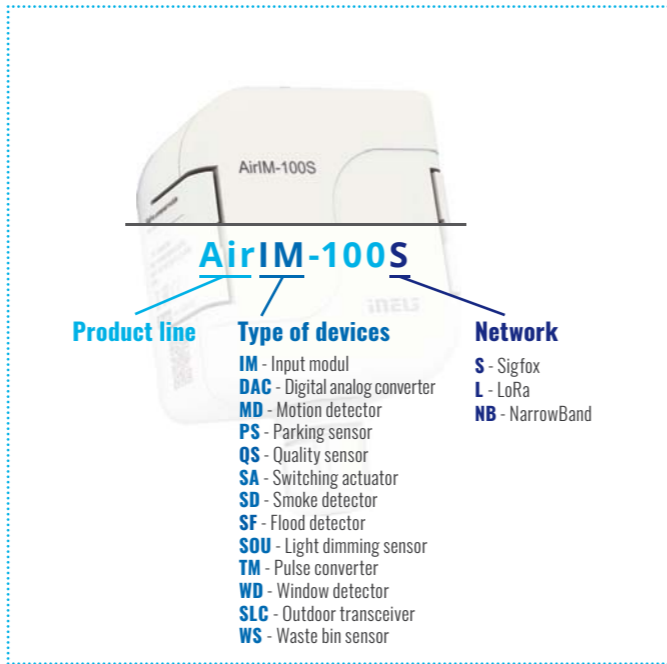
Clever FARM

Wi-fi Signal

iNELS Air was designed in response to the dynamically developing network for IoT (Internet of Things). The IoT wireless communications category describes the Low Power Wide Area (LPWA). This technology is designed to provide full coverage even inside buildings, with energy-saving and low-cost operation of individual devices.

The product group includes sensors for communication on the Sigfox, LoRa and NB-IoT protocol. Linking sensors with ELKO Cloud and IFTTT (If This Then That) is ideal for a wide range of applications.

Catalogue iNELS Air
elkoep.com/download



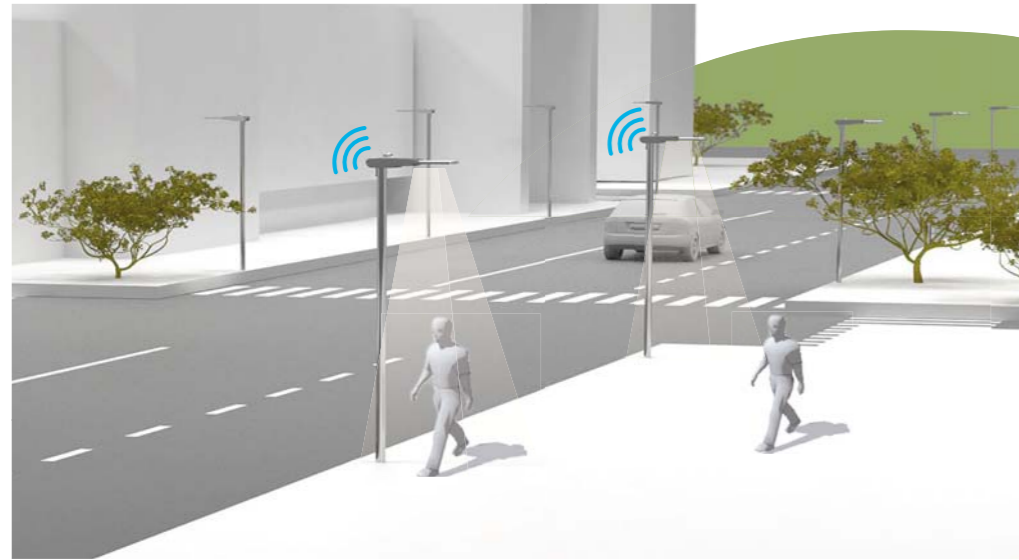
	Universal input	AirIM-100S	AirIM-100L	AirIM-100NB
	Universal input (for DIN rail)	AirIM-100S/M	AirIM-100L/M	AirIM-100NB/M
	Pulse converter	AirTM-100S	AirTM-100L	AirTM-100NB
	Motion detector	AirMD-100S	AirMD-100L	AirMD-100NB
	Magnetic detector (indoor)	AirWD-100S	AirWD-100L	AirWD-100NB
	Magnetic detector (outdoor)	AirWD-101S	AirSF-101L	AirWD-101NB
	Flood detector	AirSF-100S	AirSF-100L	AirSF-100NB
	Smoke detector	AirSD-100S	AirSD-100L	AirSD-100NB
	Air quality sensor (CO₂)	AirQS-100S	AirQS-100L	AirQS-100NB
	Air quality sensor (CO)	AirQS-101S	AirQS-101L	AirQS-101NB
	Twilight sensor	AirSOU-100S	AirSOU-100L	AirSOU-100NB
	Street light controller (DALI)	-	AirSLC-100L/DALI	AirSLC-100NB/DALI
	Street light controller (DALI) - LUMAWISE plug	-	AirSLC-100L/LWES/DALI	AirSLC-100NB/LWES/DALI
	Street light controller (0-10V) - LUMAWISE plug	-	AirSLC-100L/LWES/0-10	AirSLC-100NB/LWES/0-10
	Street light controller (DALI) - NEMA socket	-	AirSLC-100L/NEMA/DALI	AirSLC-100NB/NEMA/DALI
	Street light controller (0-10V) - NEMA socket	-	AirSLC-100L/NEMA/0-10	AirSLC-100NB/NEMA/0-10
	Parking sensor	AirPS-100S	AirPS-100L	AirPS-100NB
	Waste bin sensor	AirWS-100S	AirWS-100L	AirWS-100NB
	OEM module	-	LoRa Modul OEM	-

Smart pole

As the basic pillar of a smart city

In every big city we can find thousands today, sometimes even tens of thousands of public lighting poles. We can use this dense network to install sensors or security cameras, and thus increase security for the population. We gain information about the number of people or vehicles, we can evaluate the air quality or the noise level, inform the inhabitants

about the status of transport and parking places. Poles can also be used for Wi-Fi signals or recharging stations. So we have absolutely unlimited possibilities to work with smart lighting, and it's up to the investor to improve the quality of life in the city.



Catalogue Smart Street Light
elkoep.com/download



Configurator
www.chytrysloup.elkoep.com



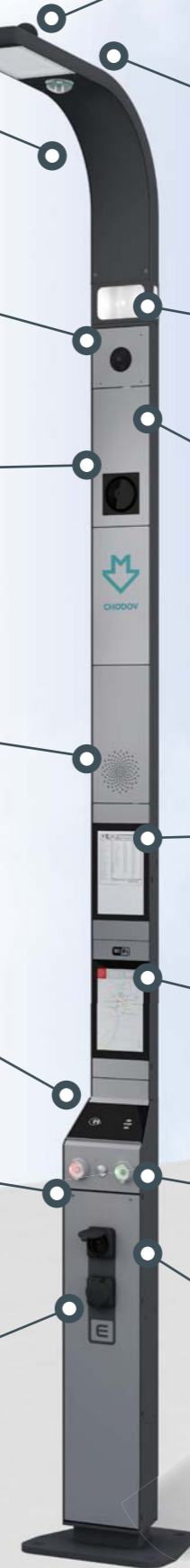
Charger



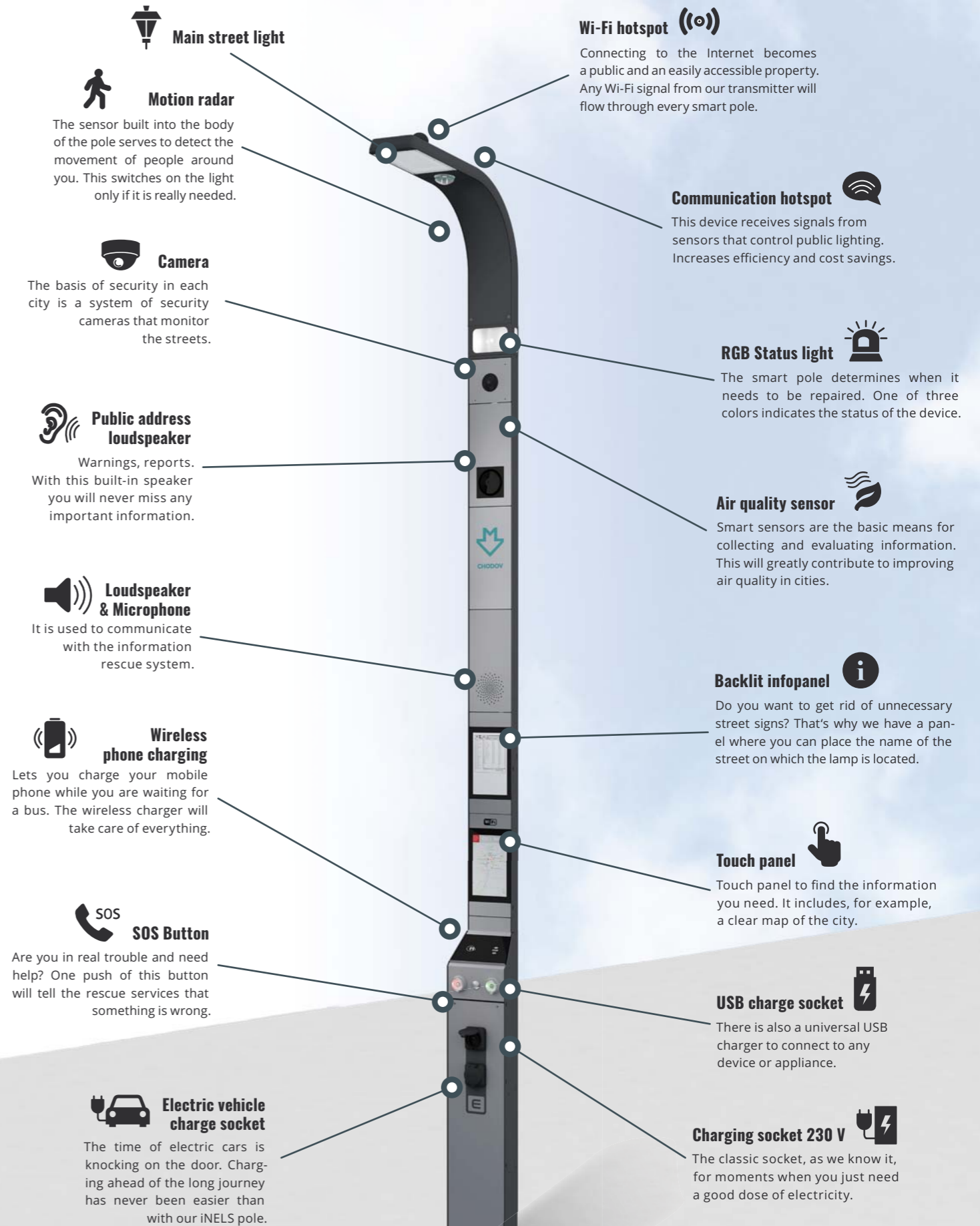
Kiosk



City



Street



SSL controllers

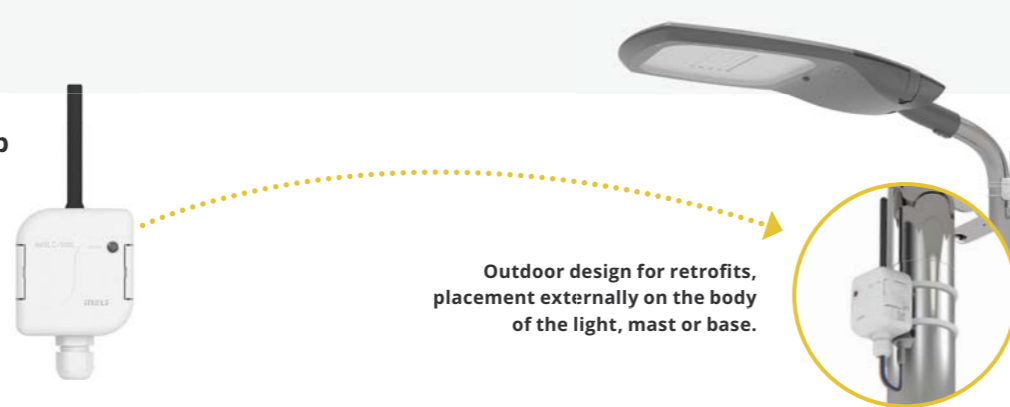
To make smart lighting work properly, the light fitting must be equipped with a communication module. Modules differ in design, installation, and communication network, but their function is always the same. For communication, wireless LPWAN networks, especially **LoRa** and **NB-IoT**, should be used. They allow **two-way** communication - they

can not only control but also receive information from the light fittings. This is conditional on the availability of a given network with sufficient signal at the point where the light fittings are located. Signal quality can be determined by a special signal strength indicator.

RETROFIT MODUL

AirSLC-100L | AirSLC-100Nb

- Outputs: 0(1) - 10V DC DALI
- Outdoor enclosures with IP65
- Power supply: 110 - 230 V AC
- Dimensions:
 - 182 x 62 x 34 with antenna
 - 96 x 62 x 34 without antenna
- Communication: LoRa/NB-IoT
- Antenna: included



PLUG-IN (socket)

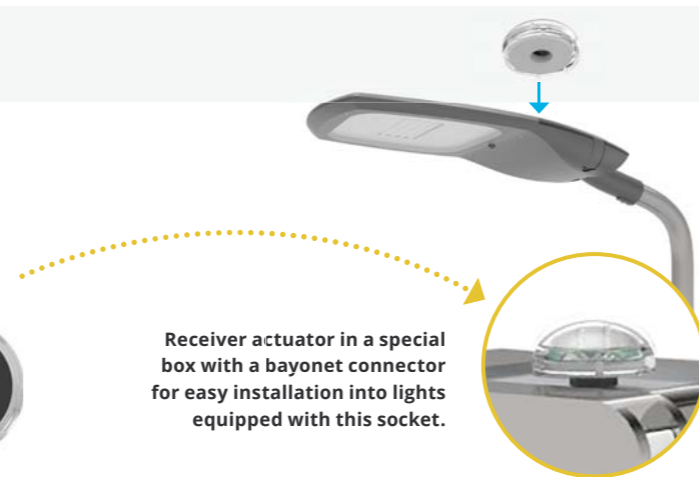
AirSLC-100/NEMA

- Power supply: AC 100-230 V AC
- Output: 0(1)-10 V
- Communication: LoRa/NB-IoT
- Dimensions: 84 x 98 mm



AirSLC-100/LWES

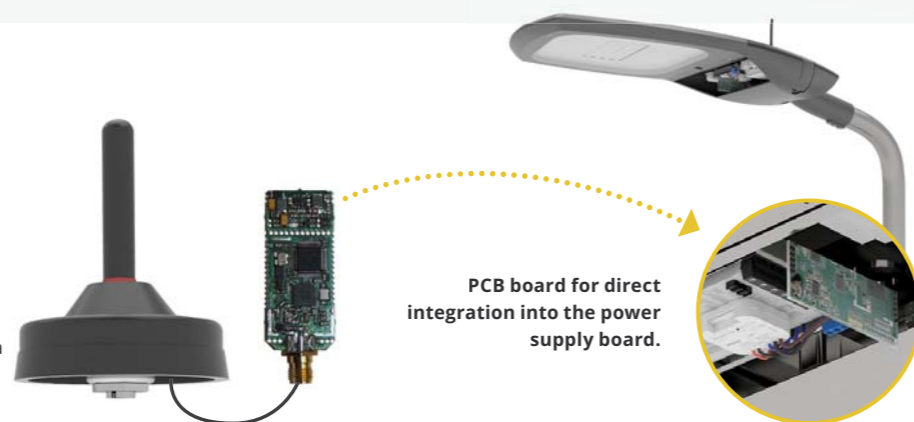
- Power supply: 12-24 V DC
- Output: 0(1)-10 V DALI
- Communication: LoRa/NB-IoT
- Dimensions: ø 80 x 34 mm



OEM (built-in) - Embedded

LoRaWAN Modul OEM

- Connection: soldering pins
- Power supply: 5-24VDC, after breaking source parts only stabilized 3V3 / 140mAh
- Communication:
 - SPI 1x
 - USART 1x
 - Analog pins 8x (12-bit)
 - I / O digital pins 29x
- Dimensions:
 - 19,5 x 46,1 (33,8)* x 4 mm with ULF connector
 - 119,5 x 57 (44,7)* x 7 mm with SMA connector
 - 19,5 x 46,1 (33,8)* x 21 mm with internal antenna
 - * dimension after breaking the source section
- Gain: + 2,12 dB
- Communication: LoRa 868Mhz
- Antenna: external ULF or SMA connector, internal bent parts of the product



Smart street lighting platform

We believe that each Smart city should have only one control platform. It allows not only the collection and evaluation of data, but also the control of all the elements of the smart city. That's why with our smart lighting, you'll also get a light control module.

All smart street lights are connected to Smart city platform wirelessly. It gives you an easy way how to control and monitor all the lights in the city.

• USER FRIENDLY PLATFORM

on your computer or laptop

• EFFECTIVE REPORTING TOOLS

Graphs, data and saving analysis

• PREDEFINED SETTINGS

for easy and smart lighting and energy savings

• ADVANCED DIMMING

scheduled dimming

• SECURITY

with proper and safe authorization

• GPS DETECTION

faster way how to find a defect on the lights

• COST REDUCTIONS

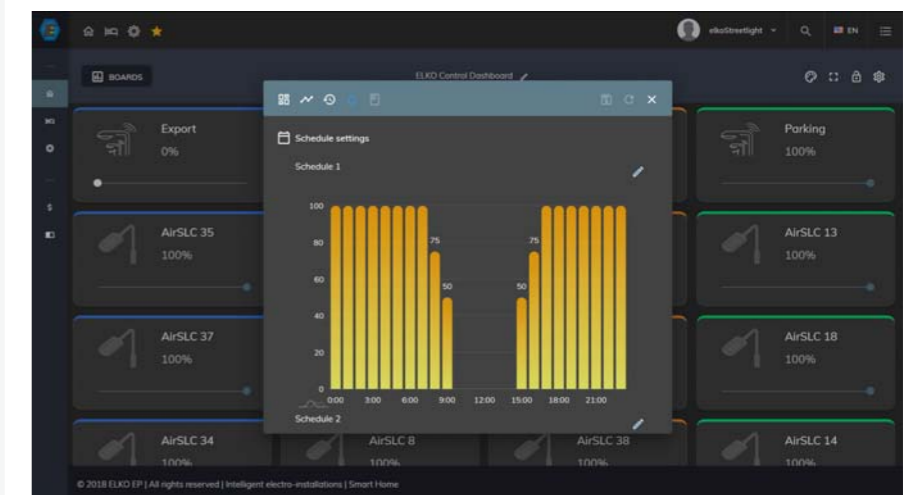
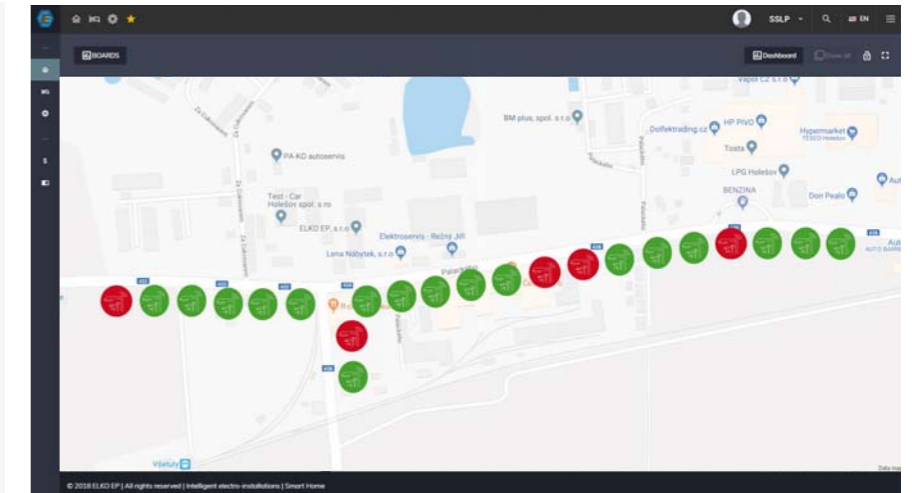
with new working management

• READY FOR IoT

it is connectively ready

• WIRELESS SOLUTION

easy to upgrade whenever you want



✓ System cooperation:

- changes in intensity occurrences
- plan switching events occurrences
- adding / changing / removing the lamp occurrences
- emergency situations
- 3rd parties commands

🔄 Reporting:

- consumption reporting
- operation reporting
- disorder reporting
- service state reporting

⊕ Function:

- displayed on the map according to the light
- monitoring according to operating status
- individual and group control
- graphs and statistics according to lighting, consumption, lifetime

Building management system

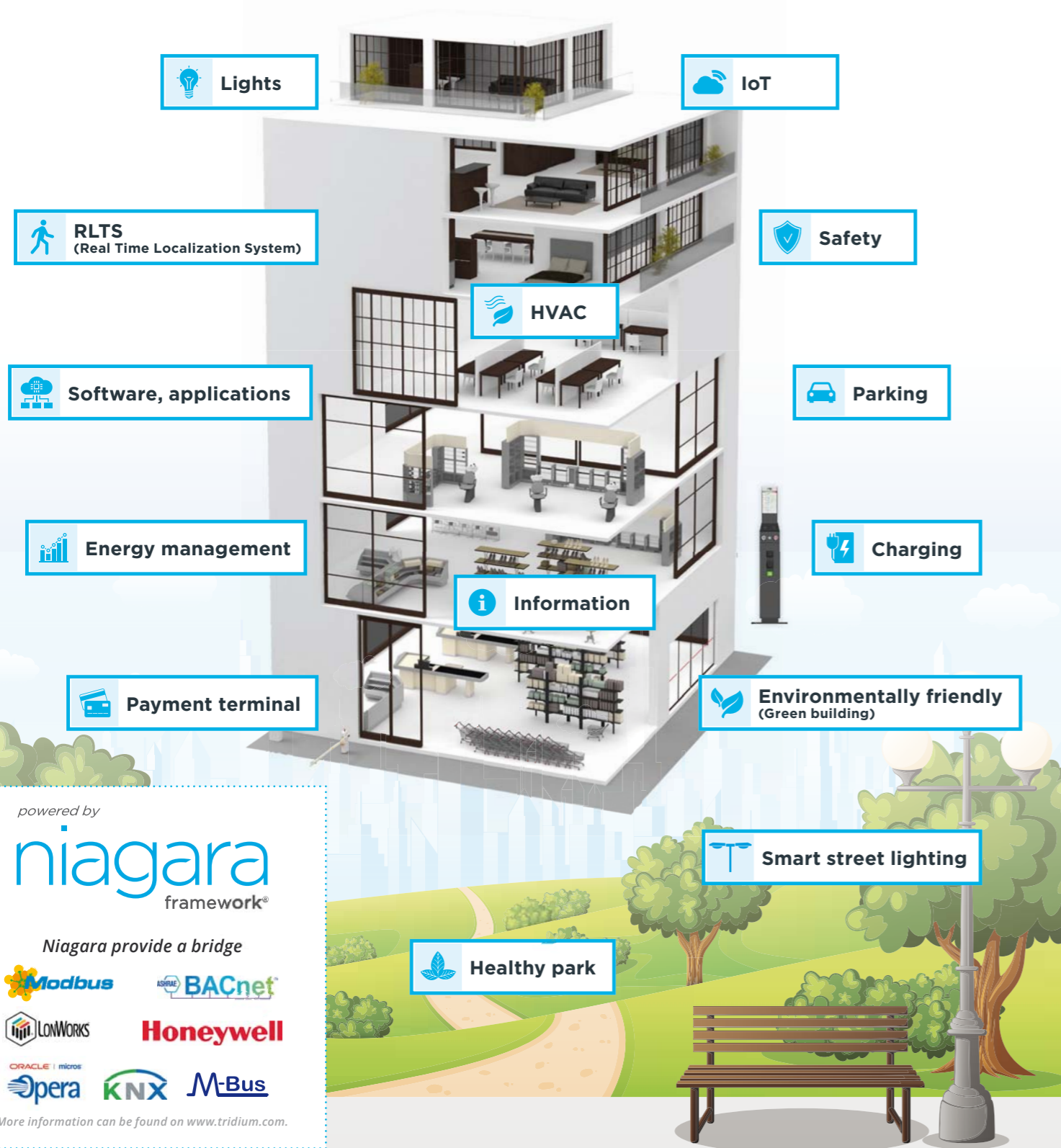
Catalogue Intelligent electro-installation:
elkoep.com/download



BMS is a software environment in which it is possible to create mutual relations, visualize the activity of buildings technologies, collect statistical data and evaluate them. In this way you can find optimal building settings to ensure user comfort while increasing the energy performance of the building. It integrates all the technologies in the building and visualizes them for the operators and administrators.

iNELS is fully compatible with BMS (Building Management System) Niagara platform, which provides a convenient and efficient user interface. There are controllers for the actual control of all processes in the building. Supervisor licenses for the deployment on the operator's computer are used to supervise the operation of the system, receiving alarms and notifications and evaluation of historical data and graphs.

powered by
niagara
framework®



powered by
niagara
framework®

Niagara provide a bridge



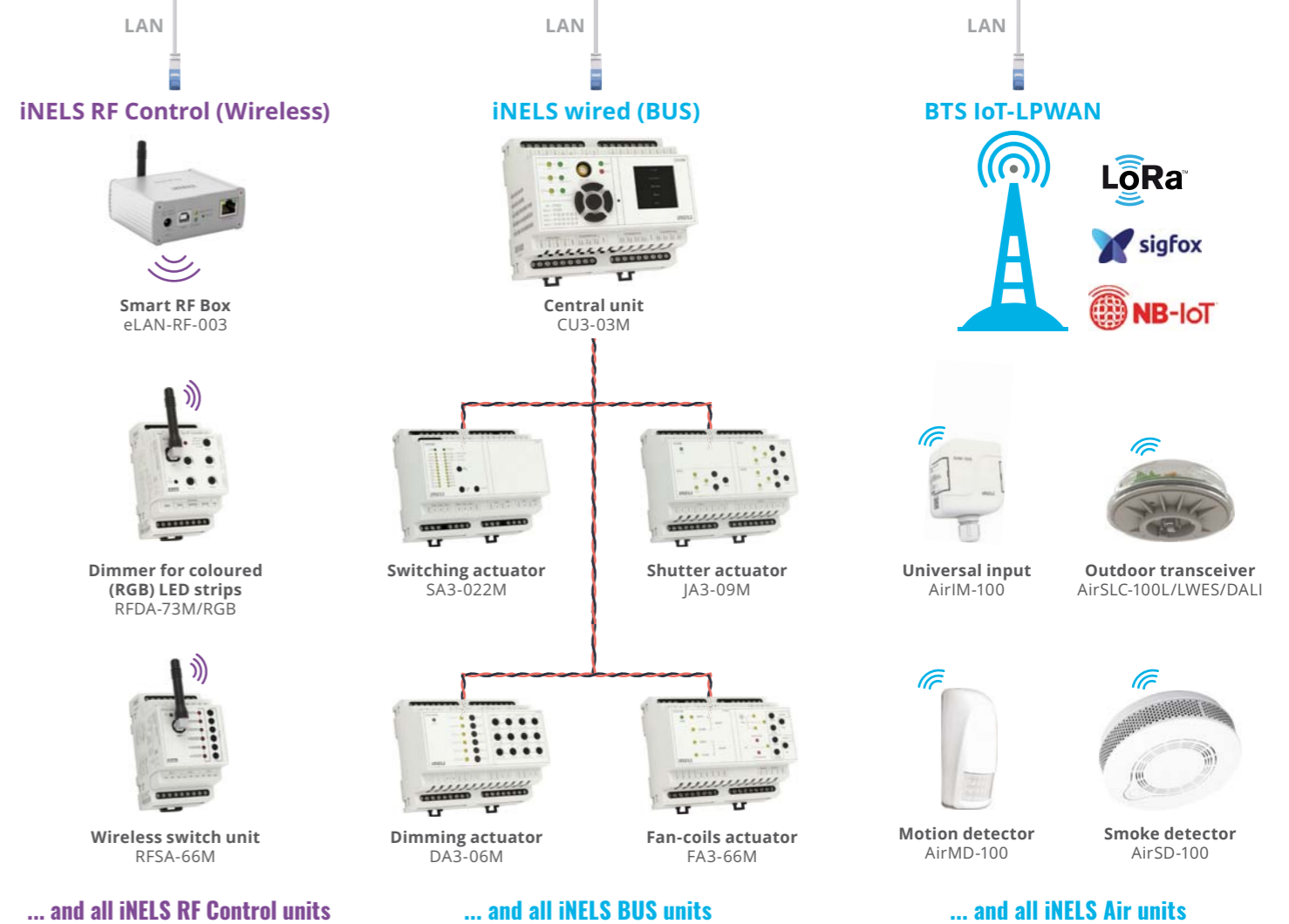
More information can be found on www.tridium.com.

JACE-8000

The JACE 8000 is a compact, embedded IoT controller and server platform for connecting multiple and diverse devices and sub-systems.



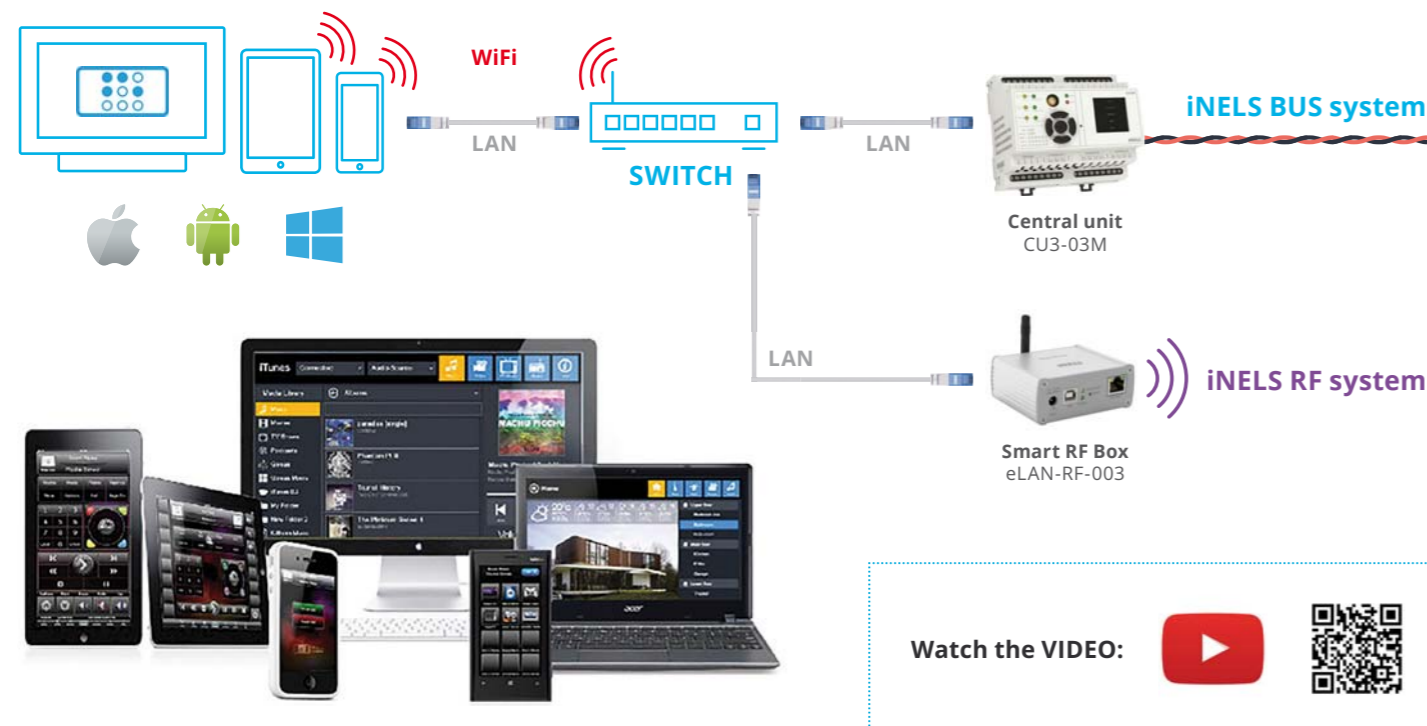
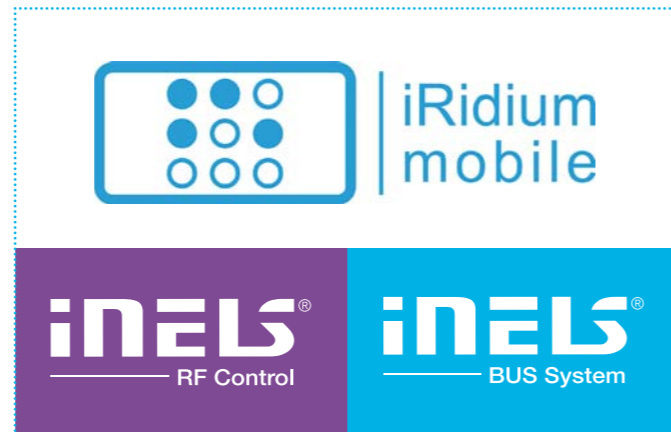
BMS Building management system



iNELS BUS for iRidium mobile

iRidium software solution enables controlling of the iNELS home automation system as well as other 3rd parties devices (audio/video devices, media servers with full two way communication). iRidium offers a set of tools, scripts and customizable interfaces which enables the end user to create their own unique face of the application which is able to send and receive variable status data via EPSNET protocol. It is possible to control and monitor the status of individual luminaires, blinds, heating, etc. on devices such as iPad, iPhone, Mac, Android or Windows.

Your end customer gets a complete solution for controlling all devices in one application.



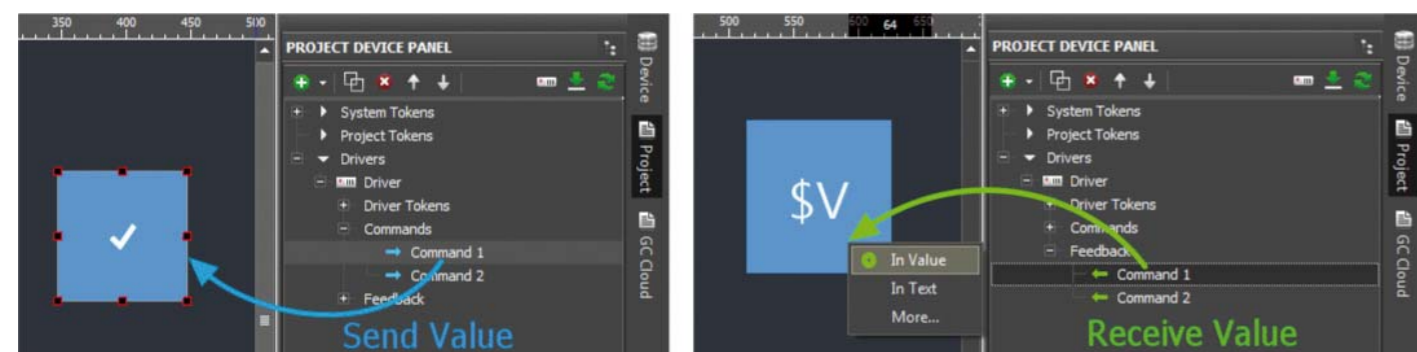
Watch the VIDEO:



Commands & Feedbacks

Commands and feedback channels have to be assigned to graphic items to control equipment:

- A command is assigned to a graphic item.
- Feedback channel is assigned to a graphic item to display the variable state.



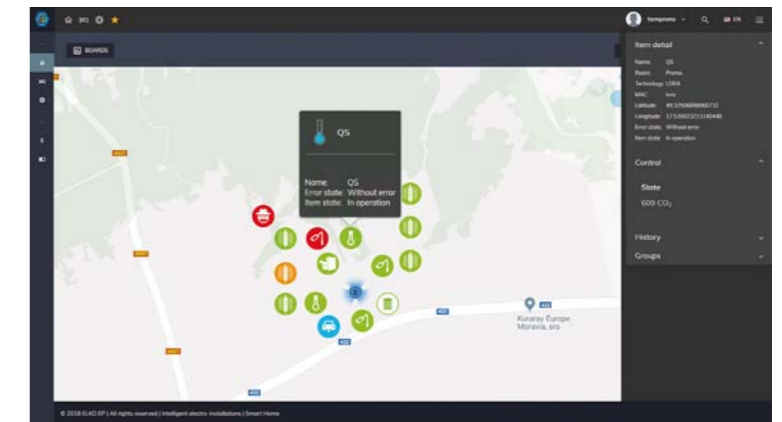
ELKO Cloud

Smart Farm

The overview map (on Google Maps) is ideal for farmers to view the sensors in the desired locations. The colour determines the current status (as a traffic light: red, orange, green) so that the critical state and location can be detected at a glance. After you place a device in a pop-up, the status window appears, and a side widget is displayed after the click, which displays the detailed parameters. Zoom-out/in maps group devices into groups; the number specifies the number of hidden sensors in the group.



More in the catalogue:
Agriculture



Energy management

The Cloud can display measured values in a given interval in dynamic charts. The chart axes can be set as needed. Instantaneous power consumption is displayed in tiles, measured units and converted to currency. Directly on the chart a threshold can be set for each measured value and the action to be taken in the case of excess (overvalue) or shortfall (undervalue). You can send an SMS notification, email or directly instruct the switch actuator (on the same network or backend supported iNELS RF & BUS actuators).



More in the catalogue:
Energy management



Weather

On the Weather tab you can get the weather forecast for a given location (from the OpenWeather portal) as well as the currently measured values from the multi-weather station AirMETEO (temperature, humidity, UV sensor, light sensor, wind speed and vane, rain collector). These values are transferred using the converter to the backend of the server. Above each value, you can once again set the threshold and call for a notification or action. This is ideally usable in the various fields of Agriculture.



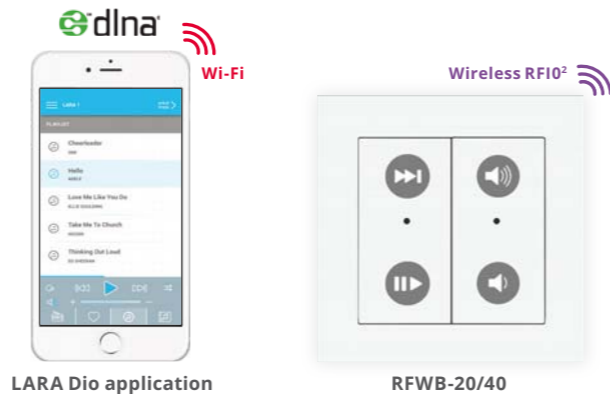
Hospitality Solution

Catalogue Hospitality solution:
elkoep.com/download



Control your LARA by side wireless controller

Integrated wireless modul allows you control LARA by wireless iNELS RF Control – RFWB-20/40 or Keychain. Its usefull while you are in the bath, swimming pool, unable people on the bed or only if you need „bigger buttons“ even you don't like APP or touch pads on LARA is too small for you...

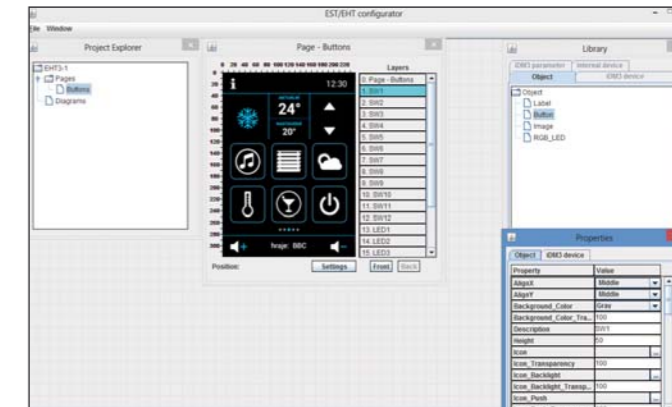


LARA Dio application

RFWB-20/40

Customize your EHT screen

Customize ELKO Hotel Touch unit directly in iDM3 software. New EHT3 configurator allows optional settings of all the screens on the device. For each touch panel is possible to set the screen, key matrix, types of controlled devices and the icon for as you want. Everything at customer's request.



iNELS Digital key

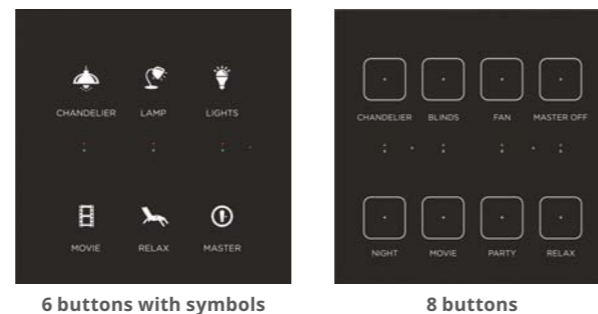
RFID

Unlock your Hotel or AIRBNB room via mobile

Inels Digital Key app provide you now possibility of open your door via your smartphone with NFC. App emulate RFID card – then you can use for door unlocking both way: card and/or phone. Main feature is entrance your room without reception check-in (on-line checked and go to the room directly).

Glass Swith Button with two options

You can choose from the 2 options of glass panels: 2, 4 and 6 buttons with illuminated symbols and optional text or 4, 6 or 8 buttons without symbols. Both are available in Black and White glass colour with acoustic and vibration feedback while pressing.



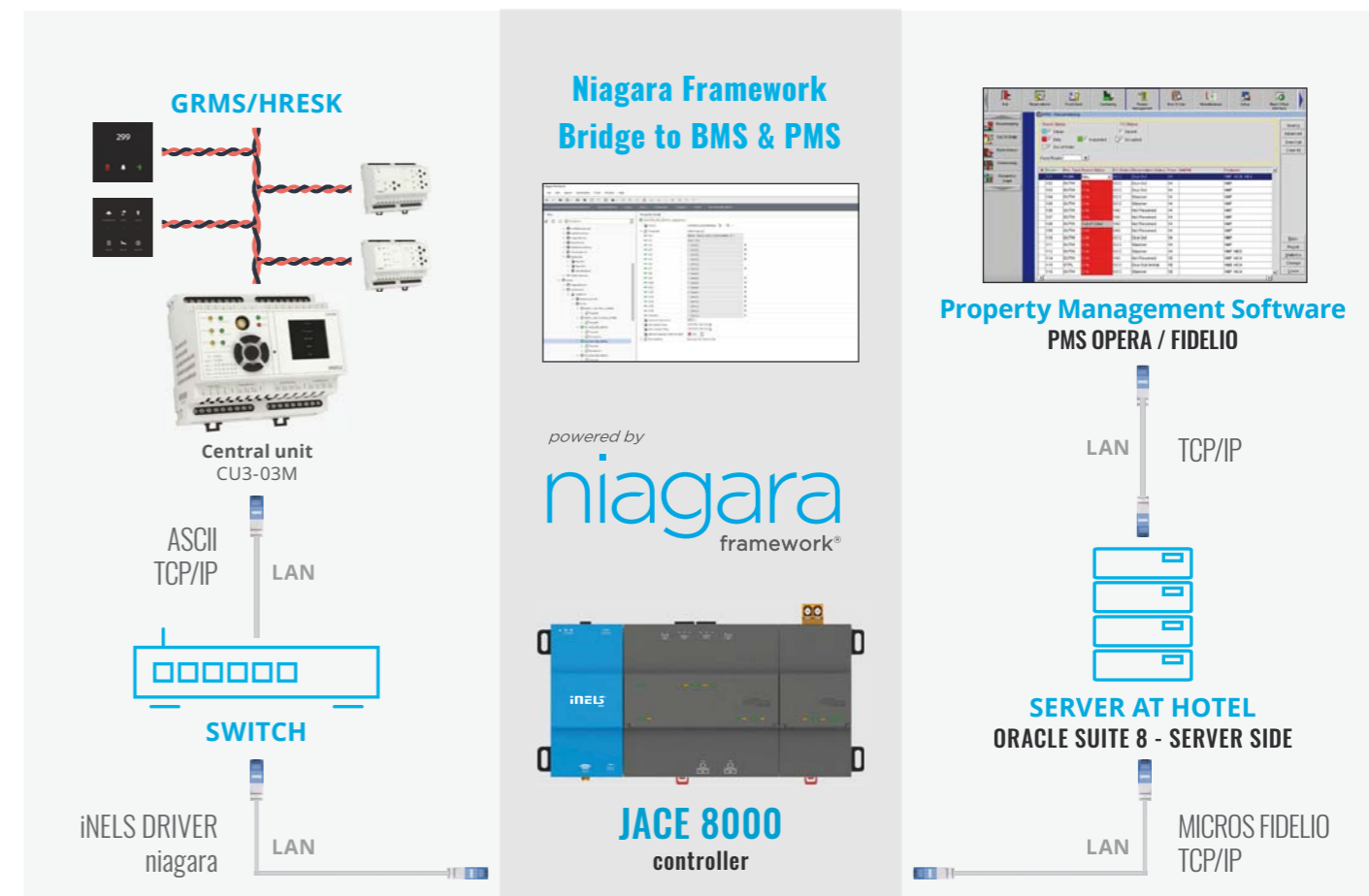
6 buttons with symbols

8 buttons



Control your room via TV

App for Samsung Hospitality TV allow you control main features of room: lights, shutters, temperature, make up room, don't disturb – direct way on flooplan or dedicated button of TV remote controller.



Niagara Framework = bridge to BMS & PMS

Building management system Niagara (to which iNELS GRMS & HRESK can be integrated) provides you a possibility to be controlled using Property Management software solution provided by Oracle (Opera or Fidelio) as other communication protocols such as BACnet, M-Bus, ModBus, LONWORKS, KNX, etc. All the control including history ((graphical visualization),

alarms, access to database and other features can be visualized by HTML5 or you can use Microsf Fidelio IP driver to stream data directly to PMS Opera/Fidelio server communicating with client running at reception. All the configuration and programming can be handled in Niagara 4 Developer (Workbench).



**Hotel Guest Room
Controller Bundle**
CU3-04M

- Control unit is designed to enable management of all technology that may be in guest rooms, it is designed to provide efficiency comfort while running with maximum efficiency throughout the building.
- By connecting to BMS, you can:**
- Monitor all states of all system elements from one location.
- Connect iNELS with other protocols.
- Create logic functions between individual control units.
- Optimize the performance of HVAC systems



External Master
Master MI3-02M / ETH

- External master MI3-02M / ETH allows expansion of the number of connected peripheral units to the central unit iNELS3 CU3-01M, CU3-02M CU3-03M or two further branches of installation BUS (i.e. about 2 x 32 peripheral units).
- Part of the External Master MI3-02M / ETH is also a bus separator (BPS3), which supplies the two BUS connected to this master with 2x1A current.
- The unit can communicate via the EBM system bus with the CU3-01M, CU3-02M or CU3-03M (ETH) Ethernet connection.



Shutter actuator (18 channels)
JA3-018M

- Is an unit designed for control of roller shutters, blinds, awnings, garage doors, entrance gates, etc.
- Controls electric motors that operate in two directions and have a built-in limit switch.
- Output: 9x switch 4 A / AC15.
- Voltage 250 V AC, 24 V DC.



**LoRa Gateway
with LoRa Network Server**
GTW-LNS

- Device for creating your own LoRa network.
- The LoRa Gateway Server can be assigned to thousands of IoT terminal devices communicating on this network.
- The LoRa Gateway has the LoRa receiver / transmitter function and the server, receives / transmits messages Lora and processes it on your own server.
- The antenna provides radiation in all directions.
- The gateway is also designed for outdoor use.



Waste bin sensor
AirWS-100S/100L/100NB

- The detector informs about the full volume condition of the container, the waste container, may trigger a requirement to empty it. It also informs you of the actual temperature in the scanning area.
- It has a built-in sensor for opening the lid or for tipping over the waste container.
- With wireless technology and its compactness, the device can be used in a variety of applications.
- The front panel LEDs indicate the status of each output.



Flood detector
AirSF-100S/100L/100NB

- Is an expansion module for the CU3-04M central unit, designed primarily for controlling hotel rooms.
- Equipped with 22 relay outputs (of which 1x changeover contact – roller blinds, blinds).
- Switching lighting and socket circuits (6A and 10A relay) with common potential at the "COMx" terminal.
- The front panel LEDs indicate the status of each output.



Dimming actuator (6 channels)
DA3-06M

- Is a universal dimmer six-channel actuator to control the brightness of dimmable ESL, LED and RLC light sources with 230V supply.
- Maximum possible load is 150 VA for each channel.
- The actuator is equipped with an electronic overcurrent and thermal protection that shuts off the output during overload, short circuit, overheating.
- You can manually control the output by using the front panel control buttons.



Fan-Coils Control actuator
FA3-612M

- Is a unit (actuator) designed to control fan coil units using analogue / digital inputs and analog / relay outputs.
- Analog inputs for temperature, voltage or current measurement.
- Buttons for closing / opening the valve, fan and relay for heating.
- The front panel LEDs indicate the status of each output.



Switching actuator (22 fold)
SA3-022M

- Is an expansion module for the CU3-04M central unit, designed primarily for controlling hotel rooms.
- Equipped with 22 relay outputs (of which 1x changeover contact – roller blinds, blinds).
- Switching lighting and socket circuits (6A and 10A relay) with common potential at the "COMx" terminal.
- The front panel LEDs indicate the status of each output.



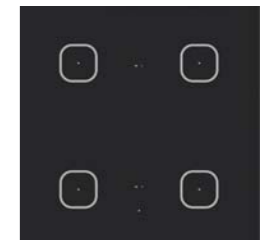
Switch unit for shutters
RFJA-32B

- Advantage is connection with existing shutter switch in installation. You can combine traditional control with wireless.
- Wireless switching element for blinds, barriers, gates, curtains
- Short press of controller - enables blind slats tilting, long press - pull up (or let down) the shutters to the end position.
- Switching unit can be controlled by up to 25 channels (1 channel represents one button on the controller).



Wireless switch unit
RFSAI-62B

- Switching unit with 2 output channels serves to control home appliances and lighting circuits.
- Switching unit can be controlled by up to 25 channels (1 channel represents one button on the controller).
- It is possible to combine with Controllers or System units iNELS RF Control.
- **Function:** Button, pulsion relay, time function delayed start and return with time settings 2s – 60 min.



Wireless dimmer switch
RFWD-71

- Wireless glass designed switch with integrated universal dimming component which serves to regulate light sources:
- R** – classic lamps
- L** – halogen lamps with wound transformer
- C** – halogen lamps with electronic transformer
- ESL** – dimmable energy efficient fluorescent lamps
- LED** – LED light sources (230 V)
- 4 channel switch version allows you to control the integrated dimmer as well as other components of the installation.

RELAYS

NEW PRODUCTS

Catalogue Modular electronic devices:
elkoep.com/download



Digital relay CRM-100

- The brand new multifunction digital relay CRM-100, which belongs to the time relays category, finds its use in controlling the diverse devices of your household.
- 17 functions - 4 time functions controlled by the supply voltage and 13 functions controlled by the control contact.
- Thanks to the digital display and settings you have the time set without any mechanical tolerance.
- Time range 0.1 s - 999 hours.



Digital switch timer SHT-7

- Digital switch timer with day and year program and setting via smartphone supporting NFC transfer.
- Timer switch - switching based on real time in day and week mode.
- Offline setting of programs in the application.
- Backup / insertion into the phone memory for transfer to the next timer switch.
- Two-channel design, both channels are programmable independently of the other



TOP PRODUCT

Multifunction time relay CRM-91H

- Multifunction time relay can be used for electrical appliances, control of lights, heating, motors, pumps and fans
- 10 functions, 10 time ranges, 1x output 16A changeover/SPDT, multivoltage or 230V supply
- 5 time functions controlled by supply voltage
- 4 time functions controlled by control input
- 1 function of latching relay

New range of monitoring relays

You cannot simply stop progress, so even we in ELKO EP have to move forward constantly with our products. We are now proud to introduce to you more than 30 new types of monitoring relays. These are an indispensable part of each industrial or commercial project and even in every household.

7 reasons, why you should chose monitoring relays from ELKO EP:

- Brand new improved design
- Focus on industrial applications
- Bigger range of monitored current / voltage relays
- Increased measurement accuracy thanks to the newest components. 2%
- Suitable for 50 / 60 Hz networks
- Extended power supply 24-240V AC / DC
- Auxiliary power supply

Catalogue monitoring:
elkoep.com/download



New range of monitoring relays covers control of:

- Voltage relays
- Current relays
- Power factor relays
- Frequency relays
- Reverse power relays
- Speed sensing
- Synchro-check relays
- Synchro check.
- Ground fault relays
- Level switches

APPS FOR ALL... iNELS Home Control



iNELS BUS System (bus electro installation)					iNELS RF Control (wireless electro installation)			
Android	iOS	TIZEN*	Android	iOS	TIZEN*	SAMSUNG Gear S2/S3		
Tablet	Phone	iPad	iPhone	Smart TV	Smartwatch			
iHC-TA	iHC-MA	iHC-TI	iHC-MI	iSHC	iHC-MAIRF	iHC-MIIRF	iHC-WTRF	

	BUS & RF	Lighting	Blinds	Socket	Garage doors, gates	RGB bulbs, LED strips	Scenes	Heating	Cameras	Air-conditioning	Recuperation	Home appliances (MIELE)	Weather station	Measurement and visualization of energy	Door communicator and Intercom	A/V appliances
Third Parties Integration	Lighting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Blinds	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Socket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Garage doors, gates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	RGB bulbs, LED strips	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Scenes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Heating	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Third Parties Integration	Cameras	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
	Air-conditioning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗
	Recuperation	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗
	Home appliances (MIELE)	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗
	Weather station	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗
	Measurement and visualization of energy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
	Door communicator and Intercom	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
A/V appliances	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	

✓ Supported ✗ Not supported

iNELS Home Control applications are FREE to download at or and are supported by Android OS 4.2 or later and iOS8 or later.

References

Brochure Selection of References:
elkoep.com/download



Kempinski Hotel Almaty / Kazakhstan

- 5-star hotel in Almaty Kazakhstan
- lights are controlled in public areas
- more than 15 000 lighting are control through the DALI protocol
- setup scenes



Marriott Marquis Doha / Qatar

- 5-star hotel in the Doha City center
- lighting control, HVAC control,
- master switch OFF
- 44 floors, 397 rooms, 182 suites, 18 meeting rooms



Jamie's Italian Restaurant Budapest / Hungary

- iNELS BUS System is controlling lighting and terrace-cooling/heating in the restaurant
- additional switched lighting circuits are controlled by 5 actuators



Meydan Dubai / UAE

- lighting control
- crystal chandelier
- starry night sky control
- audio/video system



Alexandrovskiy Odessa / Ukraine

- 25 rooms with fully automation and dispatching
- integration with Samsung central conditioning



Building XENEX Žilina / Slovakia

- lighting control
- heating control, HVAC
- access control system, cameras, alarm



Best Western Premier Brno / Czech Republic

- 4-star Hotel Internacional in Brno
- lighting scenes in the restaurant, reception, wine shop and exterior
- app available for any guest



Three sons and daughter Skhidnicya / Ukraine

- 5-star hotel
- 179 fully automated rooms powered by iNELS
- automation of lighting, heating, cardreaders
- there are SA3-012M, IM3-140M and WSB3-40 in every room



Living Showroom Prague / Czech Republic

- designed residential showroom
- control units are part of the interior
- stage connection with projection and visitor needs



Magyar State Opera Budapest / Hungary

- Every additional lighting source is also controlled by iNELS system. The devices here are controlled by RF Touch.
- For switching the RFS-11B and RFS-66M is used.



Rocks Hotel & Casino Kyrenia / Cyprus


- 5-star hotel
- located close to historical city Kyrenia
- the lights are controlled by iNELS system via light panel, USB socket, glass thermostats



Lord's Palace Kyrenia / Cyprus

- 5-star hotel
- light control in the restaurant, conference hall, parking, wellness and corridors

References

Brochure Selection of References:
elkoep.com/download 



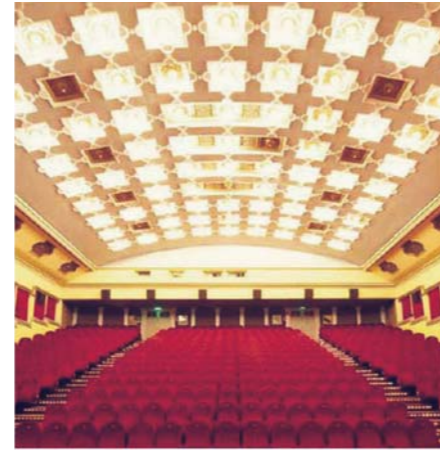
Buddha Palace Bhutan, India

- lighting control of historical interior sections
- scenes light according to visitor presence
- security system



Hyundai Nošovice, Czech Republic

- 736 pcs LED High Bay within retrofitted lighting
- central control DALI ballast via EDMC
- control of each zone from the touch panel via app



Cinema Corvin Budapest / Hungary

- 6 movie theaters
- DALI control LED matrix (800 lighting fixtures)
- projection scenes
- heating and A/C control



Hotel Merit Premium Kyrenia, Cyprus

- all rooms are equipped with smart electro-installation
- this is controlled by RFSA units that switch set modes
- when designing a system, the emphasis was placed on the central function (MASTER switch)



Showroom Smart Light Bratislava, Slovakia

- the entire building, including warehouse and exterior spaces, is controlled by iNELS intelligent electro-installation
- iNELS system controls:
 - 15 switching light circuits,
 - 5 dimmable light circuits,
 - LED RGB light circuits, etc.



Shop Dior Prague / Czech Republic

- hardware: RF Control
- channel multifunction dimming actuator RFDA-71B
- single channel actuator with analog output RFDAC-71B
- RF remote control Pilot

www.inels.com

FACTS AND STATS & ELKO EP Holding



16
BRANCHES
OVER THE WORLD

70
EXPORTING
COUNTRIES

240
EMPLOYEES

5 000
iNELS INSTALLATION

12 000 000
MANUFACTURED PRODUCTS

