Hospitality Solution for new & existing hotels

**HOTEL ROOM ENERGY SAVING KIT**
**WIRELESS RETROFIT**

EXISTING hotel room

**GUEST ROOM MANAGEMENT SYSTEM**
**BUS INSTALLATION**

NEW hotel room

www.inels.com/hospitality
Hotel

You’ll feel right at home

iNELS solution for guest room management is designed to help create an environment that allows guests to feel as if they were at home. The hotel room always welcomes guests with a pleasant temperature and the controls offer a very simple to use option for creating the atmosphere currently wished for.

Every detail contributes to the overall satisfaction rating and the first element, with which the host comes into contact with, is the RFID card reader for entry into the room offered in an attractive glass design. Readers come in a sleek black or white design. To set the desired atmosphere in the room a touch panel is available with a very intuitive user interface for the control of temperature, lighting, shading, or setting the music scenes. Scenes can also be activated automatically upon entering the room. The iNELS solution is the subject of guest comfort, but it also strives for the effective management of all technologies, which significantly contributes to saving energy consumption.

Check In / Out

Thanks to integration into a hotel system, it is possible to create a light scene in the room when a guest registers.

Master Off

When the guest then leaves, the system automatically disconnects all electrical appliances and saves on both heating and cooling costs.

Do Not Disturb

Guests can very easily signal if they want the room cleaned, or do not want to be disturbed.

Comfort

The combination of automatic illumination based on motion and central control of the room.

Design

Through their timeless design, the control unit with display or glass touch unit will complement any interior.

Versatility

The system is suitable for installing in large and small lodging facilities alike.
### NEW room - GRMS

**Comfort**
- "master OFF" button – one push when leaving room or falling asleep to switch off all lights.
- smooth dimming, brightness, adjustment as needed, scene settings (sleep, wake-up, work).
- Music & radio with the LARA switch – music, bathroom distribution.
- the ability to control and cast music from a smartphone application.
- signalling: "Do Not Disturb" and "Make Up Room".

**Savings**
- fixed temperature limits – min. (for air-conditioning) max. (for heating).
- Window opening suspends A/C & heating.
- dimming and master off, occupancy sensor.
- LED light sources = savings of 30%.
- smart card holder – works only with the correct card – not everyone’s!

**Design**
- wide range of colours and frames.
- glass variants of controllers in different colours.
- customization: icons, logos...
- configurable bedside panel as required.

**Safety**
- occupancy sensor detects the presence of person(s).
- the ability to control and supervise from reception.
- the doorbell bell increases the guest’s safety.

**Flexibility**
- the option to move controls in a variable way – even when not in the place of installation: at the bed, behind the door,...
- the possibility of additional changes or extensions.

#### BUS installation

- Control
  - standard controllers.
  - frames from natural materials (wood, glass, metal, stone).
  - glass controllers.
  - touch panel (RF Touch).
  - smartphone application.

- Audio/Video
  - LARA – music & radio player with intercom.
  - TV control via smartphone application (LAN cable or Wi-Fi).

- Integration
  - GRMS (MUR, DND, Laundry).
  - connection with BMS (Building Management System).
  - connection with PMS (Property Management System).
  - connection with door locks systems.

- Others
  - variability – change controllers place.
  - navigation for Hotel guests.

#### WIRELESS installation

- Control
  - standard controllers.
  - frames from natural materials (wood, glass, metal, stone).
  - glass controllers.
  - touch panel (RF Touch).
  - smartphone application (LAN cable for every room).

- Audio/Video
  - LARA – music & radio player with intercom (LAN cable or Wi-Fi).
  - TV control via application (must be used eLAN IR).

- Integration
  - GRMS (MUR, DND, Laundry).
  - connection with BMS (Building Management System).
  - connection with PMS (Property Management System).
  - connection with door locks systems.

- Others
  - variability – change controllers place.
  - navigation for Hotel guests.

### EXISTING room - RETROFIT

**Comfort**
- "master OFF" button – one push when leaving room or falling asleep to switch off all lights.
- smooth dimming, brightness, adjustment as needed, scene settings (sleep, wake-up, work).
- Music & radio with the LARA switch – music, bathroom distribution.
- the ability to control and cast music from a smartphone application.
- signalling: "Do Not Disturb" and "Make Up Room".

**Savings**
- fixed temperature limits – min. (For air-conditioning) max. (for heating).
- Window opening suspends A/C & heating.
- dimming and master off, occupancy sensor.
- LED light sources = 30% saving, plus built-in dimmer inside bulb (2 in 1).

**Design**
- wide range of colours and frames.
- glass variants of controllers in different colours.
- variability – change controllers place.
- navigation for Hotel guests.

**Safety**
- occupancy sensor detects the presence of person(s).
- smoke detector – a fire or smoke from a cigarette.
- the doorbell bell increases the guest’s safety.

**Flexibility**
- the option to move controls in a variable way – even when not in the place of installation: at the bed, behind the door,...
- the possibility of additional changes or extensions.

### Integration

- GRMS (MUR, DND, Laundry).
- connection with BMS (Building Management System).
- connection with PMS (Property Management System).
- connection with door locks systems.

### Others

- variability – change controllers place.
- navigation for Hotel guests.
Common areas
- Automatic environment setup
- Effective lighting control

Outdoor areas
- Security and cameras control
- Garden watering

Hotel rooms
- Guest room management system
- Audio/Video distribution

Spa & Pool
- Technology control
- Security supervision

Fitness
- Access restriction in time period

Parking system
- Parking space availability navigation

Restaurants & Bars
- Bill transfer
- Ordering via App

Conference room
- Prebooking
- A/V control

Common areas
- Automatic environment setup
- Effective lighting control

Reception
Integrated with Property Management System...
iNELS solution for guest room management is designed to help create an environment that allows guests to feel as if they were at home. The hotel room always welcomes guests with a pleasant temperature and the controls offer a very simple to use option for creating the atmosphere which was currently wished for.

**Glass Touch Panel**

Luxury glass touch control in four versions with 2, 4, 6 and 10 buttons in various backlight colours is available in elegant glass design. Switches also sense the ambient lighting and offer a choice of symbols.

**Multifunctional Touch Panel**

Fully configurable 3.5” touch screen with TFT display in variety frames design. Allows the control of all iNELS Hospitality features including multimedia. Configurable allowing of making of personalised screens for control lights, shutters, HVAC, audio, video and TV.

**Glass Bedside Panel**

Important buttons for light, TV scenes, master switch and sockets, other sockets for equipment are available.

**Wall Group Controller**

For scene control (lighting, music, and projection), it is also possible to use flat wireless switches, which thanks to customizable printing offers clear control.

**Glass Room Thermoregulator**

Temperature glass controller for simple temperature setup. Fan and mode control. OLED display with actual and setup temperature value.

**Audio Player**

Provides many thousands of Internet radio channels from all over the world or share music from central storage. Integrated amplifier can feed compact loudspeakers, external ceiling or wall speakers.

**Glass Card Reader**

The RFID card reader is a great design for the entrance to the rooms which also features a bell signal the “Do Not Disturb” and “Make Up Room” signs and backlit room number.

**Smart Card Holder**

In-room smart card holder with RFID reader which detects correct card and eliminates fake cards.

**NEW room**

BUS/GRMS Solution
Multifunctional Touch Panel

Control whole room from one place

Fully configurable 3.5" touch screen with TFT display in variety frames design. Allows the control of all iNELS Hospitality features including multimedia. Fully configurable allowing the making of personalised screens for control lights, shutters, HVAC and audio.

Make up rooms, do not disturb and laundry buttons included. Variable choice from the many frame designs and subframes under LOGUS design (see page 37).

HVAC Control
Actual / Setup temperature, Temperature up / down, fan speed.

Multimedia
Radio and TV station; Music from storage or own source.

Light/Scenes
Lights ON / OFF, dimm, scenes, Master off.
Wide possibility of customization. Allowing the creation of bedside panels on request. Important buttons for light, TV scenes, master switch and sockets, other sockets for equipment are available.

Glass finish with more colours (including smoke and white), and international sockets as options.

Bedside Panel

Not reason to rise from bed

6 buttons with indicator
AC power socket
2x USB sockets

For more options & configuration see page 34-35
Control Panels

Wider range of room controllers in variable designs

Fully customisable controllers. Finished frames in glass or plastic. 2, 4, 6, 8 and 10 buttons version available. Symbols and logo engraving by laser.

Glass Switch Panel

GSP3-100/B

Luxury glass touch control with 10 buttons is available in elegant black and white. Switches also sense the ambient lighting and offer a choice of symbols.

Wall Switch Button

WSB3-20/WSB3-40

For scene control (lighting, music, and projection) it is also possible to use flat wireless switches, which thanks to customizable printing offers clear control.

Glass Switch Button

GSB3-60/5B

Customizable touch control solution for lighting control and other technologies in different scenarios e.g. reading books, relaxing, watching TV, Master Off.

Glass Switch Button

GSB3-80/B

Luxury glass touch control in three versions with four, six or eight buttons are available in elegant black and white. Switches also sense the ambient lighting.
With iNELS you have always more possibilities how to setup and control temperature in the room: digital thermostat, glass HVAC controller, App in smartphone, table or via TV.

Heating, ventilation & air-conditioning

Keep yourself comfortable

Glass Room Thermoregulator

GRT3-50/B

Temperature glass controller for simple temperature setup. Fan and mode control. OLED display with actual and setup temperature value.

Digital Room Thermoregulator

IDRT3-1

Digital wall temperature controller used to regulate the temperature in a room. Using the IDRT3-1, it is possible to correct the given heating/cooling circuit within a range of ±3, ±4 or ±5 °C.

Fan Coil Control Actuator

FA3-612M

Actuator is used to control fancoil’s units via an analog/digital inputs. Analog inputs are for temperature measurement, voltage or current. Connection is to installation BUS.
Music in all corners

iNELS option allows you to share radio and music in the bathroom as well as the main room. Source of songs in central NAS Server or your own device – via cable or Wi-Fi.

Radio & Music player

LARA

Provides thousands of Internet radio channels from all over the World or share music from central storage. Integrated amplifier can feed compact loudspeakers or external ceiling or wall speakers.

More info on lara.inels.com
Room control via TV

Everything you need in your hotel TV

TV programs, movies on demand, temperature level, lighting control, hotel bill, hotel activity offers – all these and more features can be controlled by you via hotel room TV.

Temperature control

Lights

Music

TV

Movie on demand

Room Control

Hotel managers can easily manage and arrange the channel mix for both analogue and digital channels without the need to adjust and edit channel lists by different TV systems. Channels can be reordered and renamed to the hotel’s preference with channel mapping.

My Channel/Multimedia

Enable guests to easily find and enjoy the programming of their choice without having to manually scroll through hundreds of TV channels. My Channel’s quick search function allows guests to find channels suited to their tastes, by country and genre.

Hospitality TV App

You can make your own song playlists, play radios or favorite movies. Via TV menu it is possible to control audiozones and the LARA music player.

20

21
Access control

Clever access under top security

iNELS Hospitality offer two ways for access to room and other hotel facilities.

First option is our own door entrance panel with in built card reader, bell button, make up room and don’t disturb indicators. Room number can be placed as well.

Second option is integrated VingCard (Assa Abloy) lockers which communicate wirelessly with hub and afterwards with iNELS Connection Server. This solution also provides information about locker activity to iNELS.

iNELS Digital Key

This smartphone app with a digital key (iDK) is another smart way how to unlock your room if you don’t have a card with you.

Glass Card Reader

The RFID card reader is a great design for the entrance to the rooms which also features a bell signal the “Do Not Disturb” and “Make Up Room” signs and backlighted room number. Thanks to the integrated relay it can control the door lock directly.

Smart Card Holder

In-room smart card holder with RFID reader which detects correct card and eliminates fake cards. Optional 3 buttons: “Do Not Disturb”, “Make Up Room” and “Master Off”. When card is inserted lights on the side changes from red to green.
iNELS enables management and control of each luminaire whether with your own the BUS, DALI or DMX.

Lamps can be controlled by time, human presence, the intensity of outdoor (natural) light or only as needed (areas) – all these control methods can be combined together. For monitoring you can use a camera system, IMM is possible to integrate resources for heating, air conditioning and recovery. iNELS also allows the measurement of energy, including monitoring of critical values and periodic reports.

Common areas

Total supervision for reliable service

Receptionists will appreciate the fast control and supervision via tablet or touch panel. More common areas should be visualized on multiple screens.
Glass Touch Controllers

- **Glass Switch Button (without symbols)**
  - GSB3-20/Y
  - GSB3-40/Y
  - GSB3-60/Y
  - Glass touch controllers with individual symbols
  - All versions are in the size of the module (94x94 mm)
  - Individual symbols can be illuminated in one of several colours
  - glass colour: white (W) or black (B)

- **Glass Switch Button (with symbols)**
  - GSB3-20/R
  - GSB3-40/R
  - GSB3-60/R
  - Glass touch controllers without symbols
  - All versions are in the size of the module (94x94 mm)
  - Vibration touch feedback
  - Acoustic touch feedback
  - Glass colour: white or black

- **Glass Touch Panel**
  - GSB3-100/R (black glass)
  - GSB3-100/W (white glass)
  - Glass Touch Panel GSB3-100 is part of a comprehensive iNELS series of units for the management of the hotel rooms and other areas
  - 10 touch buttons

- **Glass Room Thermoregulator**
  - GRT3-50/Y
  - GRT3-50/W
  - Display for showing the current room temperature
  - GRT3-50 is also suitable for controlling fan-coils
  - Thermoregulator is equipped with an integrated temperature sensor

- **Glass Bedside Panel 1 fold**
  - GBP3-60/B/RF
  - GBP3-60/W/RF
  - GBP3-60 panel is equipped with six customizable touch buttons
  - Control units for guest room management system

- **Glass Bedside Panel 2 fold**
  - GBP3-60/B/2F
  - GBP3-60/W/2F
  - GBP3-60 panel is equipped with six customizable touch buttons
  - Control units for guest room management system

- **Multifunctional Touch Panel**
  - EHT3
  - Touch screen panel with 3.5” display
  - Controls temperature, lighting, shading, scenes
  - LOGUS® design
  - Rated current 350 mA from BUS
  - Configurable screen from IOM

Access Control

- **Glass Card Reader**
  - GCR3-11/B
  - GCR3-11/W
  - The RFID card reader is a great design for the entrance to the rooms which also features a bell signal “Do Not Disturb” and “Make Up Room” signs.
  - Protocol: NFC

- **Smart Card Holder**
  - GCH3-31/B
  - GCH3-31/W
  - In-room card holder with RFID reader which detects correct card and eliminates fake cards.
  - Optional 3 buttons: “Do Not Disturb”, “Make Up Room” and “Master ON”

- **Wall Card Reader**
  - WMR3-21
  - RFID card reader 13.56 MHz
  - NFC ready
  - 2 push-buttons, LOGUS® design
  - Rated current 50 mA from BUS

- **Card Switch**
  - 90731 TBR
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.

Audio

- **Music Player**
  - LARA Radio
  - Plays the stream of internet radios and music from NAS or external source or DLNA
  - Equipped with an internal amplifier 2 x 10 W

- **LOGUS Speaker**
  - Into a frame
  - Dimensions (mm): 50.8
  - Maximum output: 10 W
  - Impedance: 8 Ω
  - Design: LOGUS®

- **Ceiling Speaker**
  - Into a suspended ceiling
  - Dimensions (mm): 127
  - Maximum output: 30 W
  - Impedance: 8 Ω
  - Colour: white

- **Wall Speaker**
  - On the wall
  - Dimensions (mm): 270 x 183 x 37
  - Maximum output: 15 W
  - Impedance: 8 Ω
  - Colour: white

Detectors

- **Occupancy sensor**
  - DMD3-1
  - Power: 27 V DC
  - Combined detector
  - Detects motion and luminousness
  - Temperature and humidity sensor

- **Motion Detector**
  - RFMD-100
  - Connected to RF
  - Detection angle 105°
  - Shot length 12 m (13.12 yd)
  - Wireless RFIO
  - Detects motion
**System Units**

- **Central Unit (CU3-03M)**
  - Basic element of the system
  - 2x BUS, 1x EBM BUS
  - 3x Ethernet 100 Mbps
  - 8x DIN GS
  - 4x DIN
  - 7x AIN

- **Guest Room Bundle (CU3-04M)**
  - 7x AIN
  - 4x DIN
  - 8x DIN GS
  - 3x Ethernet 100 Mbps
  - 1x BUS, 1x EBM BUS
  - Basic element of the system

**Switching Actuators**

- **2x Channels / DIN (SA3-02M)**
  - 2x changeover contacts 16 A / AC1
  - Switching voltage 250 V AC, 24 V DC
  - Controls sockets, shutters, lights, appliances etc.
  - Rated current 50 mA from BUS

- **4x Channels / DIN (SA3-04M)**
  - 4x changeover contacts 16 A / AC1
  - Switching voltage 250 V AC, 24 V DC
  - Controls sockets, shutters, lights, appliances etc.
  - Rated current 70 mA from BUS

- **6x Channels / DIN (SA3-06M)**
  - 6x changeover contacts 8 A / AC1
  - Switching voltage 250 V AC, 24 V DC
  - Controls thermostatic valves, lights, appliances etc.
  - Rated current 60 mA from BUS

- **12x Channels / DIN (SA3-012M)**
  - 12x NO contacts 8 A / AC1
  - Switching voltage 250 V AC, 30 V DC
  - Controls thermostatic valves, lights, appliances etc.
  - Rated current 20 mA / 250 V AC

**Dimming Actuators**

- **2x 400VA/R-L-C-LED (DA3-02M)**
  - 2-channel universal dimming actuator
  - Load type: LED, ESL, resistive, inductive, capacitive
  - Maximum load: 400 VA for each channel
  - Rated current 50 mA from BUS

- **2x 0(1)–10 V (LB3-02M)**
  - Two-channel universal dimming actuator for fluorescent lamps
  - Analog outputs automatically control relays
  - 24 V (0–10 V: 2x changeover contacts 16 A / AC1)
  - Rated current 60 mA from BUS

- **3x LED Current (DCO3-33M)**
  - Three-channel universal dimming actuator for LED controlled by variable current
  - Dimming load 12–24 V DC
  - Controlled via BUS, DALI or DMX
  - Rated current 350 mA from BUS

- **6x 150 VA (DA3-06M)**
  - Six-channel universal dimming actuator
  - Load type: LED, ESL, resistive, inductive, capacitive
  - Maximum load: 150 VA for each channel
  - Rated current 50 mA from BUS

**Fan-Coil Control Actuator (FA3-01M)**

- Analog outputs: 0–10 V
- Connection to BUS
- Analog inputs for temperature, voltage or current measurement (Use reference voltage can also be used)
- Supply voltage: 27 V DC
- 9-channel shutter actuator
- Controls shutters, blinds, awnings etc.
- Switched voltage 250 V AC
- Maximum load: 4 A / AC1
- Rated current: 60 mA from BUS

**9 Channels**

- **9 channels**
  - Controls shutters, blinds, awnings etc.
  - Switched voltage: 12–24 V DC
  - Maximum load: 85 A
  - Rated current: 60 mA from BUS

**3x Analog Outputs**

- **4x Analog Outputs (DAC3-04B)**
  - Integration of sensors with analog outputs
  - 6x analog outputs
  - Supports voltage, current and resistance signals
  - Rated current: 100 mA from BUS

**Input Modul (IM3-200B, IM3-400B, IM3-80M, IM3-160B)**

- 2x, 4x, 8x, 16x analog input
- 2x, 4x, 8x, 16x digital input
- Rated current: 20 mA from BUS

**Solution**
Use case 1:
Central unit on EACH FLOOR

Room / 299

- Multifunctional Touch Panel EHT3
- Glass Room Thermoregulator GRT3-50/B
- Glass Card Reader GCR3-11/B
- Smart Card Holder GCH3-31/B
- Glass Door Bell GDB3-10/B
- Glass Touch Panel GSP3-100/B
- Glass Bedside Panel (2 Fold) GBP3-60/B/2F
- Occupancy sensor
- Window detector
- Dimming Actuator SA3-22M
- Switching Actuator SAS-22M
- Glass Bedside Panel (2 Fold) GBP3-60/B/2F

Capacity (with 10 devices in room):
- up to 6x fan-coil
- up to 5x lights
- 1x blinds

...up to 37 rooms per floor
...up to 64 floors

Floor 64
Floor 63
Floor 3
Floor 2
Floor 1

RECEPTION

Property Management System

LAN infrastructure

BMS Controller
Multimedia Server

HOTEL

CU3-03M

CU3-03M

CU3-03M

CU3-03M
Use case 2:
Room controller on EACH ROOM

Room / 299

- Multifunctional Touch Panel ETH3
- Glass Room Thermoregulator GRT3-50/B
- Glass Card Reader GCR3-11/B
- Smart Card Holder GCH3-31/B
- Samsung Hospitality TV
- Glass Door Bell GDB3-10/B
- Glass Touch Panel GPS3-50/B
- Glass Bedside Panel (2 fold) GBP3-60/B
- Music Player
- Electronic Lock
- Motion Detector
- Window Detector

Capacity (with 1 controller in room):
... up to 3000 rooms
**Bedside panels configuration**

**Socket**
(Number in brackets is original Vimar product code.)

- USA outlet
- Multistandard outlet
- Schuko outlet
- French outlet
- PIN outlet
- British outlet

**Switch**
(Number in brackets is original Vimar product code.)

- One switch / 1M
- One switch / 2M
- Three switches

**Data & Audio / Video**
(Number in brackets is original Vimar product code.)

- USB power supply unit
- TV-FM-SAT socket outlet
- VGA connector

**Plastic Bedside Panel**

**Glass Bedside Panel**
(Configure bedside panel according to your request.)

**Part number**

- **GBP3-60/xx/xF-xx**

If you have any question contact our sales representative. For more information: [https://download.vimar.com/irj/go/km/docs/z_catalogo/DOCUMENT/B_C17013Eikon_inglese.76173.pdf](https://download.vimar.com/irj/go/km/docs/z_catalogo/DOCUMENT/B_C17013Eikon_inglese.76173.pdf)
The iDM Hotel software configuration tool is used by the iNELS central units through which are controlled all the peripheral units such as wall controllers, thermostats or input unit on one hand and output actuators on the other. iDM Hotel has been developed with the emphasis on user friendliness and ease of navigation even in large projects, commercial buildings and allows management of the system by remote access. iNELS central units are equipped with a universal protocol for communicating with superior BMS and PMS systems, and through iDM Hotel are exported all objects used in communication between BMS and iNELS.

**Room control/Indication**

**Room 1**

- **temp.** actual: 23.5°C
- **set:** 22.4°C
- cooling
- DND (Do not Disturb)
- MUR (Make Up Room)
- door locked
- room occupied
- cooling ON
- heating ON

**Customization**

**Broad selection of color variations (design LOGUS®)**

- Base Plastic
- Aquarella Metallic plastic
- Animato Colour plastic
- Animato Colour plastic
- Crystal Glass (W/B)
- Metal Plastic
- Metal Plastic
- Arbore Wood
- Arbore Wood
- Petra Stone

**Standard symbols for laser on plastic key and glass panel**

- other on request

**Glass colour selection**

- Black crystal
- White crystal
- Blue crystal
- Red crystal
- Yellow crystal

- and other colours
Integration with BMS & PMS

BMS – Building Management System
PMS – Property Management System

Buildings today are equipped with an array of systems to control HVAC (heating, ventilation and air conditioning), lighting, shading, security, GRMS (Guest Room Management System), energy management, emergency lighting, fire alarms, CCTV, access control systems, elevators and other technologies. Effective integration and communication among the various systems in the building is critical to creating a comfortable environment for all users, to reduce building operation costs and reduce carbon dioxide emissions required for the operation of buildings.

iNELS is a great solution for a variety of jobs, particularly in the areas of lighting, shading and GRMS (Guest Room Management System), and thanks to its modular and flexible topology it is used in commercial projects of hotels, office buildings, restaurants, wellness centres or manufacturing plants and warehouses.

**AVAILABLE PROTOCOLS:**

- BACnet
- LonWorks
- Modbus
- M-Bus
- Opera
- KNX

* A complete list can be found on [www.inels.cz](http://www.inels.cz).

### Effective access control system

The system controlling entry to the building and to the individual zones is a key factor that affects the safety of people, property and information. Automated control technologies, such as lighting, HVAC and shading provide the optimum working environment while efficiently using energy.

Installing RFID card readers, in elegant glass design, can ensure that only authorized persons are allowed into each zone. This event may also be associated with performing certain scenarios within the work place of the person, e.g. during morning arrival. A major theme is the automation of the various reservations of meeting rooms and the scenes in them for certain activities, such as, business meetings, lectures, videos, etc.).

### Control system cares about

- The easiest user experience
- Unified management interface through sharing the spaces
- Full integration of A/V techniques and environment management
- Audio and video available in every space

### What is important for office space ‘tomorrow’?

- Platforms for users
- Internet of Things
- Data sharing
- Conferencing and Collaboration
- Cloud services
- Money savings
- Safety
- Money savings

### Conference and office control

**Platforms for users**

- Internet of Things
- Data sharing
- Conferencing and Collaboration

**Cloud services**

- Money savings
- Safety

**Internet of Things**

- Conferencing and Collaboration
- Money savings
- Safety

**Money savings**

- Conferencing and Collaboration

**Data sharing**

- Money savings
- Safety

**Safety**

- Conferencing and Collaboration

**Conferencing and Collaboration**

- Money savings
- Safety

**What is important for office space tomorrow?**

- Shading
- Reservation systems
- Dashboard
- Audio / Video
- Controls
- Teleconferences
- Locating people
- Measuring & energy savings
- Air Quality
- Security systems
- Ventilation
- Heat / Cold
This is the automatic control of lighting, which is controlled by a combination of sensors (motion / door) and a switching component. Operation is fully automatically or via a wireless controller, which is beyond the basic functions (ON / OFF). Additionally, MASTER OFF function (one touch turns off all the lights). Can control not only the main room lighting, but also a lamp in the corner of the room, curtains/blinds or can disable all/some of the socket circuits. This combination of detector and the switching component provides hoteliers savings in lighting costs and customer ease of use.

**Motion Detector**
Combination of detectors and Master switching unit bring automatic lighting control.

**Door / Window Open Detectors**
Combination of door/window open detectors and Master switch unit bring automatic thermoregulation.

**Wireless Dimmable LED**
Dimming is one of the basic characteristics of a smart home. Dimmers not only render a pleasant atmosphere, but also save on electricity. iNELS offers dimmers in various designs (box, flush, DIN rail mounted, socket) for all types of light sources including today’s popular LEDs.

**Thermoregulator**
Combination of digital thermoregulator RFTC-150/G and switching unit RFSA-166M is used for fan coil/temperature control in the room. Regulator can change the standard temperature modes of heat and cool and it has three stages speed mode – low, medium, high.

**4 Buttons Controller**
Thanks to the flat base of wireless switch it is easy to put it on the rightstand, wall or glass wall. Wireless switches have a function MASTER OFF. When the button is pressed it will turn off all the lights and a fan in the room, curtains close.

**Radio & Music Player**
LARA is a choice if you want to listen to music in a room. LARA is an internet radio, player of your favorite music from your smartphone or Hotel central storage of music.

**Smart Card Holder**
After inserting a hotel card to card switches it will activate automatic regulation of lights in the room. If guest is leaving the room and closing the door when is installed door detector RFWD-100 then it sends a command „delay OFF” and the light turns off.
- power: 3 V CR 2032 battery
- 2 channels, 4 channels
- scenes function
- command LED indication
- switching with a micro-button

- operated from 32 channels
- overheat protection
- minimum brightness setting
- light scenes function
- control from external button
- type of load: R, L, C, LED, ESL
- switching with a micro-button
- command LED indication
- 2 channels / 4 channels

- plays the stream of internet amplifer 2x10 W
- power over Ethernet, radios and music from NAS
- design LOGUS 90
- terminal for control from existing button
- operated from 32 channels
- special function for master
- load: 16 A
Use case 1: SIMPLE RETROFIT

Combination of existing switch with wireless controllers

- control local HVAC system with 1 speed fan-coil
Use case 2: FULL RETROFIT

All devices are fully wireless

Motion Detector
RFMD-100

Lamp Bulb
RF-RGB-LED-550

Window Open Detector
RFWD-100

Main Light
RF-RGB-LED-550

Bedside Panel

Bedside Panel

Fan-coil (3 speeds)

RFDA-73M/RGB

RFSA-166M

RFSA-66M

for actuation in bathroom

Ball
Main MCB
Master Contactor

Main Light
RF-RGB-LED-550

Smart Card Holder
RFCH-31/W

Multifunctional in front of Controller
RFPCR-31/G

Radio & Music Player

Thermoregulator
RFTC-150

Convector
RFCON-1

Wireless Switch Unit
RFSA-61B

for Fan-coil

RFDA-73M/RGB

Dimming actuator
RFSA-66M

for actuators in bathroom

Bell
Main MCB

LAN PoE

Mirror Light LED Strip

4 Buttons Switch
RFWB-40

Lamp Bulb
RF-RGB-LED-550

Lamp Bulb
RF-RGB-LED-550

Lamp Bulb
RF-RGB-LED-550

Lamp Bulb
RF-RGB-LED-550

Bedside Panel

Bedside Panel

Door Open Detector
RFWD-100

Door Lock

4 Buttons Switch
RFWB-40

RFMD-100

RF-RGB-LED-550

RFATV-1

RF-RGB-LED-550
ELKO EP

ELKO EP employs about 330 people, exports its products to more than seventy countries, and has representatives in thirteen foreign branches. Company of the Year of the Zlín Region, Visionary of the Year, Global Exporter of the Year, Participation in the Czech TOP 100, these are just some of the awards received. Still, we are not finished. We are constantly striving to move forward in the field of innovation and development. That’s our primary concern.

Millions of relays, thousands of satisfied customers, hundreds of our own employees, twenty six years of research, development and production, thirteen foreign branches, one company. ELKO EP, innovative - a purely Czech company based in Holešov, where development, production, logistics, service and support go hand in hand. We primarily focus on developing and manufacturing systems for building automation in the residential, commercial and industrial sector, a wide range of Smart city facilities and the so-called Internet of Things (IoT).

Facts and stats

330 EMPLOYEES
10 000 INELS INSTALLATION
12 000 000 MANUFACTURED PRODUCTS
20 mil. EUR ANNUAL TURNOVER
40% CZECH EXPORT
30% BRANCHES
13 BRANCHES OVER THE WORLDS
70 EXPORTING COUNTRIES

DEVELOPERS
In the new R&D center, more than 30 engineers develop new products and extend the functionality of existing products

PRODUCERS
modern antistatic spaces, 2x fully automated SMD production lines, 2 shift operations.

SUPPORT
24 hours / 7 days / 360 days we not only provide technical support but also logistics.

SELLERS
personal access to more than 70 sales representatives in ELKO EP Holding provides impeccable services and superior products at an affordable price.

WE ARE
References

Kempinski Hotel Bayterek
Almaty / Kazakhstan
- 5-star hotel in Almaty Kazakhstan
- lighting control in public areas
- more than 15,000 lighting are controlled through the DALI protocol
- setup scenes

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

Baltazár Boutique
Budapest / Hungary
- access card control
- lighting scenes in the restaurant
- supervision from BMS
- app available for any guest

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

Cal Reiet Santanyi
Mallorca / Spain
- swimming pool technology control
- fountain control
- Guest Room Hotel Management System

Movenpick
Dubai / UAE
- 265 rooms, 23,000 sq ft, 330 units
- HVAC control
- garage doors, sockets

Wyndham Grand
Istanbul / Turkey
- lighting control in each room, the common areas, conference rooms and other spaces
- 3000 lighting circuits are controlled through the DALI protocol
- EMDC units

Merit Royal Premium
Kyrenia / Cyprus
- 125 rooms
- complete management of hotel rooms
- scenes: arrival/departure and day/night
- Guest Room Management System

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
Skhidnica / Ukraine
- 5-star hotel
- 179 fully automated rooms powered on iNELS
- automation of lighting, heating, cardreaders
- in every room there is SA3-012M, IM-140M, WSB3-40

Farm Motel
Poříčí / Czech Republic
- lights scenes
- heating control
- blinds

Living Showroom
Prague / Czech Republic
- designed residential showroom about 36 m²
- control units are part of the interior
- stage connection with projection and visitor needs
Pest-Buda Bistro & Hotel
Budapest / Hungary
• 10 rooms with unique luxury equipment with unique copper lamps and unique heating & air-conditioning

Alexandrovskiy
Odessa / Ukraine
• 25 rooms with fully automation and dispatching
• integration with Samsung central conditioning

Lord’s Palace
Kyrenia / Cyprus
• 5-star hotel
• lightig control in the restaurant, conference hall, parking, wellness and corridors

Rocks Hotel & Casino
Kyrenia / Cyprus
• 5-star hotel
• located close to historical city Kyrenia
• The lights are controlled in INELS system via light panel, USB socket, glass thermostats

Building XENEX
Žilina / Slovakia
• lighting control
• heating control, HVAC
• access control system, cameras, alarm

References

Alexandrovskiy
Odessa / Ukraine
• 25 rooms with fully automation and dispatching
• integration with Samsung central conditioning

Lord’s Palace
Kyrenia / Cyprus
• 5-star hotel
• lightig control in the restaurant, conference hall, parking, wellness and corridors

Rocks Hotel & Casino
Kyrenia / Cyprus
• 5-star hotel
• located close to historical city Kyrenia
• The lights are controlled in INELS system via light panel, USB socket, glass thermostats

Brochure
Selection of References
More on: www.inels.com

Others just resell
HOWEVER, WE DEVELOP AND MANUFACTURE PRODUCTS OURSELVES!

26 years on the market
15 years ISO certification
40 developers
330 employees

2 000 m² manufacturing space
200 proprietary plastic mods
2 SMD lines
1 mil. components per day

600 000 products per year
2 000 m² finalization and dispatch
2000 warehousing spaces
2 printing lasers