Hospitality Solution
for new & existing hotels



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

In a new hotel, smart is not only standard but a necessity. 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.

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, logo...
- configurable bedside panel as required

Safety

- occupancy sensor detects the presence of person(s)
- integration with the door access system
- the doorbell bell increases the guest's safety

Flexibility

- possibility to adjust the control functionality
- control and supervision from reception



BUS installation

Control	
• standard controllers	●
• frames from natural materials (wood, glass, metal, stone)	●
• glass controllers	●
• touch panel (EHT)	●
• smartphone application	●
Audio/Video	
• LARA – music & radio player with intercom	●
• TV control via application (must be used eLAN IR)	●
• device control via TV (hospitality TV with eLAN RF)	●
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	x
• navigation for Hotel guests	●

EXISTING room – RETROFIT

Thanks to the wireless communication with devices (sensors and actuators), the retrofit of an existing hotel room can be performed with minimal time consumed. Controllers can be attached anywhere and require no cables at all. The actuators are installed directly into the cabinet or in to the luminaire. The advantage (cost and installation) is that the LED bulb is directly dimmable, i.e. just place it in the main light or lamp. Wireless motion detectors and window openers further extend the possibilities of the entire system.

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

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
- fits to the interior, the controls can be placed anywhere – even bonded to the glass

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

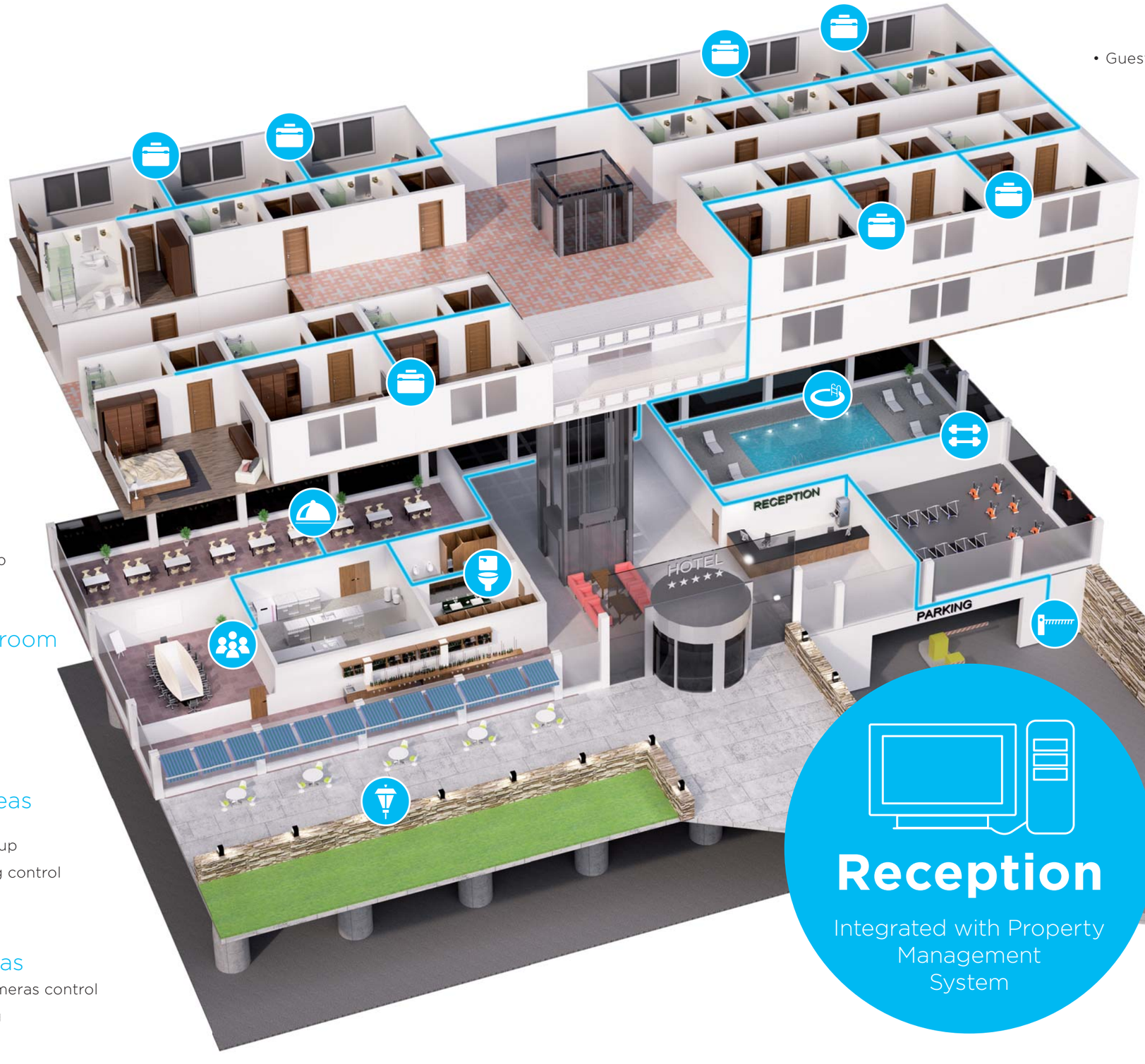


WIRELESS installation

Control	
• standard controllers	●
• frames from natural materials (wood, glass, metal, stone)	●
• glass controllers	●
• touch panel (RF Touch)	●
• smartphone application (eLAN 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)	●
• device control via TV (hospitality TV with eLAN RF)	●
Integration	
• GRMS (MUR, DND, Laundry)	●
• connection with BMS (Building Management System)	x
• connection with PMS (Property Management System)	x
• connection with door locks systems	x
Others	
• variability – change controllers place	●
• navigation for Hotel guests	x

Comprehensive solution

BUS/GRMS Solution



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

Outdoor areas
- Security and cameras control
- Garden watering

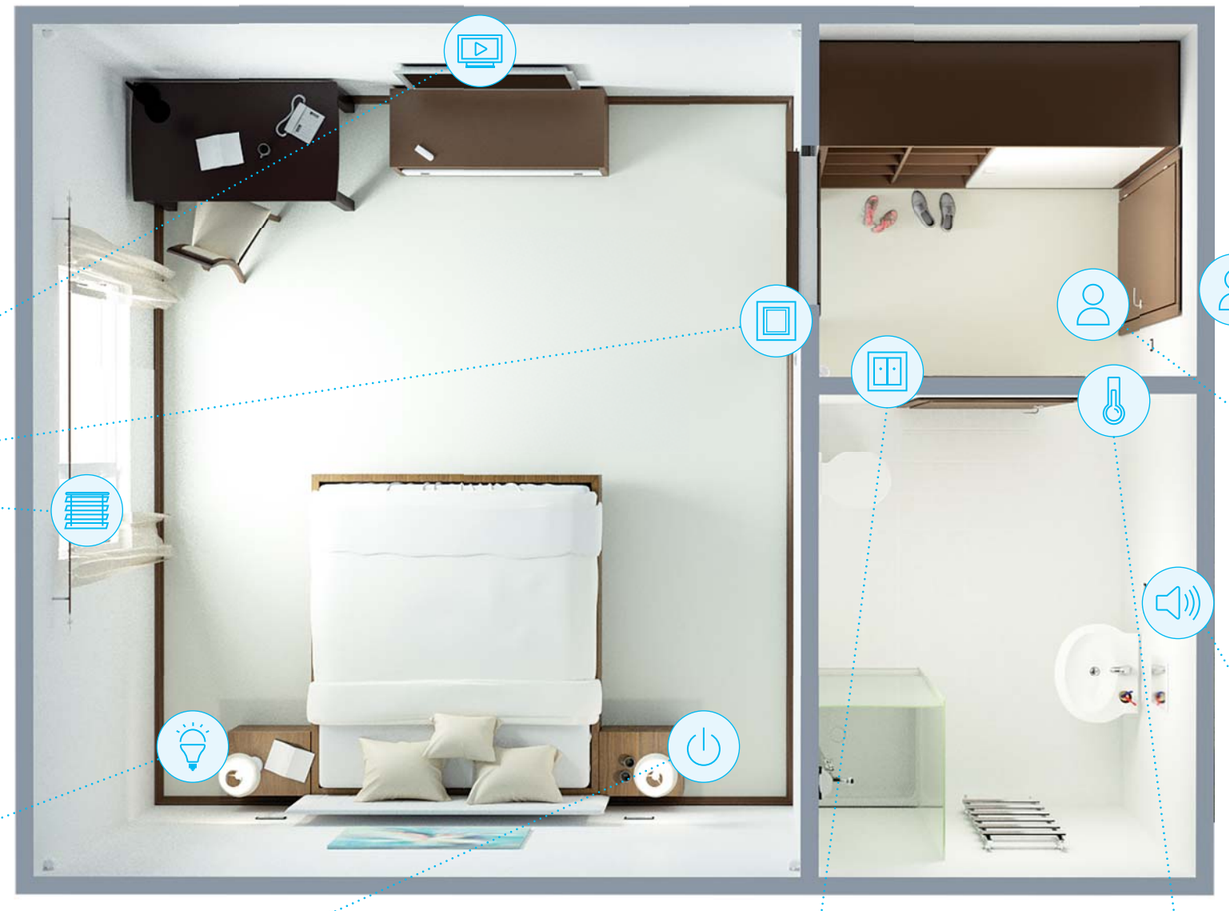
Reception
Integrated with Property Management System

... and other Property Management System softwares via API

NEW room

BUS/GRMS Solution

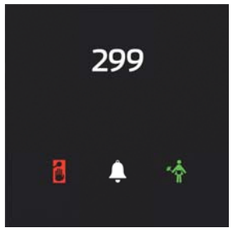
iNELS solution for guest room management is designed to help to create an environment that allows guests to feel as if they were at home. The hotel room always welcomes guests with a pleasant temperature and the controls offer a very simple to use option for creating the atmosphere which was currently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





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.



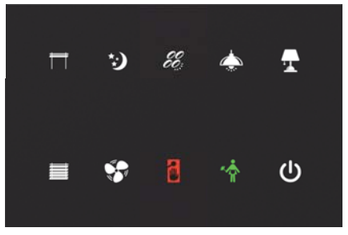
Glass Card Reader

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.



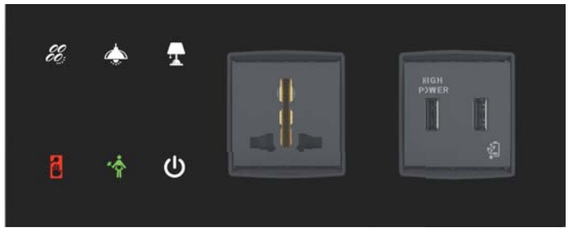
Smart Card Holder

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



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.



Glass Bedside Panel

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

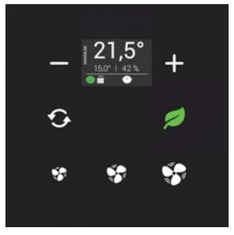


Configure bedside panel (see page 35)



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.



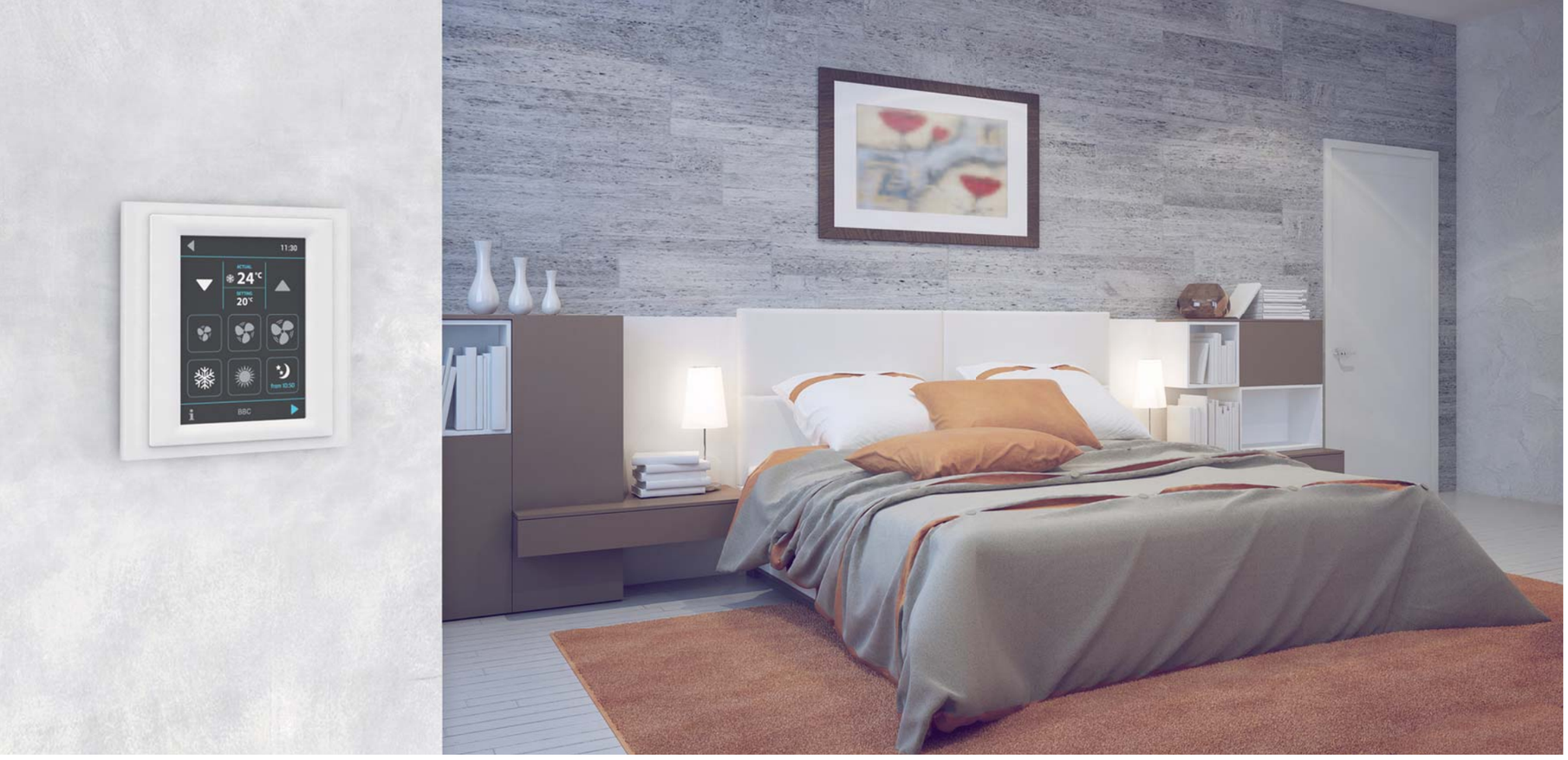
Glass Room Thermoregulator

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 ceilling or wall speakers.



Multifunctional Touch Panel

Control whole room from one place

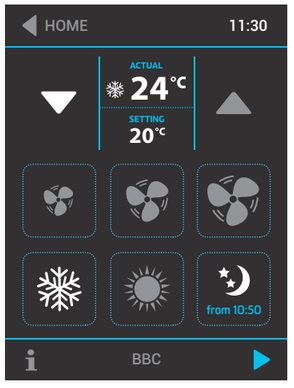
Fully configurable 3.5” touch screen with TFT display in variety frames design. Allows the control of all iNELS Hospitality features including multimedia. Fully configurable allowing the making of personalised screens for control lights, shutters, HVAC and audio.

Make up rooms, do not disturb and laundry buttons included. Variable choice from the many frame designs and subframes under LOGUS[90] design (see page 37).



Multifunctional Touch Panel

EHT3



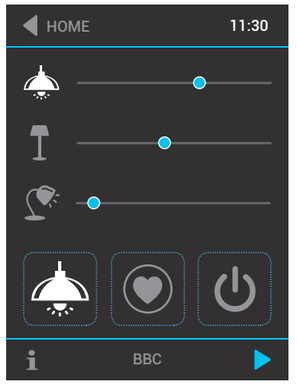
HVAC Control

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.

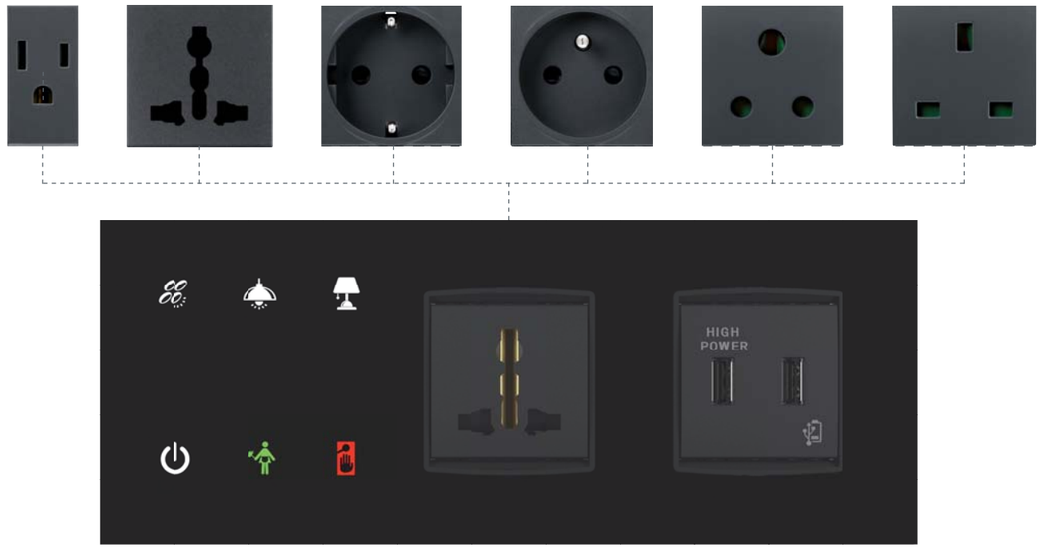


Bedside Panel

Not reason to rise from bed

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.



6 buttons with indicator | **AC power socket** | **2x USB sockets**

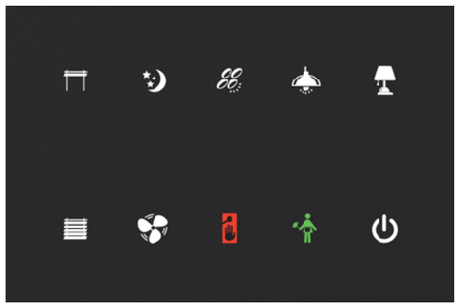
For more options & configuration see **page 34-35**

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

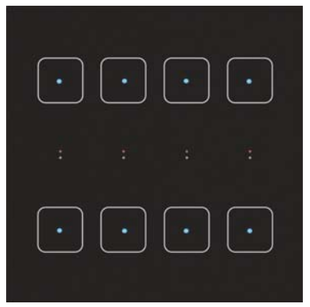
For scene control (lighting, music, and projection) it is also possible to use flat wireless switches, which thanks to customizable printing offers clear control.



Glass Switch Button (with symbols)

GSB3-60/SB

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.



Heating, ventilation & air-conditioning

Keep yourself comfortable

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,



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

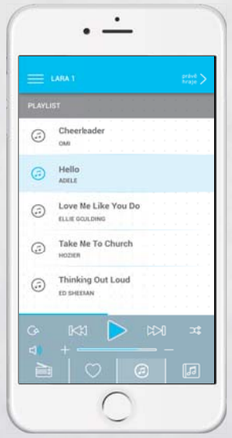
Actuator is used to control fancoil's units via an analog/digital inputs. Analog inputs are for temperature measurement, voltage or current. Connection is to installation BUS.



Bathroom Music & Power Kit

dlna

Wi-Fi



App LARA Dio

Wireless RFIO²



Additional Control Button



Audio distribution

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.



dlna

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 celling 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.

Lights | Temperature control | Music | TV | Movie on demand



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.



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.



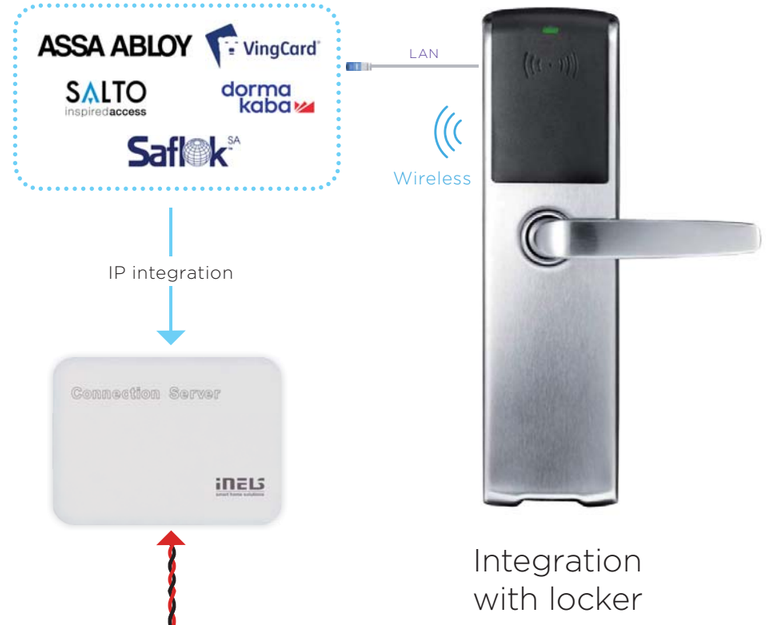
Access control

Clever access under top security

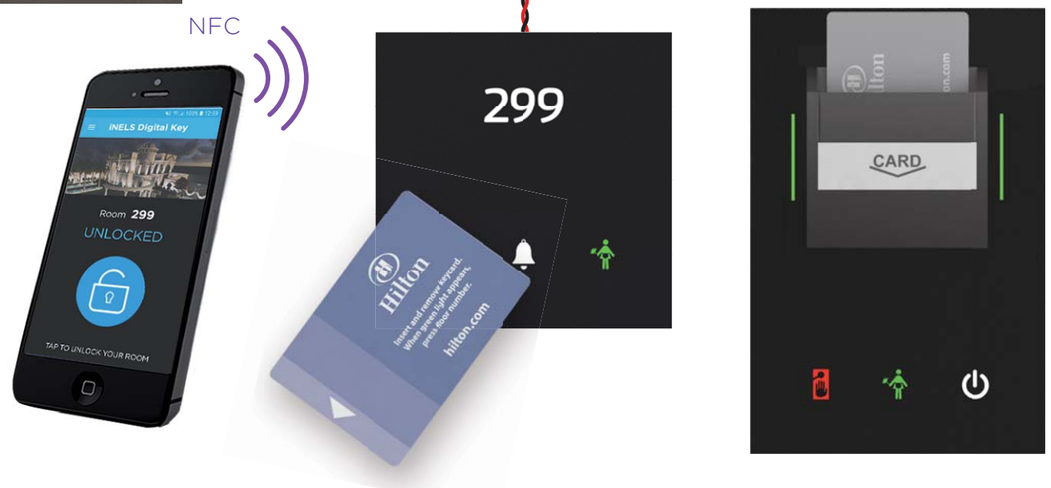
iNELS Hospitality offer two ways for access to room and other hotel facilities.

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.



Integration with locker



iNELS Digital Key

This smartphone app with a digital key)IDK) is another smart way how to unlock you room if you don´t have a card with you.

Glass Card Reader

GCR3-11/B, RFGCR-31/B

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

GCH3-31/B, RFGCH-31/B

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.

Common areas

Total supervision for reliable service

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.



Overview of the app

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/S
GSB3-40/S
GSB3-60/S

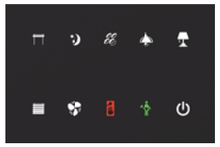
- Glass touch controllers with individual symbols
- All versions are in the size of the module (94x94 mm)
- Individual symbols can be illuminated in one of several colours
- glass colour: white (W) or black (B)



Glass Switch Button (with symbols)

GSB3-20/B
GSB3-40/B
GSB3-60/B

- 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

GSP3-100/B (black glass)
GSP3-100/W (white glass)

- Glass Touch Panel GSP3-100 is part of a comprehensive iNELS series of units for the management of the hotel rooms and other areas
- ten touch buttons



Glass Room Thermoregulator

GRT3-50/B
GRT3-50/W

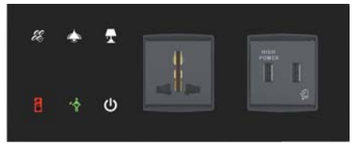
- display for showing the current room temperature
- GRT3-50 is also suitable for controlling fan-coils
- Thermo-regulator is equipped with an integrated temperature sensor



Glass Bedside Panel 1 fold

GBP3-60/BR/1F

- GBP3-60 panel is equipped with six customizable touch buttons
- control units for guest room management system



Glass Bedside Panel 2 fold

GBP3-60/BR/2F
GBP3-60/WL/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^{90} design
- rated current 150 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 the “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 Off”.



Wall Card Reader

WMR3-21

- RFID card reader 13.56 MHz
- NFC ready
- 2 push-buttons, LOGUS^{90} 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× 10 W



LOGUS Speaker

Into a frame

- dimensions (mm): ø 50.8
- maximum output: 10 W
- impedance: 32 Ω
- design LOGUS^{90}



Ceiling Speaker

Into a suspended ceiling

- dimensions (mm): ø 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

Standard (plastic) Controllers

Wall Switch Button

WSB3-20

- 2 push-buttons, design LOGUS^{90}
- integrated temperature sensor
- one colour signalization LEDs
- rated current 25 mA from BUS

Wall Switch Button

WSB3-40

- 4 push-buttons, design LOGUS^{90}
- integrated temperature sensor
- two colours signalization LEDs
- rated current 25 mA from BUS

Digital Room Thermoregulator

IDRT3-1

- digital thermo-regulator
- measures and controls temperature in room
- rated current 20 mA from BUS
- design LOGUS^{90}

Bedside Panel

WSB3-40, Schuko, 2x USB supply unit

- design LOGUS^{90}
- configure according to your request

Detectors



Ocupancy sensor

DMD3-1

- power: 27 V DC
- combined detector
- detect: motion and luminescence
- temperature and humidity sensor



Motion Detector

RFMD-100

- connected to RF
- detection angle 105°
- shot length 12 m (13.12 yd)
- wireless RFIO^{2}
- detect: motion

System Units



Central Unit

CU3-03M

- basic element of the system
- 1× BUS, 1× EBM BUS
- 3x ethernet 100 Mbps
- 8x DIN GS
- 4x DIN
- 7x AIN



Guest Room Bundle

CU3-04M
(CU3-03M & EA3-022M)

- manages DND/MUR, lighting, HVAC and shading in the guest room
- communicates with the BMS and PMS
- EA3-022M: not sold separately



External Master

MI3-02M | MI3-02M/EHT

- allows to expand the system 2× BUS
- communicates with the central unit via EBM (MI3-02M) or via Ethernet (MI3-02M/EHT)



BUS Power Separator

BPS3-01M | BPS3-02M
1x BUS 2xBUS

- supply voltage: 27 V DC
- indication of output voltage outputs BUS LED

HVAC Control



Fan-Coil Control Actuator

FA3-612M

- analog outputs 0—10 V
- connection to BUS
- analog inputs for temperature, voltage or current measurement (Uref reference voltage can also be used)

Shutter Actuators



9 Channels

JA3-018M

- 9-channel shutter actuator
- controls shutters, blinds, awnings etc.
- switched voltage 250V AC
- maximum load 4 A/AC 15 for each channel
- rated current 60 mA from BUS



1 Channel

JA3-02B/DC

- controls shutters, blinds, awnings etc.
- switched voltage 12—24 V DC
- maximum load 0,85 A
- rated current 60 mA from BUS

Switching Actuators



2x Channels / DIN

SA3-02M

- 2× changeover contacts 16 A/AC1
- switching voltage 250 V AC1, 24 V DC
- controls sockets, shutters, lights, appliances etc.
- rated current 50 mA from BUS



4x Channels / DIN

SA3-04M

- 4× changeover contacts 16 A/AC1
- switching voltage 250 V AC1, 24 V DC
- controls sockets, shutters, lights, appliances etc.
- rated current 70 mA from BUS



6x Channels / DIN

SA3-06M

- 6× changeover contacts 8 A/AC1
- switching voltage 250 V AC1, 24 V DC
- controls thermovalves, lights, appliances etc.
- rated current 60 mA from BUS



12x Channels / DIN

SA3-012M

- 12x NO contacts 8 A/AC1
- switching voltage 250 V AC1, 30 V DC
- controls thermovalves, lights, appliances etc.
- rated current 20 mA/230 V AC



22x Channels / DIN

SA3-022M

- 12x NO contacts 6 A/AC1
- 4x NO contacts 10 A/AC1
- 4x SSR contactless 0,5 A/AC1
- equipped with 22 relay outputs
- switching lighting and socket circuits



1x Channel / BOX

SA3-01B

- 1x NO contact 16 A/AC1
- switching voltage 250 V AC1, 24 V DC
- controls sockets, thermos valves, lights, appliances etc.
- rated current 30 mA from BUS



2x Channels / BOX

SA3-02B

- 2x changeover contacts 8 A/AC1
- switching voltage 250 V AC1, 24 V DC
- controls shutters, lights, appliances etc.
- rated current 50 mA from BUS

Dimming Actuators



2x 400VA/R-L-C-LED

DA3-22M

- 2-channel universal dimming actuator
- load type: LED, ESL, resistive, inductive, capacitive
- maximum load: 400 VA for each channel
- rated current 10 mA from BUS



2x 0(1)—10 V

LBC3-02M

- two-channel actuator for fluo-rescent lamps
- analog outputs automatically control relays
- 2× 0(1)—10 V, 2× changeover contacts 16 A/AC1
- rated current 60 mA from BUS



3x LED Current

DCDA-33M

- three-channel 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

- 6-channel universal dimming actuator
- load type: LED, ESL, resistive, inductive, capacitive
- maximum load: 150 VA for each channel
- rated current 10 mA from BUS



6x Analog Inputs

ADC3-60M

- integration of sensors with analog outputs
- 6× analog inputs
- supports voltage, current and resistance signals
- rated current 100 mA from BUS



4x Analog Outputs

DAC3-04B | DAC3-04M

- generates analog voltage signal
- 4× analogue output
- controls eg. RFDA-73M/RGB
- rated current 50 mA from BUS



Input Modul

IM3-20B, IM3-40B | IM3-80M
IM3-140B

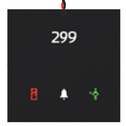
- are used for connecting of devices with potential free contacts
- contact of device ca be NO or NC
- 2x, 4x, 8x, 14x digital input
- rated current 20 mA from BUS

Room / **299**

BUS


Multifunctional Touch Panel EHT3

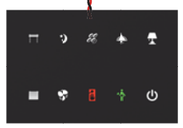

Glass Room Thermoregulator GRT3-50/B



Glass Card Reader GCR3-11/B


Smart Card Holder GCH3-31/B

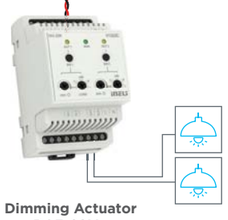

Glass Door Bell GDB3-10/B

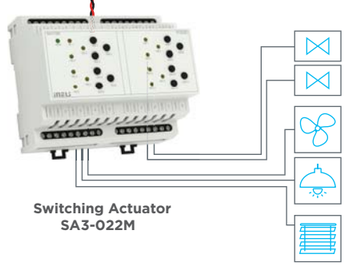

Glass Touch Panel GSP3-100/B


Glass Bedside Panel (2 fold) GBP3-60/B/2F


Ocupancy sensor


Window detector


Dimming Actuator DA3-22M


Switching Actuator SA3-022M

...up to 6x fan-coil

...up to 5x lights

...1x blinds

Capacity (with 10 devices in room):
... up to **57 rooms per floor**
... up to **64 floors**

HOTEL

Floor **64**

Room **6457** Room **6404** Room **6403** Room **6402** Room **6401** BUS CU3-03M

Floor **63**

Room **6357** Room **6304** Room **6303** Room **6302** Room **6301** BUS CU3-03M

Floor **3**

Room **357** Room **304** Room **303** Room **302** Room **301** BUS CU3-03M

Floor **2**

Room **257** Room **204** Room **203** Room **202** Room **201** BUS CU3-03M

Floor **1**

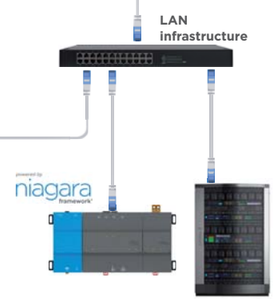
Room **157** Room **104** Room **103** Room **102** Room **101** BUS CU3-03M

RECEPTION

Property Management System



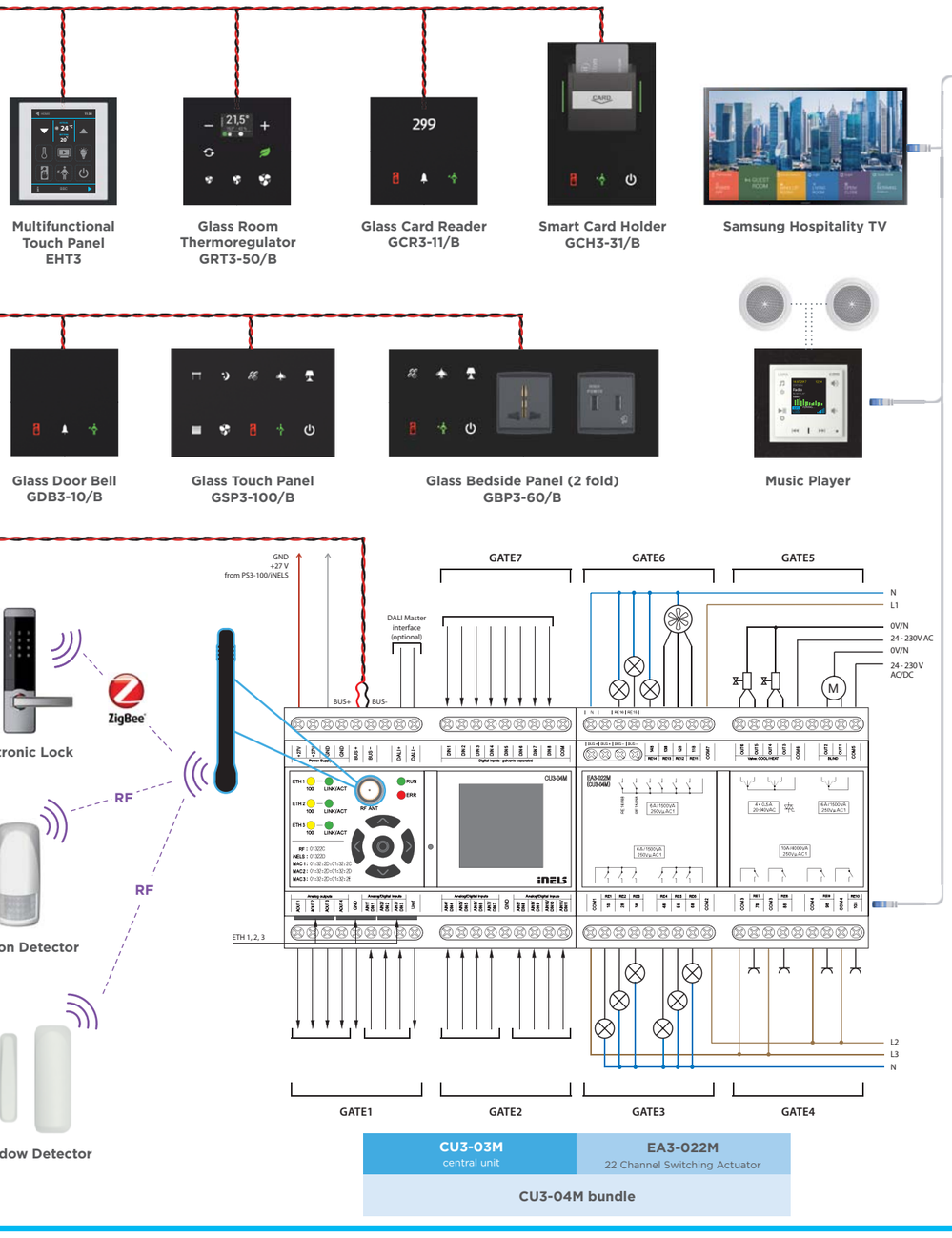
LAN infrastructure



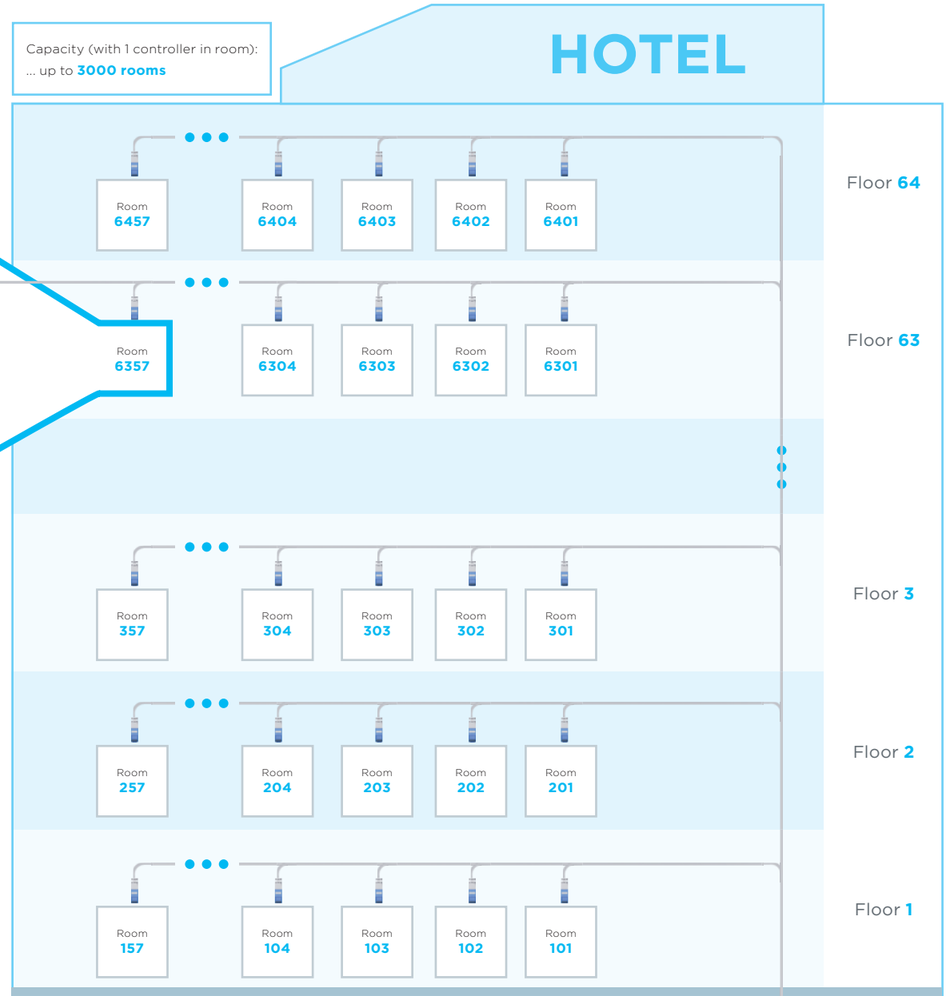
BMS Controller

Multimedia Server

Room / **299**



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
■	21B (20242)	26B (20257)	22B (20208)	23B (20212)	24B (20214)	25B (20219)
■	21W (20242.B)	26W (20257.B)	22W (20208.B)	23W (20212.B)	24W (20214.B)	25W (20219.B)

Switch

(Number in brackets is original Vimar product code.)



	One switch / 1M	One switch / 2M	Three switches
■	11B (20001)	12B (20001.2)	14B (20003)
■	11W (20001.B)	12W (20001.2.B)	14W (20003.B)

Data & Audio/Video

(Number in brackets is original Vimar product code.)



	USB power supply unit	TV-FM-SAT socket outlet	VGA connector
■	20B (20295)	31B (20303)	32B (20348)
■	20W (20295.B)	31W (20303.B)	32W (20348.B)



	TV outlet	Phone outlet	A/V connectors	UTP outlet	USB supply unit	Switch (CBs)	HDMI connector	USB outlet
■	41B (20313)	42B (20320)	43B (20335)	44B (20337.6)	48B (20292)	46B (20405.06)	47B (20346.H)	45B (20345)
■	41W (20313.B)	42W (20320.B)	43W (20335.B)	44W (20337.6.B)	48W (20292.B)	46W (20405.06.B)	47W (20346.H.B)	45W (20345.B)

Plastic Bedside Panel



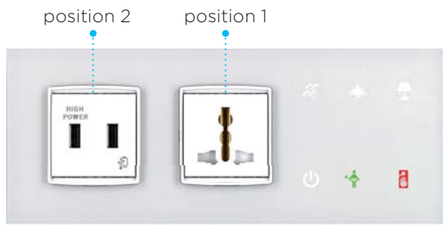


Schuko	French	EURO - USA	British
Mechanism 21130 Cover 90632 TBR	Mechanism 21110 Cover 90652 TBR	Mechanism 21140 Cover 90842 TBR	Device 90184

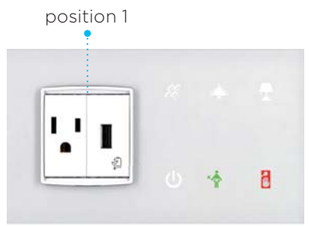
Glass Bedside Panel

(Configure bedside panel according to your request.)

L (left option)

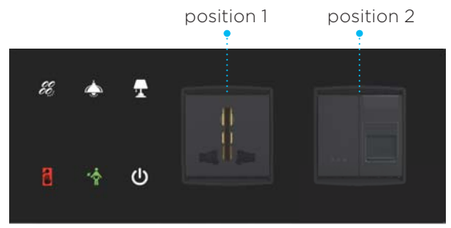


GBP3-60/WL/2F-26W-20W

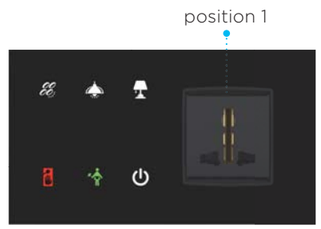


GBP3-60/WL/1F-21W45W

R (right option)

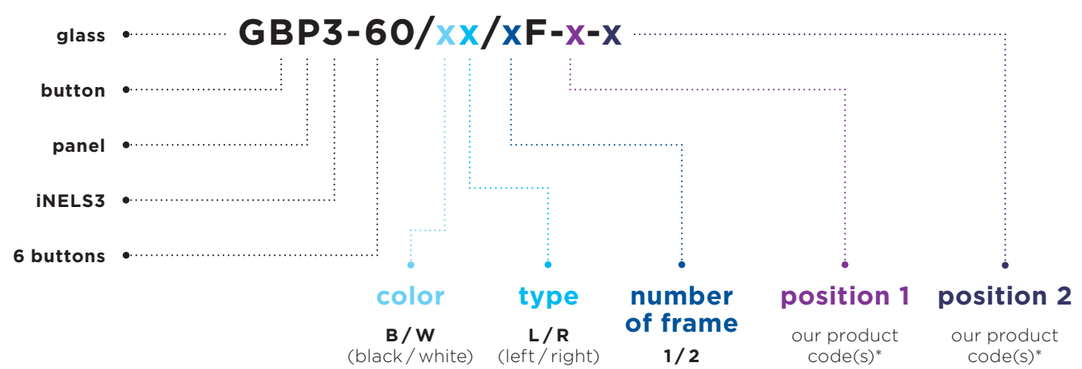


GBP3-60/BR/2F-26B-11B44B



GBP3-60/BR/1F-26B

Part number



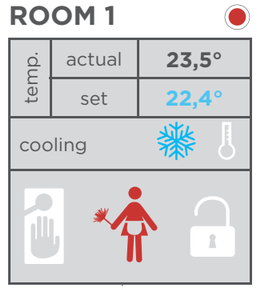
* In case of 1-module choice it is necessary to pick **2x** 1-module to fill up the 1 position, for example GBP3-60/WL-**21W45W.**

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

Reception console

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 the 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 occupied

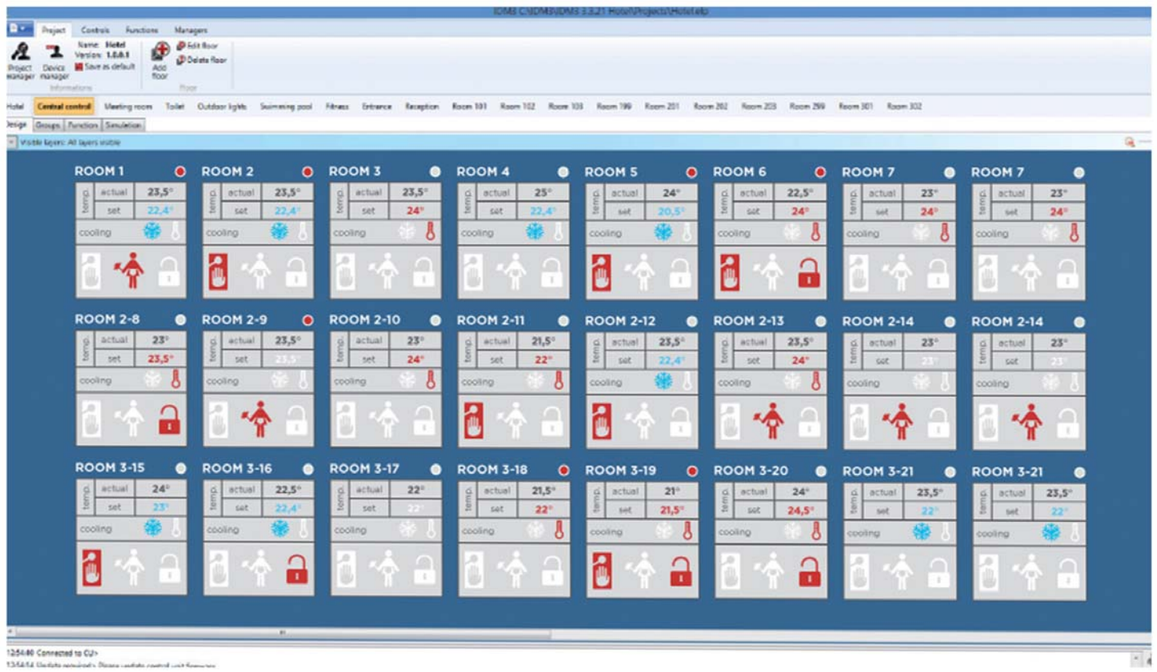
cooling ON

heating ON

DND (Do not Disturb)

MUR (Make Up Room)

door locked



Customization

Broad selection of color variations (design LOGUS^{90})



Base
Plastic



Aquarella
Metallic plastic



Animato
Colour plastic



Animato
Colour plastic



Crystal
Glass (W/B)



Metallo
Metal



Metallo
Metal



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.



Conference and office control

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.).

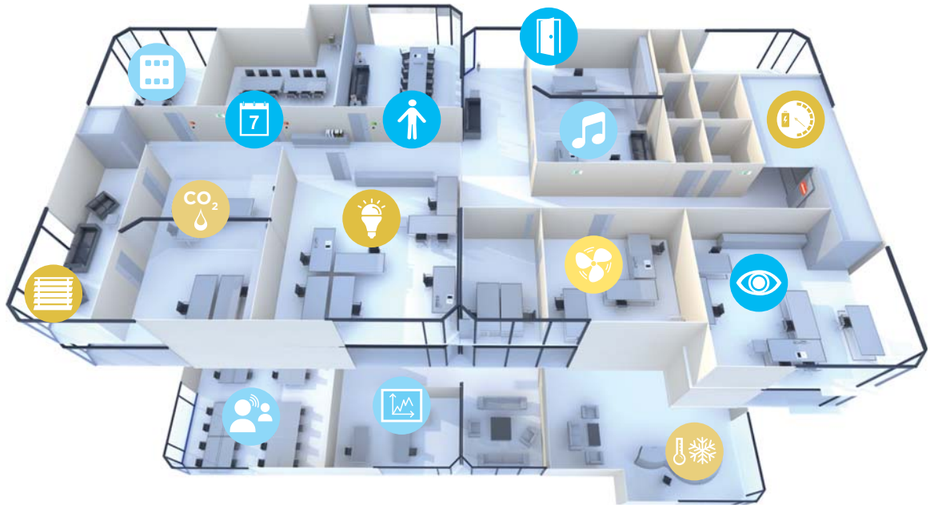


Control system cares about

- ✓ 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
- ✓ Cloud services
- ✓ Internet of Things
- ✓ Money savings
- ✓ Data sharing
- ✓ Safety
- ✓ Conferencing and Collaboration



- Shading
- Reservation systems
- Dashboard
- Audio / Video
- Controls
- Teleconferences
- Locating people
- Measuring & energy savings
- Air Quality
- Security systems
- Ventilation
- Heat / Cold

EXISTING hotel room

WIRELESS **RETROFIT**

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.





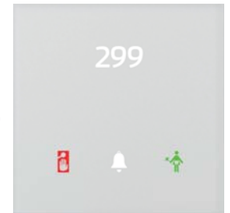
Motion Detector

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



Fan-coil Controller

Wireless actuator for fan-coils control. It can switch motor speed in three speeds and heating/cooling mode. DIN rail box for panel mounting, cooperation with RFTC-150/G thermoregulator.



Multifunctional in front of Controller

Wireless bell button for a flexible placing to any place in front of a room door. Call for buzzer or piezo inside of RFSA-166M unit (if used).



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 is easy to put it on the nightstand, wall or glass wall. Wireless switch has 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 where is installed door detector RFWD-100 then it sends a command „delay OFF" and the light turns off .

Product overview

WIRELESS **RETROFIT**

Controllers



Wireless wall controller

RFWB-20/G, RFWB-40/G

- power: 3 V CR 2032 battery
- 2 channels / 4 channels
- scenes function
- command LED indication
- switching with a micro-button



Door Bell

RFWB-20/G

- power: 3 V CR 2032 battery
- 2 channels
- command LED indication
- switching with a micro-button



RF Touch

Wall (surface), Flush

- power: 100—230 V AC, from the side 12 V DC
- setting with up to 40 units + 30 detectors
- central unit with autocontrol
- coloured TFT LCD display, 3.5˝



Remote Controller

RF Pilot

- power: 2x 1,5 V AAA batteries
- setting with up to 40 units
- inbuilt temperature sensor
- scene function
- status visualization
- colour OLED display

Switches & Dimmers



Universal Dimmer

RFDEL-71B

- type of load: R, L, C, LED, ESL
- control from external button
- light scenes function
- minimum brighteness setting
- overheat protection
- operated from 32 channels



HRESK Switch Unit

RFSAI-161B

- load: 16 A
- special function for master off and unblock with PIR and door detectors
- operated from 32 channels (of controllers)
- terminal for control from existing button



Switch Unit

RFSA-62B

- load: 16 A
- time-functions (2 s.—60 min.)
- operated from 32 channels (of controllers)
- terminal for control from existing button



Switch Unit

RFSA-66M

- power: 110—230 V AC/50—60 Hz
- load: 6x 8 A
- 6 independent channels
- time-functions (2 s.—60 min.)
- operated from 32 channels (of controllers)
- option of connecting an external antenna

Audio Distribution



Audio Player

LARA

- plays the stream of internet radios and music from NAS or external source
- equipped with a digital internal amplifi er 2x10 W
- power over Ethernet, design LOGUS^{90}



LOGUS Speaker

Into a frame

- dimensions (mm): ø 50.8
- maximum output: 10 W
- impedance: 32 Ω
- design LOGUS^{90}



Ceiling Speaker

Into a suspended ceiling

- dimensions (mm): ø 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

HVAC Units



Smart Wi-Fi RF Box

eLAN-RF-Wi-003

- power: 10—27 V DC/200 mA SELV
- setting with up to 40 units
- LAN or Wi-Fi connection
- managing accounts / backup of projects via web interface
- routing/repeater function
- iOS and ANDROID compatibility



HRESK Controller

RFSTI-111B

- over and under temperature control
- in combination with door and window detectors
- temperature range: 15 to 35°C
- load: 16 A
- ext. input for temp. sensor



Fan-coil Controller

RFSA-166M

- motor control in 3 speeds
- heating / cooling mode switch
- master on / off in combination with door / window detectors
- power: 110—230 V AC/50—60 Hz
- load: 6x 8 A
- option of connecting an external antenna

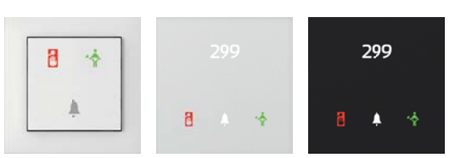


Temperature Controller

RFTC-150/G

- heating / cooling mode switch
- in build preset combination with RFSA-166M
- power: 2x 1,5 V AAA battery
- temperature range: 0 to +55°C
- weekly programming
- integrated sensor
- design LOGUS^{90} (glass , metal, wood, stone)

Access Control



Multifunctional in front of Controller

RFPCR-31/G Logus^{90} | RFGCR-31/W glass/white | RFGCR-31/B glass/black

- Multifunctional in front of controller included: RFID card reader, bell button, “Do Not Disturb” and “Make Up Room” signalling
- Available in LOGUS^{90} colors and frames design
- Available in glass black & white colour as well
- power supply: AC 230 V
- communication: wireless 868 MHz (iNELS RF)



Card Switch

21031 & 90731 Logus^{90}

- A standard card switch should be connected in to the RFPCR-31/G
- Available in LOGUS^{90}



Smart Card Holder

RFGCH-31/W glass/white | RFGCH-31/B glass/black

- Card holder with RFID reader
- allows detect fake card
- “Do Not Disturb”, “Make Up Room” signalling “Master OFF” button
- glass black & white colour
- power supply: AC 230 V
- communication: wireless 868 MHz

Detectors



Smoke Detector

RFSD-100

- power: 4x 1,5 V AA battery
- smoke detection: optical light scattering
- autotest



Motion Detector

RFMD-100

- power: 2x 1,5 V AA battery
- detection angle 105°
- shot length 12 m (13.12 yd)



Window / Door Detector

RFWD-100

- power: 1x 3 V CR2032 battery
- opened window / door detection
- battery status indication

LED Bulb



Wireless LED Bulb

RF-RGB-LED-550

- power: 100—240 V AC 50/60 Hz
- luminous flux: 550 lm / 675 lm
- brightness regulation: 0—100%
- compatible base: E27
- durability: 30 000 h.

Combination of existing switch with wireless controllers

- control local HVAC system with 1 speed fan-coil

power line

Wired PIR Detector

HRESK Switch Unit
RFSAI-161B

Retro Switch

Fan-coil – 1 speed
(heat / cool)

Universal Dimmer
RFDEL-71B

Retro Switch

Motion Detector
RFMD-100

Contact Corverter
RFIM-20B

Smart Card Holder
RFGCH-31/W

Multifunctional in front of Controller
RFPCR-31/G

Window Open Detector
RFWD-100

Lamp / Wall Light
RF-RGB-LED-550

Switch unit
RFSA-166M

Main Light
RF-RGB-LED-550

Light in the Corridor
RF-RGB-LED-550

Door Open Detector
RFWD-100

Door Lock

4 Buttons Switch
RFWB-40

LARA

Thermoregulator
RFTC-150

LARA
SOS Button

Switch Actuator
RFSA-62B

Mirror Light
LED Strip

Wireless Switch Unit
RFSA-61B

Thermo-Valve
RFATV-1

Bedside Panel

Bedside Panel

Radiator

Radiator

Fan

Light
RF-RGB-LED-550

Motion Detector
RFMD-100

Lamp Bulb
RF-RGB-LED-550

Fan-coil (3 speeds)

RFDA-73M/RGB
Dimming actuator

RFSA-166M
for Fan-coil

RFSA-66M
for actuators in bathroom

Bell

Main MCB

Master Contactor

Main Light
RF-RGB-LED-550

Smart Card Holder
RFGCH-31/W

Multifunctional in front of Controller
RFPCR-31/G

4 Buttons Switch
RFWB-40

Door Open Detector
RFWD-100

Door Lock

Window Open Detector
RFWD-100

Main Light
RF-RGB-LED-550

Thermoregulator
RFTC-150

Lamp Bulb
RF-RGB-LED-550

Lamp Bulb
RF-RGB-LED-550

Bedside Panel

Bedside Panel

Wireless Switch Unit
RFSA-61B

Thermo-Valve
RFATV-1

Convector

Radiator

4 Buttons Switch
RFWB-40

Radio & Music Player
LAN PoE

to RFSA-66M output 6/6

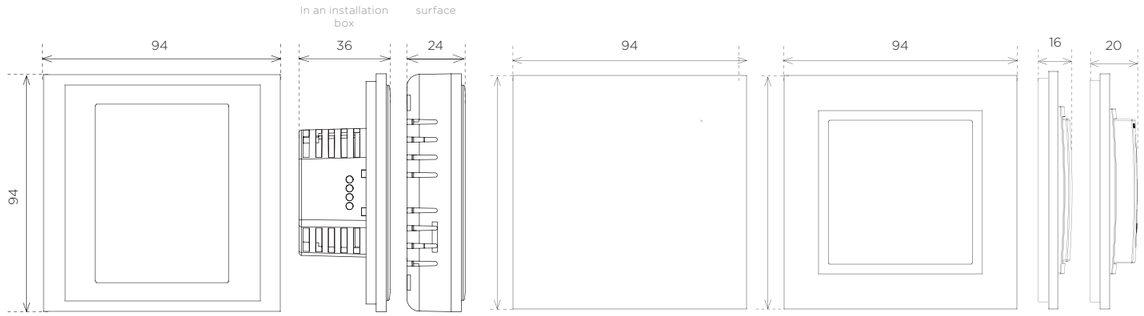
to RFSA-66M output 4/6

Mirror Light LED Strip

Fan

Light
RF-RGB-LED-550

Product dimensions



EST3

GSB3-40
GSB3-60
GSB3-80

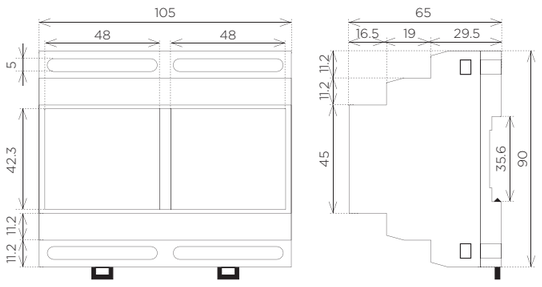
GMR3-61
GHR3-11

WSB3-20
WSB3-40
WMR3-21

WSB3-20H
WSB3-40H
IDRT3-1

RFWB-20/G
RFWB-40/G
RFTC-50/G

6 Module

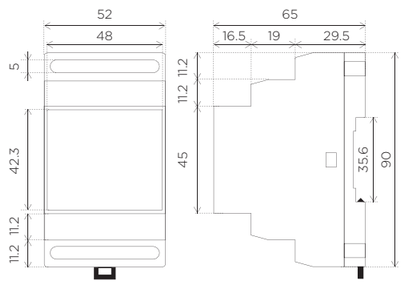


CU3-01M
CU3-02M
CU3-03M

PS3-100/iNELS
SA3-012M
SA3-022M

DA3-06M
JA3-09M

3 Module

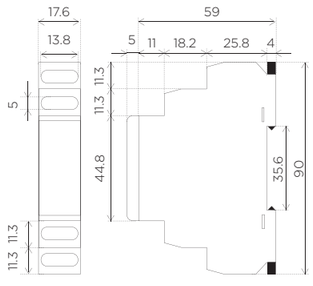


EMDC-64M
GSM3-01M
SA3-04M
SA3-06M
DA3-22M

LBC3-02M
DCDA-33M
RFDA-73M
IM3-140M
TI3-60M

ADC3-60M
DAC3-04M
RFSA-66M
RFDEL-71M
RFDA-73M/RGB
RFPM-2

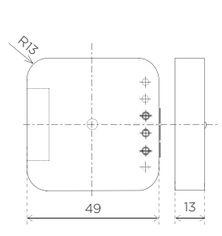
1 Module



MI3-02M
SA3-02M
BPS3-01M

BPS3-02M
RFSA-61M

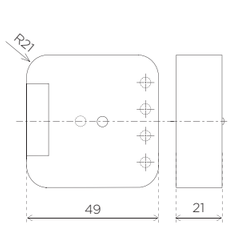
MINI



JA3-02B/DC
IM3-20B
IM3-40B
IM3-80B
DAC3-04B

TI3-10B
TI3-40B
RFTI-10B
RFSF-1B

MINI

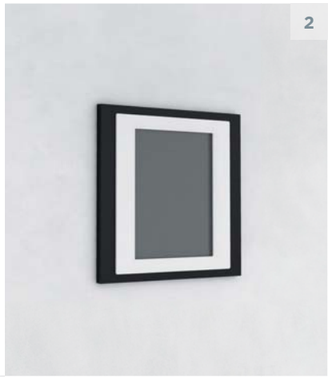


SA3-01B
SA3-02B
RFDEL-71B

RFSA-62B
RFSAI-61B
RFJA-12B/230V

Installation possibilities





1) Surface mounted

Wall mounted or in an installation box with spacing of 65 mm.

RFSD-100
RFWB-20/G
RFWB-40/G

RFMD-100
RFTC-50/G
RF Touch

2) Flush mounted

RF Touch-B
RFSTI-11/G
RFTC-100/G
RFDW-71

EST3
GSB3-40
GSB3-60
GSB3-80
GMR3-61
GHR3-11
WMR3-21

WSB3-20
WSB3-40
WSB3-20H
WSB3-40H
IDRT3-1





3) DIN Rail mounted

On DIN rail according to EN 60715.

RFSG-1M
RFGSM-220M
RFPM-2M
RFDA-73M/RGB
RFDEL-71M
RFSA-61M
RFSA-66M
RFSA-166M

ADC3-60M
BPS3-01M
BPS3-02M
CU3-01M
CU3-02M
CU3-03M
DA3-06M
DA3-22M
DAC3-04M
DCDA-33M
EMDC-64M
GSM3-01M

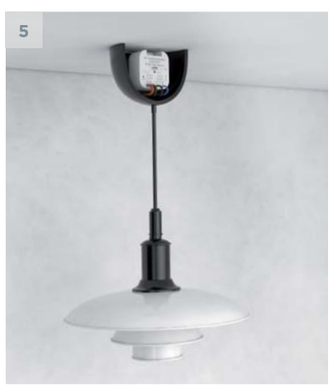
IM3-140M
JA3-09M
LBC3-02M
MI3-02M
PS3-100/iNELS
SA3-02M
SA3-04M
SA3-06M
SA3-012M
SA3-022M
TI3-60M

4) Mounted to or in the installation box

RFIM-20B
RFIM-40B
RFDAC-71B
RFDEL-71B
RFSA-11B
RFSA-61B
RFSA-62B
RFSAI-61B

RFJA-12B
RFJA-32B
RFSF-1B
RFSTI-11B
RFTI-10B
RFSAI-161B
RFSTI-111B

DAC3-04B
IM3-20B
IM3-40B
IM3-80B
JA3-02B/DC
SA3-01B
SA3-02B
TI3-10B
TI3-40B





5) Mounted into the cover of appliance

RFDAC-71B
RFDEL-71B
RFSA-11B
RFSA-61B
RFSA-62B

RFSAI-61B
RFJA-12B
RFJA-32B
RFSAI-161B
RFSTI-111B

6) Surface mounted

RFSOU-1
RFUS-61
RFTM-1
RFSF-1B

RFSD-100
RFMD-100
RFWD-100

ELKO EP



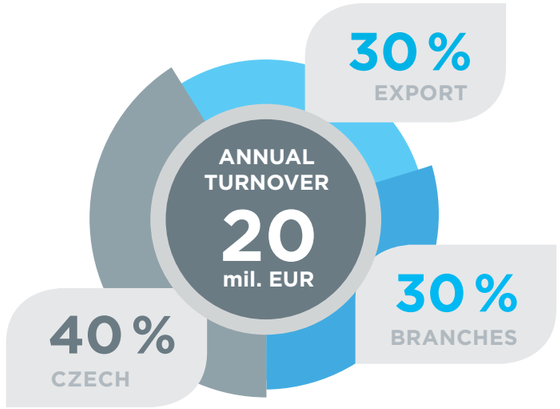
We are traditional, innovative and purely Czech development manufacturer of electronic devices and we have been your partner in the field of electroinstallations for 26 years.

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 finnished. 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

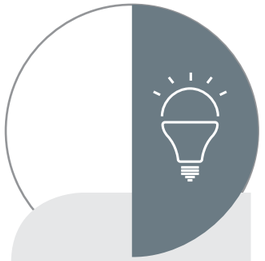
13
BRANCHES OVER THE WORLDS

70
EXPORTING COUNTRIES



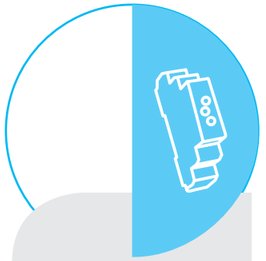
2nd position
in Europe

WE ARE



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.



Kempinski Hotel Bayterek

Almaty / Kazakhstan

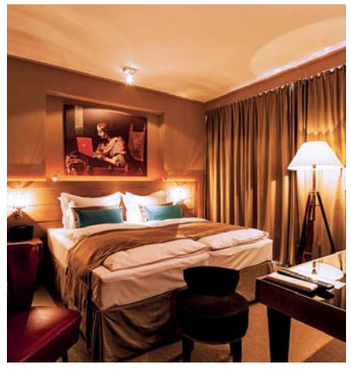
- 5-star hotel in Almaty Kazakhstan
- lighting control in public areas
- more than 15 000 lighting are control through the DALI protocol
- setup scenes



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



Movenpick

Dubai / UAE

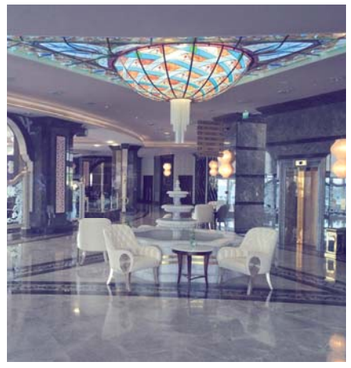
- 255 rooms, 230000 sq, 530 units, 1600 light circuits
- control appliances, lights
- HVAC control
- garage doors, sockets



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



Meydan

Dubai / UAE

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



Cal Reiet Santanyi

Mallorca / Spain

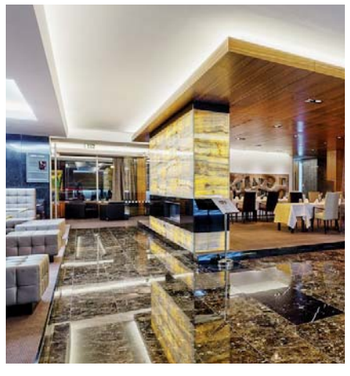
- swimming pool technology control
- fountain control
- Guest Room Hotel Management System



Farm Motel

Poříčí / Czech Republic

- lights scenes
- heating control
- blinds



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 on iNELS
- automation of lighting, heating, cardreaders
- in every room there is SA3-012M, IM-140M, WSB3-40



Living Showroom

Prague / Czech Republic

- designed residential showroom about 36 m^2
- control units are part of the interior
- stage connection with projection and visitor needs

References



Pest-Buda Bistro & Hotel

Budapest / Hungary

- 10 rooms with unique luxury equipment with unique copper lamps and unique heating & air-condition



Alexandrovskiy

Odessa / Ukraine

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



Building XENEX

Žilina / Slovakia

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



Lord‘s Palace

Kyrenia / Cyprus

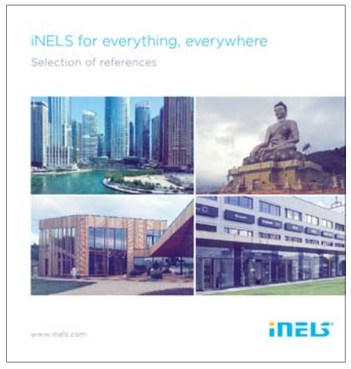
- 5-star hotel
- lightig control in the restaurant, conference hall, parking, wellness and corridors



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

- elkoep.com/download/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

2000 m²
finalization and dispatch

2000
warehousing spaces

2
printing lasers

ELKO EP Holding



www.elkoep.com

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