Hospitality Solution for new & existing hotel rooms

HOTEL ROOM ENERGY SAVING KIT
WIRELESS RETROFIT

EXISTING hotel room

GUEST ROOM MANAGEMENT SYSTEM
BUS INSTALLATION

NEW hotel room

www.inels.com
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.
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 black or white design. Readers come in a sleek contact with, is the RFID card reader for entry into the room offered in an attractive 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.

**Design**

- wide range of colours and frames
- glass variants of controllers in different colours
- customiztion: 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**

- 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

**Control**

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

**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 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

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.

**Design**

- wide range of colours and frames
- glass variants of controllers in different colours
- customiztion: 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**

- 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

**Control**

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

**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 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
Common areas
• Automatically environment setup
• Effective lighting control

Outdoor areas
• Security and cameras control
• Water gardering

Restaurants & Bars
• Bill transfer
• Ordering via App

Conference room
• Preebooking
• A/V control

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

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.

**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 personalized screens for control lights, shutters, HVAC, audio, video and TV.

**Glass Switch Panel**

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 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.

**Wall Push Button**

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

**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 or 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 backlighted room number.

**Glass 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, audio, video and TV.

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.

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, audio, video and TV.

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).
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.
Control Panels

Wider range of room controllers in variable designs

Fully customisable controllers. Finished frames in glass or plastic. 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.
Heating, ventilation & air-conditioning

Keep yourself comfortable

With INEL you have always more possibilities how to setup and control temperature in the room: digital thermostat, glass HVAC controller, App in phone or tablet 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.

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 Actuator
FA3-66M
Actuator is used to control fan coil’s units via an analog/digital inputs. Analog inputs are for temperature measurement, voltage or current. Connection is to installation BUS.
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 Connection Server or your own device – via cable or Wi-Fi.

Radio & Music player

LARA

Provides many 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.

Room Control My Channel / Multimedia

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.

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.

Samsung Hospitality TV

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.
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.

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.

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.

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.

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”.

Glass Card Reader

GCR3-11/B

Glass Card Holder

GCH3-31/B
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 that is part fMM and makes it 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.
Product overview

**Glass Touch Controllers**

- **Glass Switch Button**
  - GSBS-40, GSBS-60, GSBS-80
  - Glass Touch controllers with symbols
  - All versions are in the size of the module (94x94 mm)
  - Individual symbols can be illuminated in one of seven colours
  - Rated current 25—40 mA from BUS

- **Glass Switch Panel**
  - GS3P-100/B, GS3P-100/W
  - Glass Touch Panel GS3P-100 is part of a comprehensive iNELS series of units for the management of the hotel rooms
  - Ten touch buttons
  - Rated current 10.6—45 mA from BUS

- **Glass Room Thermoregulator**
  - GRT3-50/B, GRT3-50/W
  - Display for displaying 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**
  - GBP3-60/B, GBP3-60/W
  - Digital thermo-regulator
  - Measures and controls temperature in room
  - Rated current 20 mA from BUS

**Standard (plastic) Controllers**

- **Wall Push Button**
  - WSBS-20, WSBS-20H
  - 2 push-buttons, design LOGUS®
  - Integrated temperature sensor
  - One-color signalisation LEDs
  - Rated current 25 mA from BUS

- **Wall Push Button**
  - WSBS-40, WSBS-40H
  - 4 push-buttons, design LOGUS®
  - Integrated temperature sensor
  - Two-color signalisation LEDs
  - Rated current 25 mA from BUS

- **Thermoregulator**
  - IDRT3-1
  - Digital thermo-regulator
  - Measures and controls temperature in room
  - Rated current 20 mA from BUS
  - Design LOGUS®

- **Bedside Panel**
  - WSBS-40, Schuko, 2x USB supply unit
  - Design LOGUS®
  - Confignure according to your request

- **Multifunctional Touch Panel**
  - EHT3
  - Touch screen panel with 3.5'' display
  - Controls temperature, lighting, shading, scenes
  - LOGUS® design
  - Rated current 50 mA from BUS

- **Multifunctional Touch Panel**
  - EHT3
  - Touch screen panel with 3.5'' display
  - Controls temperature, lighting, shading, scenes
  - LOGUS® design
  - Rated current 150 mA from BUS

- **Glass Switch Button**
  - GSBS-40, GSBS-60, GSBS-80
  - Glass Touch controllers with symbols
  - All versions are in the size of the module (94x94 mm)
  - Individual symbols can be illuminated in one of seven colours
  - Rated current 25—40 mA from BUS

**Audio**

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

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

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

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

**Detectors**

- **DALI Motion Detector**
  - DMD3-1
  - Power: 27 V DC (INELS BUS)
  - Combined detector
  - Used motion detector, sensor luminescence

- **Motion Detector**
  - MD-100
  - Power: 2x 1.5 V AA battery
  - Detection angle 105°
  - Shot length 12 m (13.12 yd)

- **DALI sensor**
  - DSL3-1
  - Power: 27 V DC (INELS BUS)
  - The luminescence sensor
  - DSL3-1 sensor is supplied in IP65

**Access Control**

- **Glass Card Reader**
  - GCR3-1/B, GCR3-1/W
  - RFID card reader with RFID reader which detects correct card and eliminates fake cards. Optional 3 buttons: “Do Not Disturb”, “Make Up Room” and “Master Off”

- **Smart Card Reader**
  - GCR3-3/B, GCR3-3/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® design
  - Rated current 50 mA from BUS

- **Card Reader**
  - SCH3-10/B, SCH3-10/H
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.

- **Wall Card Reader**
  - SCH3-10/B, SCH3-10/H
  - RFID card reader 13.56 MHz
  - NFC ready
  - 2 push-buttons, LOGUS® design
  - Rated current 50 mA from BUS

- **Card Reader**
  - SCH3-10/B, SCH3-10/H
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.

**Bus/GRMS Solution**

- **Multifunctional Touch Panel**
  - EHT3
  - Touch screen panel with 3.5'' display
  - Controls temperature, lighting, shading, scenes
  - LOGUS® design
  - Rated current 150 mA from BUS

- **Access Control**
  - Logus 90 design
  - Rated current 150 mA from BUS

- **Glass Card Reader**
  - GCR3-1/B, GCR3-1/W
  - RFID card reader with RFID reader which detects correct card and eliminates fake cards. Optional 3 buttons: “Do Not Disturb”, “Make Up Room” and “Master Off”

- **Smart Card Reader**
  - GCR3-3/B, GCR3-3/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® design
  - Rated current 50 mA from BUS

- **Card Reader**
  - SCH3-10/B, SCH3-10/H
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.

- **Wall Card Reader**
  - SCH3-10/B, SCH3-10/H
  - RFID card reader 13.56 MHz
  - NFC ready
  - 2 push-buttons, LOGUS® design
  - Rated current 50 mA from BUS

- **Card Reader**
  - SCH3-10/B, SCH3-10/H
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.

- **Wall Card Reader**
  - SCH3-10/B, SCH3-10/H
  - RFID card reader 13.56 MHz
  - NFC ready
  - 2 push-buttons, LOGUS® design
  - Rated current 50 mA from BUS

- **Card Reader**
  - SCH3-10/B, SCH3-10/H
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.

- **Wall Card Reader**
  - SCH3-10/B, SCH3-10/H
  - RFID card reader 13.56 MHz
  - NFC ready
  - 2 push-buttons, LOGUS® design
  - Rated current 50 mA from BUS

- **Card Reader**
  - SCH3-10/B, SCH3-10/H
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.

- **Wall Card Reader**
  - SCH3-10/B, SCH3-10/H
  - RFID card reader 13.56 MHz
  - NFC ready
  - 2 push-buttons, LOGUS® design
  - Rated current 50 mA from BUS

- **Card Reader**
  - SCH3-10/B, SCH3-10/H
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.

- **Wall Card Reader**
  - SCH3-10/B, SCH3-10/H
  - RFID card reader 13.56 MHz
  - NFC ready
  - 2 push-buttons, LOGUS® design
  - Rated current 50 mA from BUS

- **Card Reader**
  - SCH3-10/B, SCH3-10/H
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.

- **Wall Card Reader**
  - SCH3-10/B, SCH3-10/H
  - RFID card reader 13.56 MHz
  - NFC ready
  - 2 push-buttons, LOGUS® design
  - Rated current 50 mA from BUS

- **Card Reader**
  - SCH3-10/B, SCH3-10/H
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.

- **Wall Card Reader**
  - SCH3-10/B, SCH3-10/H
  - RFID card reader 13.56 MHz
  - NFC ready
  - 2 push-buttons, LOGUS® design
  - Rated current 50 mA from BUS

- **Card Reader**
  - SCH3-10/B, SCH3-10/H
  - After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.
System Units

Central Unit
- Basic element of the system
- 2x BUS, 1x EBM BUS
- Ethernet 100 Mbps
- 2x AI, 4x DI, 1x DO

Guest Room Bundle
- CU3-04M (CU3-03M & EA3-022M)
- EA3-022M: not sold separately
- Manages DND/MUR, lighting, HVAC and shading in the guest room
- Communicates with the BMS and PMS

External Master
- MI3-02M
- Allows to expand the system
- 2x BUS
- Communicates with the central unit via EBM
- Basic element of the system
- 2x BUS, 1x EBM BUS
- Ethernet 100 Mbps
- 2x AI, 4x DI, 1x DO, 4x SSR contactless 0.5 A / AC1
- Equipped with 22 relay outputs
- Switching lighting and socket circuits

BUS Power Separator
- BPS3-02M
- Supply voltage: 27 V DC
- 2x BUS
- Indication of output voltage outputs BUS LED

Fan-coils Actuator
- FA3-66M
- Analog outputs 0—10 V
- Connection to BUS
- Analog inputs for temperature, voltage or current measurement. (Volt reference voltage can also be used)
- Rated current 60 mA from BUS

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 50 mA from BUS

6x Channels / DIN
- SA3-06M
- 6x changeover contacts 8 A / AC1
- Switching voltage 250 V AC, 30 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, 24 V DC
- Controls thermostatic valves, lights, appliances etc.
- Rated current 20 mA / 230 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 10 mA from BUS

2x 0(1)—10 V
- LB6C-02M
- Two-channel universal dimming actuator for fluorescent lamps
- Analog output automatically controlled by variable current
- Dimming load 2—24 V DC
- Controls via BUS, DALI or DMX
- Rated current 60 mA from BUS

3x LED Current
- DCDA-33M
- Three-channel actuator for LED for controlled by variable current
- Dimming load 2—24 V DC
- Controlled via BUS, DALI or DMX
- Rated current 60 mA for each channel

6x 150VA/R/L-C-LED
- 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

Converting

6x Analog Inputs
- ADC3-06M
- Integration of sensors with analog outputs
- Supports voltage, current, and resistance signals
- Rated current 150 mA from BUS

4x Analog Outputs
- DAC3-04B
- Generates analog voltage signal
- Controls eg. RFDA-73M / RGB
- Rated current 50 mA from BUS

4x Analog Outputs
- DAC3-04M
- Generates analog voltage signal
- Controls eg. RFDA-73M / RGB
- Rated current 50 mA from BUS

HVAC Control

EA3-022M: not sold separately
- Integration of sensors with analog outputs
- Supports voltage, current, and resistance signals
- Rated current 100 mA from BUS

Shutter Actuators

2x Shutters Actuator
- JA3-02B/DC
- Switches shutters, blinds, awnings etc.
- Switch voltage 12—24 V DC
- Maximum load 0.85 A
- Rated current 60 mA from BUS

9x Shutters Actuator
- JA3-09M
- 9-channel shutter actuator
- Controls shutters, blinds, awnings etc.
- Switch voltage 250V AC
- Maximum load 0.85 A
- Rated current 60 mA from BUS

1x Channel / BOX
- SA3-01B
- 1x NO contact 16 A / AC1
- Switching voltage 250 V AC, 24 V DC
- Controls sockets, shutters, lights, appliances etc.
- Rated current 30 mA from BUS

2x Channels / BOX
- SA3-02B
- 2x changeover contacts 8 A / AC1
- Switching voltage 250 V AC, 24 V DC
- Controls shutters, lights, appliances etc.
- Rated current 50 mA from BUS
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
- Glass Card Holder GCH3-31/B
- Glass Door Bell GDB3-10/B
- Glass Switch Panel GSP3-100/B
- Glass Bedside Panel GBP3-60/B
- Motion Detector
- Window Detector
- Dimming Actuator DA3-22M
- Switching Actuator SA3-022M

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

Floor 64
Floor 63
Floor 3
Floor 2
Floor 1

HOTEL

RECEPTION

Property Management System

Multimedia Storage
Server
Use case 2:
Room controller on EACH ROOM

**HOTEL**

**Floor 64**
Room 6437
Room 6404
Room 6403
Room 6402
Room 6401

**Floor 63**
Room 6357
Room 6304
Room 6303
Room 6302
Room 6301

**Floor 3**
Room 357
Room 204
Room 203
Room 202
Room 201

**Floor 2**
Room 157
Room 104
Room 103
Room 102
Room 101

**Floor 1**
Room 101
Room 102
Room 103
Room 104
Room 157

**RECEPTION**

**Bus/GRMS Solution**

- **Capacity (with 1 controller in room):**
  - up to 3000 rooms

- **Room / 299**
  - Multifunctional Touch Panel GHT2
  - Glass Room Thermoregulator GCR3-11/B
  - Glass Card Reader GCR3-11/B
  - Glass Card Reader GCR3-11/B
  - Samsung Hospitality TV
  - Music Player
  - Glass Door Bell GDB3-10/B
  - Glass Switch Panel GSF3-10/B
  - Glass Bedside Panel GBS3-60/B
  - Glass Card Holder GCH3-31/B

- **Electronic Lock**
  - Window Detector
  - Glass Door Bell
  - Glass Switch Panel
  - Glass Bedside Panel
  - Glass Card Reader
  - Multifunctional Touch Panel
  - Switch Panel

- **Use case 2:**
  - Room controller on EACH ROOM

- **Property Management System**
  - Multimedia Storage
  - Server
Bedside panels configuration

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

USA outlet
21B (20001)
21W (20001.0)
Multistandard outlet
26B (20001.2)
26W (20001.2)
Schuko outlet
22B (20001.3)
22W (20001.3)
French outlet
23B (20013)
23W (20013.0)
PIN outlet
24B (20013.4)
24W (20013.4)
British outlet
25B (20015)
25W (20015.0)

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

One switch / 1M
11B (20001)
11W (20001.0)
One switch / 2M
12B (20001.2)
12W (20001.2)
Three switches
14B (20003)
14W (20003)

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

USB power supply unit
20B (20295)
20W (20295.0)
TV-FM-SAT socket outlet
31B (20103)
31W (20103.0)
VGA connector
32B (20148)
32W (20148.0)

Plastic Bedside Panel

Glass Bedside Panel

(Model: GBP3-60)

If you have any question contact our sales representative.
For more information: www.vimar.com/en/int/catalog/product

Part number

GBP3-60/xx/xF-x-x

* 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: www.vimar.com/en/int/catalog/product
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.

Reception console

Room control/ Indication

<table>
<thead>
<tr>
<th>Room control/ Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room occupied</td>
</tr>
<tr>
<td>Cooling ON</td>
</tr>
<tr>
<td>Heating ON</td>
</tr>
<tr>
<td>DND (Do not Disturb)</td>
</tr>
<tr>
<td>MUR (Make Up Room)</td>
</tr>
<tr>
<td>Door locked</td>
</tr>
</tbody>
</table>

cooling
ON
DND
(Do not Disturb)
MUR
(Make Up Room)

Room 1

<table>
<thead>
<tr>
<th>Temp.</th>
<th>actual</th>
<th>23.5°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>set</td>
<td>22.4°C</td>
<td></td>
</tr>
</tbody>
</table>

Reception console

Customization

Broad selection of color variations (design LOGUS®)

- Base Plastic
- Aquarella Metallic plastic
- Animato Color plastic
- Animato Color 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 color selection

- Black crystal
- White crystal
- Blue crystal
- Red crystal
- Yellow crystal
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
- Fidelio
- 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 again provide the optimum working environment while efficiently using energy.

Installing RFID card readers, in elegant glass design, can ensure that only authorized persons entry 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.).

---

**Smart Office cares about**

- The easiest user experience
- Unified management interface through sharing the workspaces
- 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
- Conferencing and Collaboration
- Audio/Video
- Measuring & energy savings
- 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.

Combination of detector and the switching component provides hoteliers savings in lighting costs and customer ease of use.

**4 Buttons Controller**

Door / Window Open Detectors

Combination of door/window open detectors and Master switching unit bring automatic lighting control.

**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.

**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.

**Multi-functional 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).

**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.

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

**Controllers**
- **Wall Buttons**
  - RFWB-10/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-10/G
  - power: 3 V CR 2032 battery
  - 2 channels
  - command LED indication
  - switching with a micro-button

- **RF Touch**
  - Wall (surface), Flush
  - power: 2x 1.5 V AAA batteries
  - setting with up to 40 units
  - 30 detectors
  - central unit with autocontrol
  - colored TFT LCD display, 3.5" (of controllers)

- **Remote Controller**
  - RF Pilot
  - power: 3 V CR 2032 battery
  - setting with up to 40 units
  - intuit temperature sensor
  - scene function
  - status visualization
  - color: OLED display

- **Smart Wi-Fi RF Box**
  - eLAN-RF-Wi-003
  - power: 10–27 V DC/200 mA SEU
  - setting with up to 40 units
  - LAN or Wi-Fi connection
  - managing accounts / backup of projects via web interface
  - routing / rewapper function
  - iOS and ANDROID compatibility

- **RFDEL-71B**
  - type of load: R, L, C, LED, ESL
  - control from external button
  - light scenes function
  - minimum brightness setting
  - overheal protection
  - operated from 32 channels

- **HRESK Switch Unit**
  - RFSA-161B
  - load: 16 A
  - special function for master off and unlock 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
  - option of connecting an external antenna

- **Universal Dimmer**
  - RFSA-168B
  - load: 16 A
  - special function for master off and unlock with PIR and door detectors
  - operated from 32 channels (of controllers)
  - terminal for control from existing button

- **RF Pilot**
  - power: 3 V CR 2032 battery
  - setting with up to 40 units
  - intuit temperature sensor
  - scene function
  - status visualization
  - color: OLED display

- **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
  - option of connecting an external antenna

- **RFTC-150/G**
  - motor control in 3 speeds
  - heating / cooling mode switch
  - master on / off in combination with door/window detectors
  - power: 10–230 V AC/50–60 Hz
  - load: 6x 8 A
  - option of connecting an external antenna

- **RFSD-460**
  - power: 4x 1.5 V AA battery
  - smoke detection: optical light scattering
  - coverage: 4 x 30 m

- **Wireless LED Bulb**
  - RF-White-LED-675
  - power: 100–240 V AC 50/60 Hz
  - luminous flux: 550 lm / 675 lm
  - smallness regulation: 0–100%
  - compatible base: E27
  - durability: 30 000 h.

- **Wall Buttons**
  - LARA
  - into a frame
  - power: 3 V CR 2032 battery
  - 2 channels / 4 channels
  - scenes function
  - command LED indication
  - switching with a micro-button

- **Door Bell**
  - RFWB-10/G
  - power: 3 V CR 2032 battery
  - 2 channels
  - command LED indication
  - switching with a micro-button

- **RF Touch**
  - Wall (surface), Flush
  - power: 2x 1.5 V AAA batteries
  - setting with up to 40 units
  - 30 detectors
  - central unit with autocontrol
  - colored TFT LCD display, 3.5" (of controllers)

- **Remote Controller**
  - RF Pilot
  - power: 3 V CR 2032 battery
  - setting with up to 40 units
  - intuit temperature sensor
  - scene function
  - status visualization
  - color: OLED display

- **Smart Wi-Fi RF Box**
  - eLAN-RF-Wi-003
  - power: 10–27 V DC/200 mA SEU
  - setting with up to 40 units
  - LAN or Wi-Fi connection
  - managing accounts / backup of projects via web interface
  - routing / rewapper function
  - iOS and ANDROID compatibility

- **RFDEL-71B**
  - type of load: R, L, C, LED, ESL
  - control from external button
  - light scenes function
  - minimum brightness setting
  - overheal protection
  - operated from 32 channels

- **HRESK Switch Unit**
  - RFSA-161B
  - load: 16 A
  - special function for master off and unlock 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
  - option of connecting an external antenna

- **Universal Dimmer**
  - RFSA-168B
  - load: 16 A
  - special function for master off and unlock with PIR and door detectors
  - operated from 32 channels (of controllers)
  - terminal for control from existing button

- **RF Pilot**
  - power: 3 V CR 2032 battery
  - setting with up to 40 units
  - intuit temperature sensor
  - scene function
  - status visualization
  - color: OLED display

- **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
  - option of connecting an external antenna

- **RFTC-150/G**
  - motor control in 3 speeds
  - heating / cooling mode switch
  - master on / off in combination with door/window detectors
  - power: 10–230 V AC/50–60 Hz
  - load: 6x 8 A
  - option of connecting an external antenna

- **RFSD-460**
  - power: 4x 1.5 V AA battery
  - smoke detection: optical light scattering
  - coverage: 4 x 30 m

- **Wireless LED Bulb**
  - RF-White-LED-675
  - power: 100–240 V AC 50/60 Hz
  - luminous flux: 550 lm / 675 lm
  - smallness regulation: 0–100%
  - compatible base: E27
  - durability: 30 000 h.
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-White-LED-675
- Window Open Detector: RFWD-100
- Main Light: RF-White-LED-675
- Lamp Bulb: RF-White-LED-675
- Main Light: RF-White-LED-675
- Smart Card Holder: RFGCH-31/W
- Multifunctional in front of Controller: RFPCR-31/G
- Electric Heater: RFSA-166M
- Convector: RFATV-1
- Radiator: RFTHR-40
- Mirror Light LED Strip: RFMD-100
- Wireless Switch Unit: RFSA-61B
- Fan-coil (3 speeds): RFDA-73M/RGB
- Thermoregulator: RFTC-150
- Control Panel: RFSA-66M
- Bell: RFSA-66M
- 4 Buttons Switch: RFWB-40
- Radio & Music Player
- Door Open Detector: RFWD-100
- Door Lock
### Product dimensions

![Diagram of product dimensions]

### Installation possibilities

#### 1) Flush mounted

Units are installed into installation box with spacing of 65 mm.

- EST3
- WSBB3-20
- GSB3-40
- WSBB3-40H
- GSB3-80
- TI3-10B
- WSBB3-60
- GHR3-61
- WSBB3-80
- IDRT3-1

#### 2) DIN Rail mounted

On DIN rail according to EN 60715.

- SA3-02M
- DCDA-33M
- LBC3-02M
- BPS3-02M
- EMDC-64M
- CU3-02M
- BPS3-02M
- GSM3-02M
- CU3-02M
- MI3-02M
- IM3-140M
- SA3-012M
- SA3-04M
- TIS-60M
- DAC3-04M
- SA3-06M
- ADC3-60M
- DA3-22M
- PS3-100/NELS

#### 3) Mounted to or in the cover of appliance

- SA3-01B
- SA3-02B

#### 4) Mounted to or in the installation box

In an installation box or built in to the device.

- SA3-01B
- DAC3-04B
- SA3-02B
- IM3-80B
- IM3-20B
- TIS-10B
- IM3-40B
- TIS-40B
- JA3-02B/DC
The company ELKO EP has been one of the leading European players in the field of residential and industrial electrical devices for more than 25 years. Since 2007, the company has been developing and producing its own system of Smart Home & Building Solutions called iNELS.

At present, ELKO EP employs nearly 240 people, exports to 70 countries around the world and already has 16 foreign branches. The company is justly proud to produce its own components, and to have its own development and innovation of new products. It is also able to offer its customers instantaneous distribution and rapid, flawless service. The company became the Company of the Year in 2012 and earned its place as one of the TOP 100 Czech companies.

www.inels.com
High-level technology...

- more than 85% share formed by SMD components
- 2x fully automated Samsung SMD production lines
- capacity: 35,000 components/hour
- the minimum chip size is 01005 (0.4x0.2 mm), the maximum size is qfp 55x55 mm
References

**Pest-Buda Bistro & Hotel**
Budapest / Hungary
- 10 rooms with unique luxury equipment with unique copper lamps and unique heating & air-conditioning

**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

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

**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

**Farm Motel**
Poličí / 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

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

**Three sons and daughter**
Skihidnica / Ukraine
- 5-star hotel
- 179 fully automated rooms powered on INELS
- automation of lighting, heating, cardreaders
- in every room there is SAJ-012M, IM-140M, WSB3-40

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

**Alexandrovski**
Odessa / Ukraine
- 25 rooms with fully automation and dispatching
- integration with Samsung central conditioning

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

**Alexandrovski**
Odessa / Ukraine
- 25 rooms with fully automation and dispatching
- integration with Samsung central conditioning

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

**Alexandrovski**
Odessa / Ukraine
- 25 rooms with fully automation and dispatching
- integration with Samsung central conditioning

More on:
www.inels.com