

Hospitality Solution

Guest Room Management System



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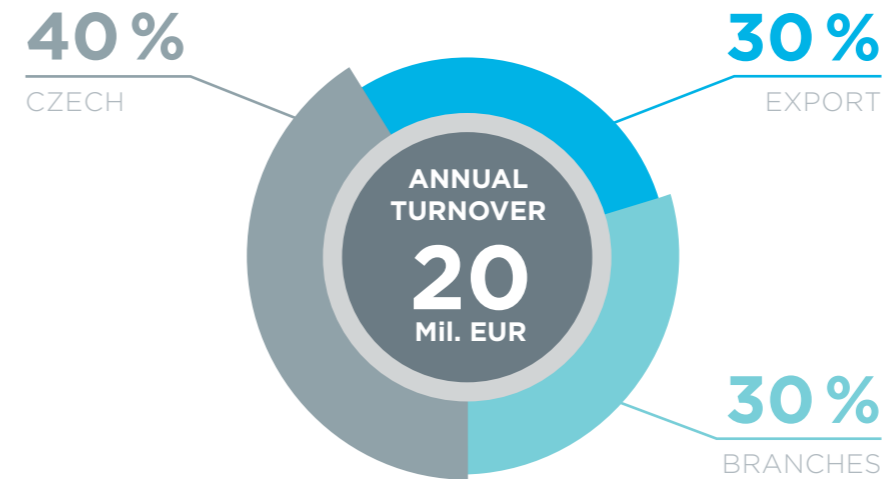
ELKO EP, Holding

The company ELKO EP has been one of the leading European players in the field of residential and industrial electrical devices for more than 24 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 13 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.



Facts and Stats



13
BRANCHES
OVER THE WORLD

70
EXPORTING
COUNTRIES

240
EMPLOYEES

5 000
iNELS INSTALLATION

12 000 000
MANUFACTURED PRODUCTS

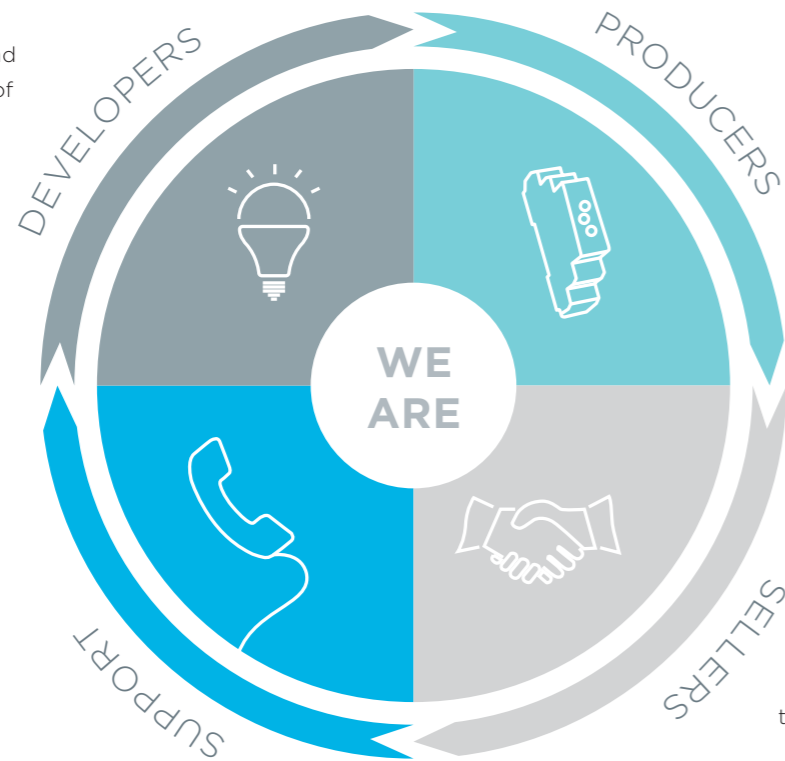


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Everything under one roof

Research & development

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



Support

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

Manufacturing

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

Sales

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

High-level technology...

- more than 85% share formed by SMD components
- 2 x 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



Hotel Merit Premium

Kyrenia, Cyprus

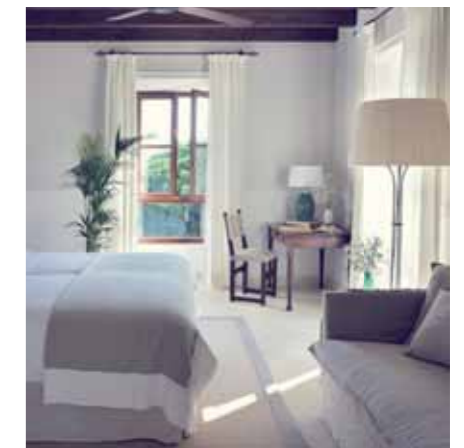
- all rooms are equipped with smart electro-installation
- this is controlled by RFSA units that switch set modes
- when designing a system, the emphasis was placed on the central function (MASTER switch)



Wyndham Grand

Istanbul, Turkey

- more than 3 000 lighting circuits are controlled through the DALI protocol
- another thousand lighting circuits are controlled via DA3-22M units
- the brain of the whole installation is the central unit - CU3-01M



Cal Reiet Santanyi

Mallorca, Spain

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



Wellness Chateau

Petrovice, Czech Republic

- iNELS system controls:
 - 47 dimmable light circuits,
 - 63 switching light circuits
- control lighting SPA, swimming pools, ceramic loungers



Promeko

Olomouc, Czech Republic

- 27 apartments, 4 commercial
- heating, shutters, HVAC control
- video door-phone, intercom
- motion detectors and automatic light intensity in the communal areas



Tegra House

Vilnius, Lithuania

- the wood house is built in the passive standard ventilation and shielding control standart
- iNELS controls HVAC and shielding technologies, IP cameras are also included

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.

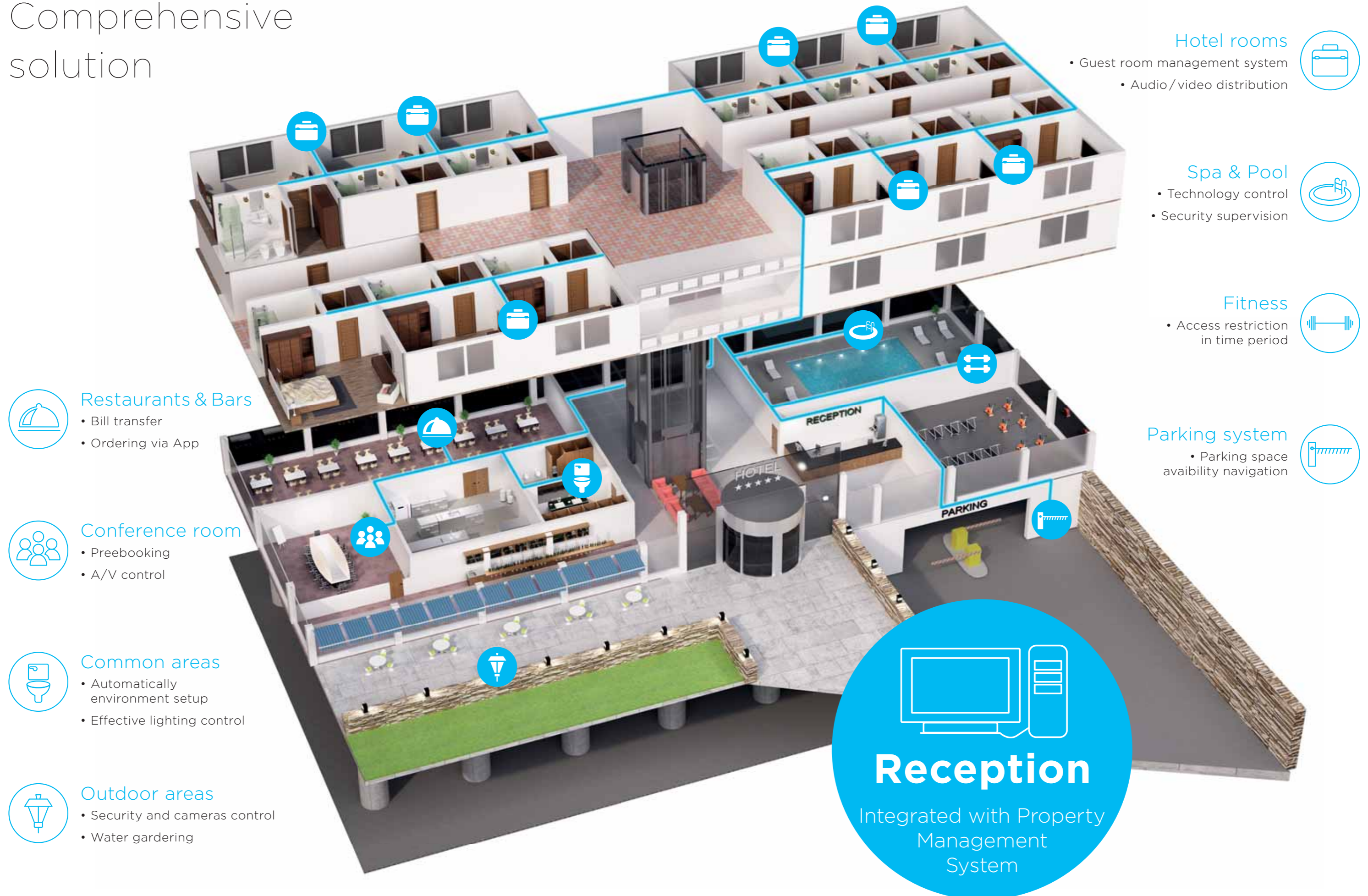
Design

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.

Comprehensive solution





Glass Card Holder

Can recognize correct card in the holder & 3 most common buttons.

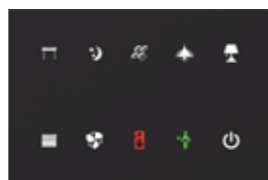
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Elko Hotel Touch

Fully configurable 3.5" touch screen with TFT display in variety frames design.

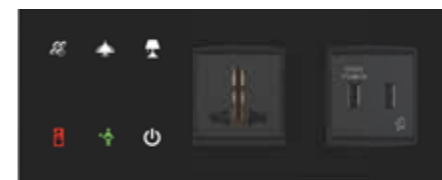
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Glass Switch Panel

10 buttons with acoustic and vibration feedback and RGB LED status.

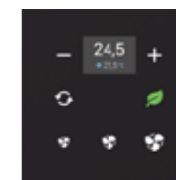
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Glass Bedside Panel

Fully configurable panel with buttons and power/ USB/ media sockets.

page: 14



Glass Room Thermoregulator

HVAC controller allowed control fancoils & A/C systems.

page: 18



Music Player

Radio and Music network player from central storage or local source.

page: 21



Elko Hotel Touch

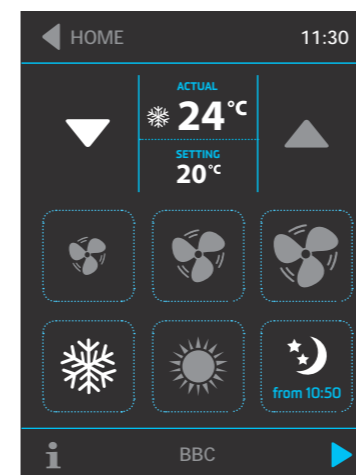
EHT3

Multifunctional touch panel

Control whole room from one place

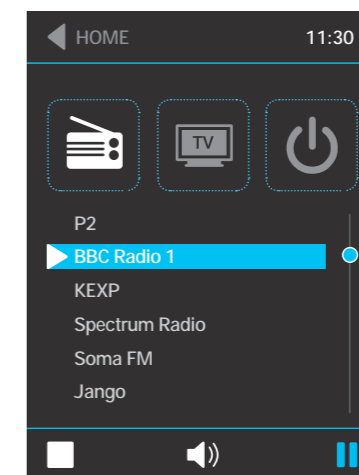
Fully configurable 3.5" touch screen with TFT display in variety frames design. Allows the control of all iNELS Hospitality features including multimedia. Fully configurable allowing the making of personalised screens for control lights, shutters, HVAC, audio, video and TV.

Make up rooms, do not disturb and laundry buttons included. Variable choice from the many frame designs and subframes under LOGUS⁹⁰ design (see page 28).



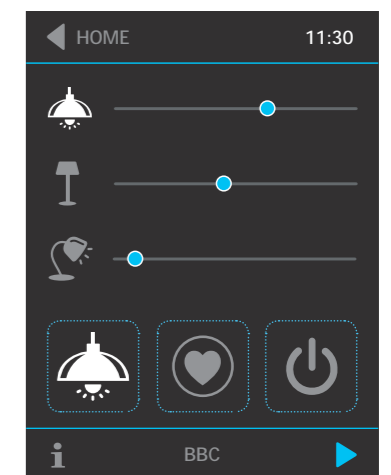
HVAC control

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

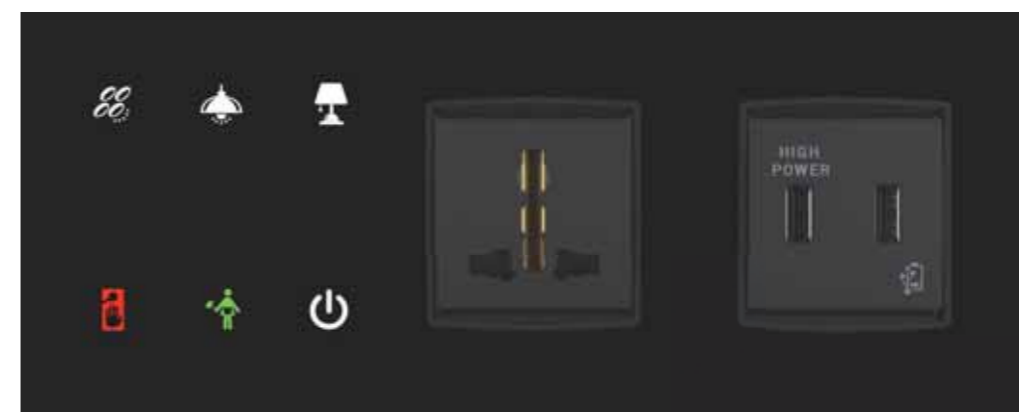


Bedside panel

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.



8 buttons with indicator

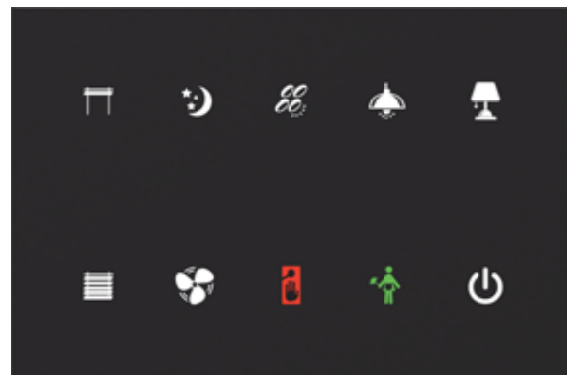
AC power socket (variable)

2x USB sockets (variable)

Control panels

Wider range of room controllers in variable designs

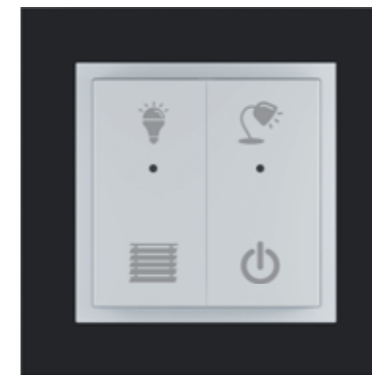
Fully customisable controllers. Finished frames in glass or plastic. 4, 6, 8 and 10 buttons version available. Symbols and logo engraving by laser.



Glass Switch Panel

GSP3-100/B

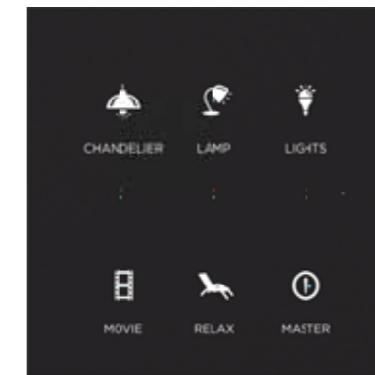
Luxury glass touch control with 10 buttons is available in elegant black and white. Switches also sense the ambient lighting and offer a choice of symbols.



Wall Switch Button

WSB3-20/WSB-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/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.



Digital Thermoregulator

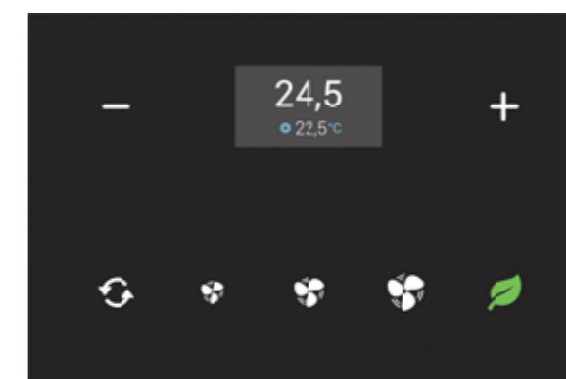
IDRT3-1

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.

Heating, ventilation & air-conditioning

Keep yourself comfortable

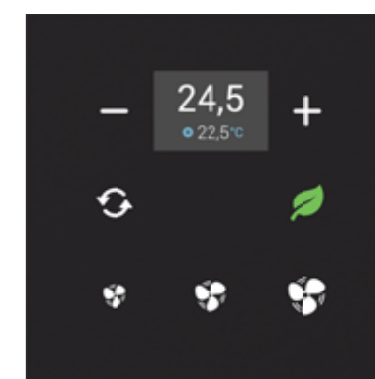
With iNELS you have always more possibilities how to setup and control temperature in the room: digital thermostat, glass HVAC controller, App in phone or tablet or via TV.



Glass Thermoregulator Panel

GTP3-50/B

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



Glass Room Thermoregulator

GRT3-50/B



Audio distribution

Music in all corners

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



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

Audiozone

iMM AZ-R

Stand alone IP audiozone for hidden installation. Connect via LAN, control from touch panel, app or TV. Requires loudspeakers with amplifier.

Videozone

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.

Even more you can use a standard TV with iMM Player as an option.
Connection to LAN only.



Lights



Temperature control



Music



TV



Movie on demand



Hotel bill



iMM Client

Multimedia player connected to TV through HDMI and to iNELS via LAN. On screen navigation leads to features control by gyrosopic mouse or app in touch panel.



Movie | TV | Music

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

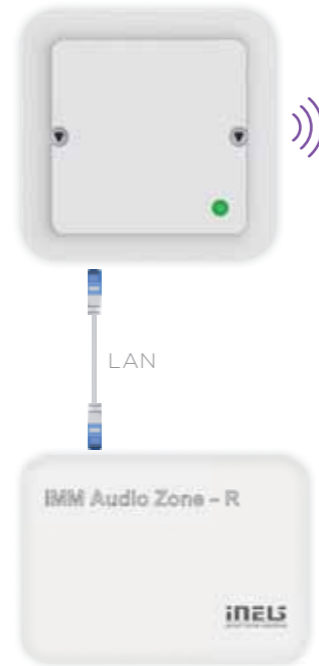


Temperature control

iMM allows also temperature control - on the same way as room thermostat. Lighting and devices control as standart.



Aperio
AH-40
Assa Abloy HUB



Connection server

VingCard
ASSA ABLOY
Saflok dorma kaba



VingCard Flex
Electronic Lock

Wireless Assa Abloy locker



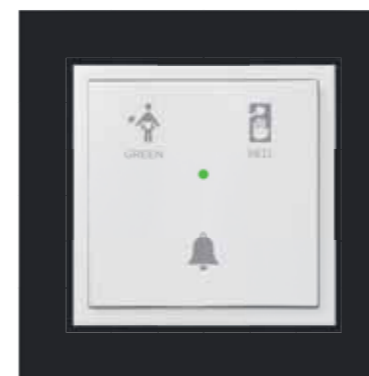
Access control

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.

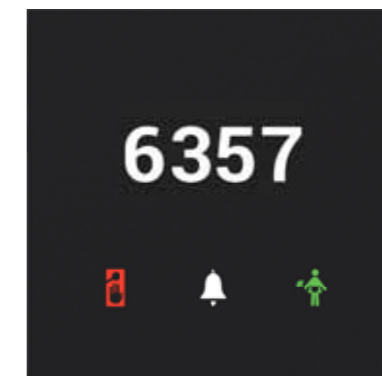
Second option is integrated VingCard (Assa Abloy) lockers which communicate wirelessly with hub and afterwards with iNELS Connection Server. This solution also provides information about locker activity to iNELS.



Wall Card Reader

WMR3-21/S

The RFID card reader with bell button and LED indicator of Don't disturb/Make up room status. Various design of cover and frames under LOGUS⁹⁰ design.



Glass Card Reader

GCR3-11/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.



Glass Card Holder

GCH3-30/B

In-room smart card holder with RFID reader which detects correct card and eliminates fake cards. Optional 3 buttons: Don't disturb/Make up Room/Master Off.



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 iMM 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.

Customization

Standart Controllers

We bring you switches, sockets and accessories in standard, plastic or metallic design, but you will be impressed most by enchanting luxury design of purely natural frames.



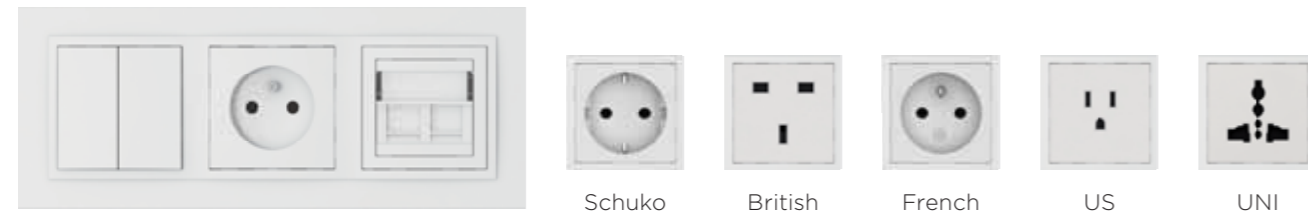
Wall Push Button - 2 buttons Wall Push Button - 4 buttons Wall Push Button - 6 buttons



Digital Thermoregulator Card Reader Card Holder

Bedside Panel

Configure bedside panel according to your request.



Schuko British French US UNI

Broad selection of color variations (design LOGUS⁹⁰)

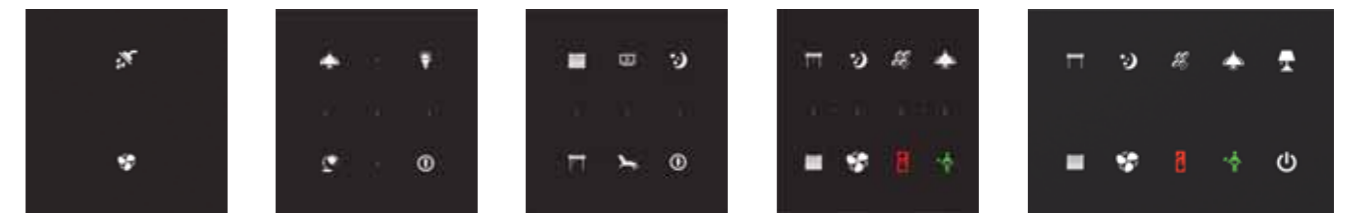


Plastic Metallic plastic Color plastic Color plastic Crystal
Metal Metal Wood Wood Stone

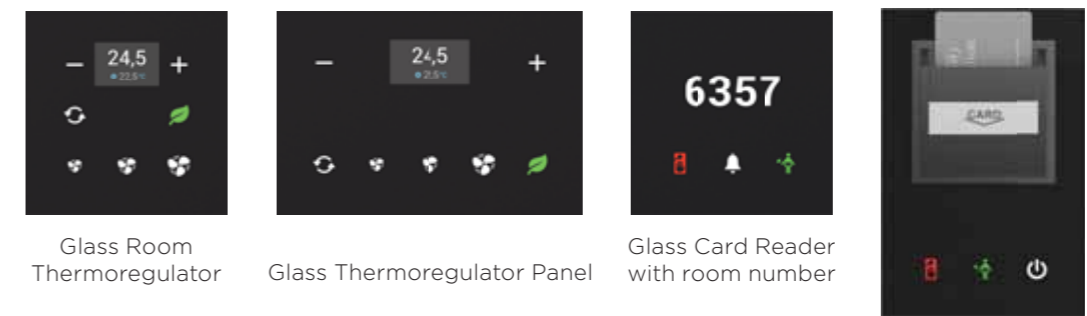
Customization

Glass Touch Controllers

We bring you switches, sockets and accessories in black or crystal glass.



Glass Switch Button - 2 buttons Glass Switch Button - 4 buttons Glass Switch Button - 6 buttons Glass Switch Button - 8 buttons Glass Switch Panel - 10 buttons



Glass Room Thermoregulator Glass Thermoregulator Panel Glass Card Reader with room number Glass Card Holder

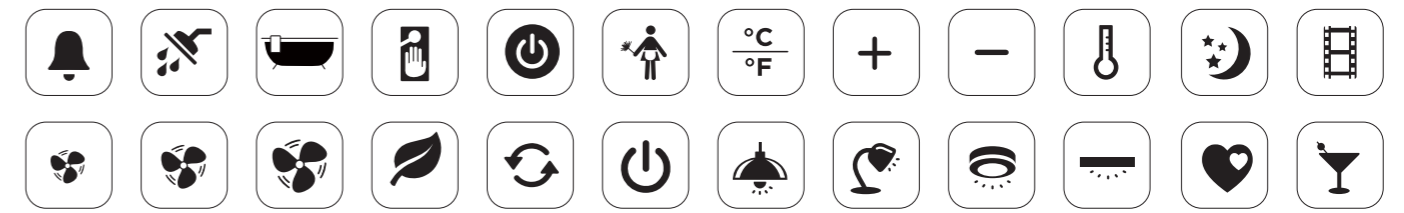
Glass Bedside Panel

Configure bedside panel according to your request.



LAN USB Schuko French British Multistandard

Standard symbols



Customization

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



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



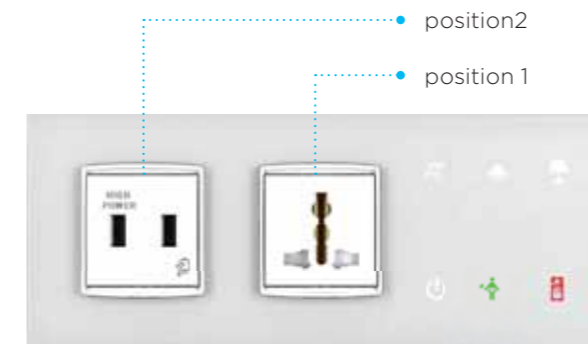
Data & Audio/Video (Number in brackets is original Vimar product code.)



Glass Bedside Panel

Configure bedside panel according to your request.

L (left variant)



GBP3-60/WL-26W-20W

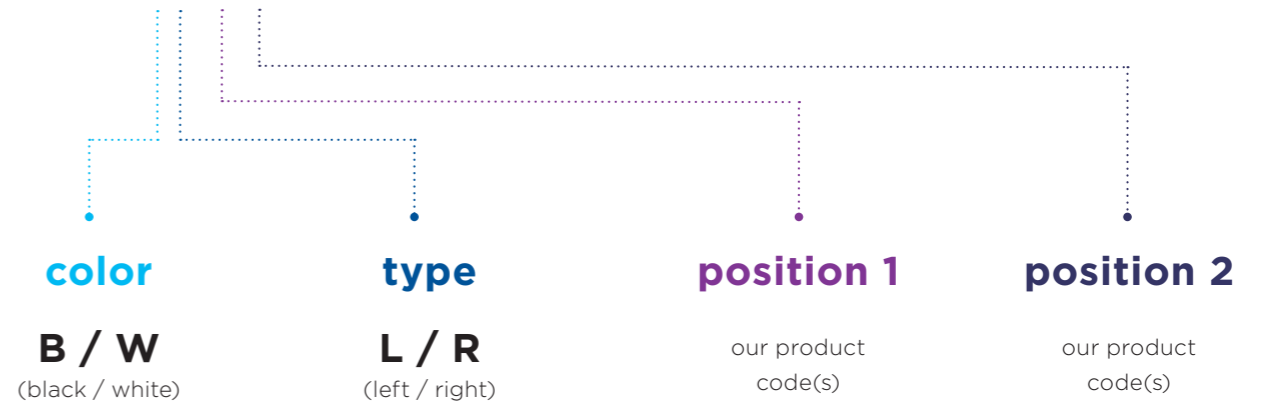
R (right variant)



GBP3-60/BR-26B-20B

Labeling system

GBP3-60/xx-x-x



Classic plate








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

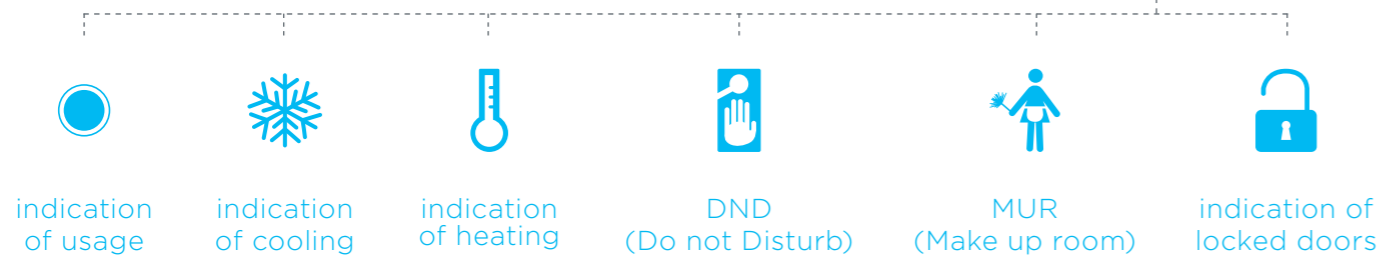
iNELS3 Designer & Manager (iDM3)

The iDM3 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.

iDM3 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 iDM3 are exported all objects used in communication between BMS and iNELS.

ROOM 1

temp.	actual	23,5°
	set	22,4°
cooling		 
  		



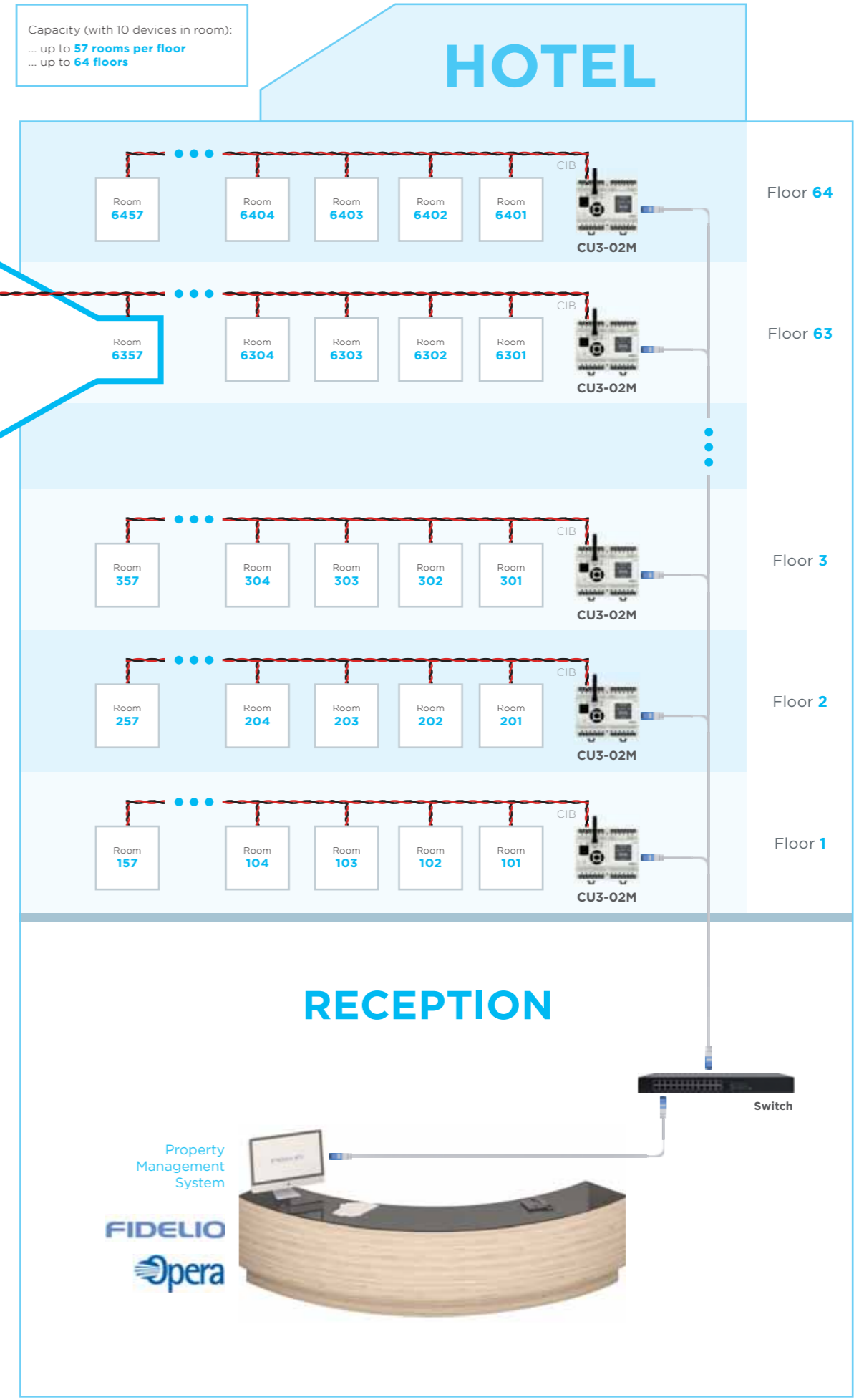
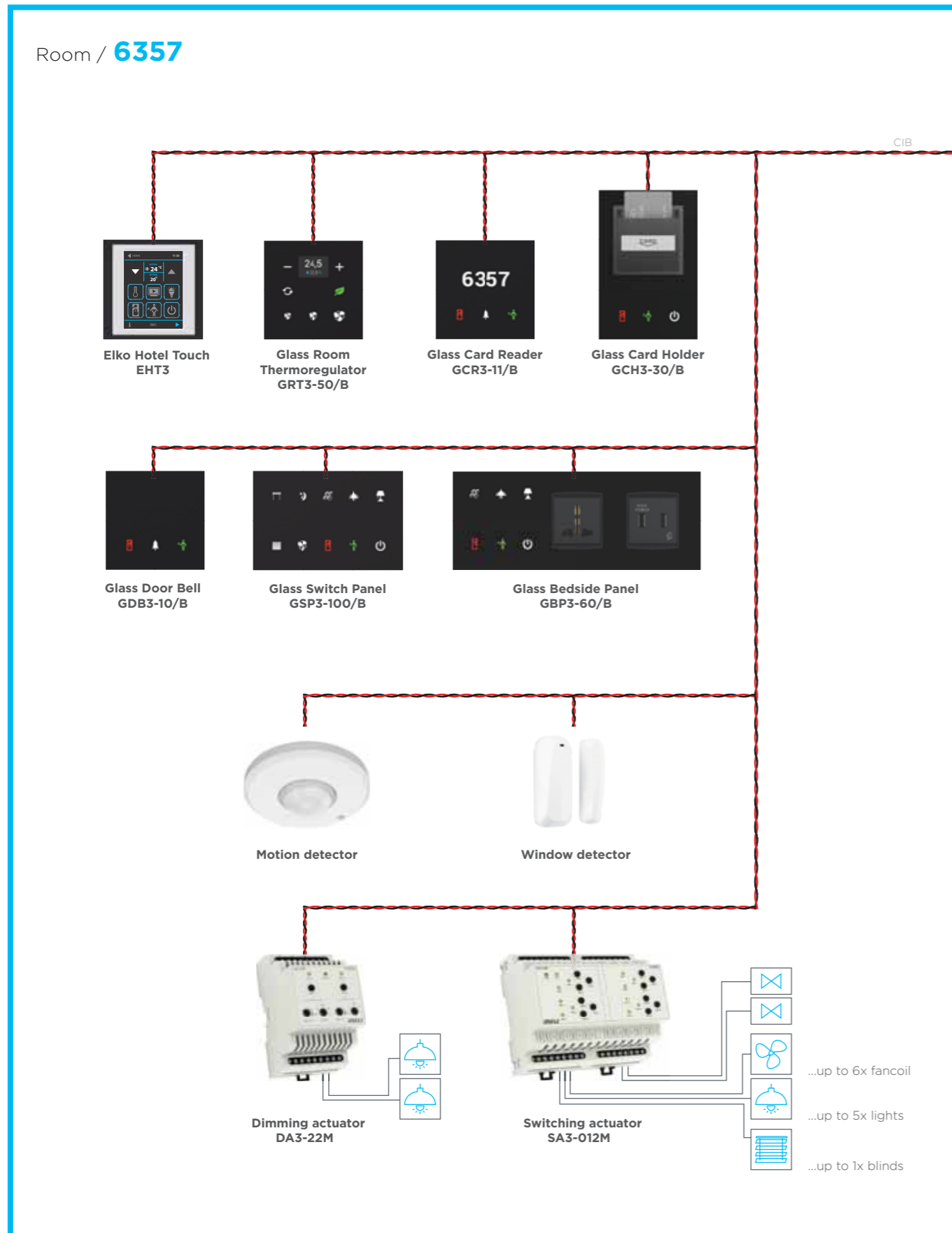
Building Management System (BMS)

Buildings today are equipped with a range of technologies and systems, these technologies use different communication protocols. However, this fact does not correspond to the trend of integrating all scenarios and connected technologies or even individually interconnected technology between them to elicit the technologies into one universal user interface from which you can extract information.

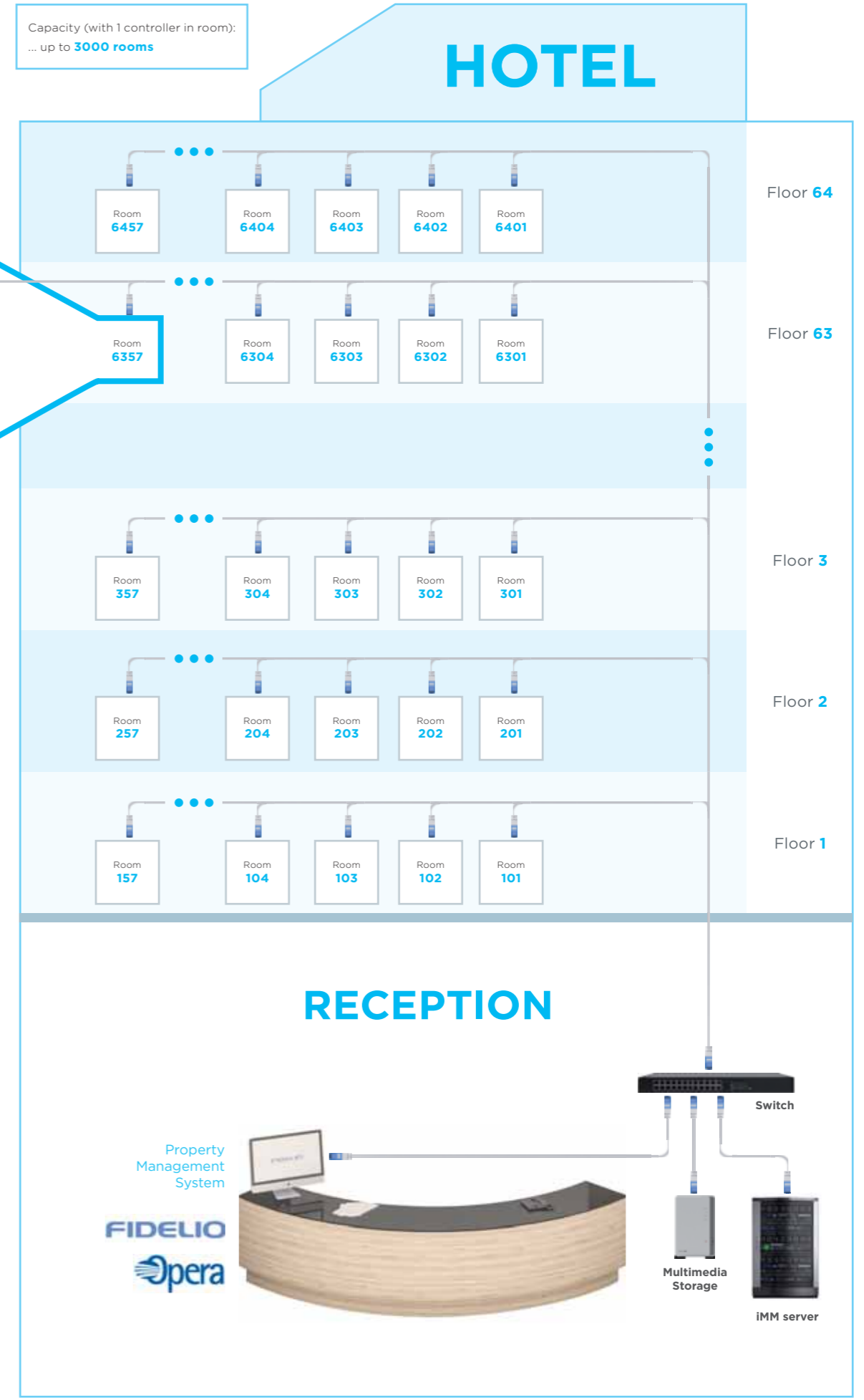
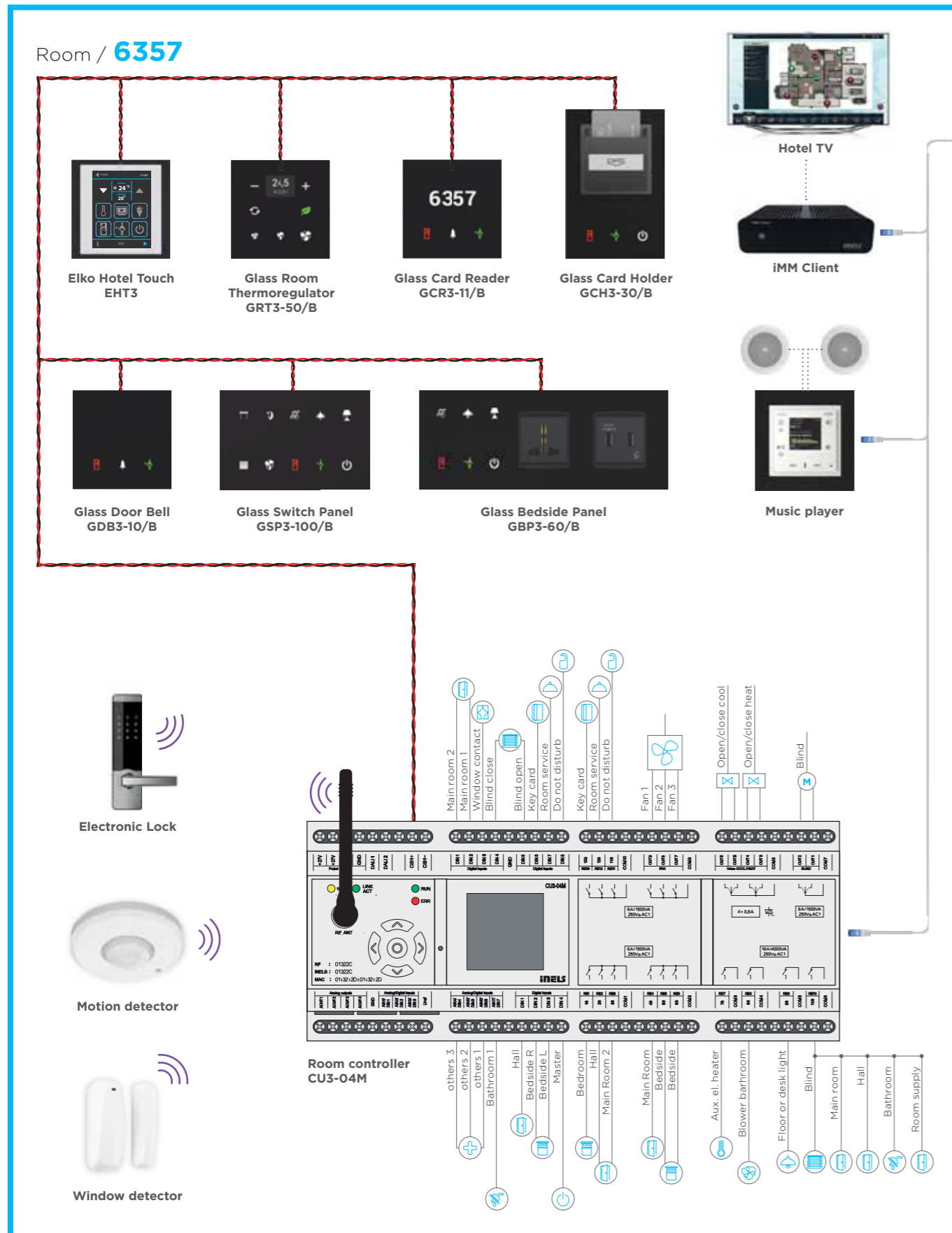
On the market such integration platforms are available; they can connect and interconnect the protocols of tens or hundreds of different manufacturers of different technologies. The iNELS system is not an exception and is equipped with a universal protocol that allows it's integration into various iNELS BMS systems. The big advantage of the protocol is its simplicity while maintaining a huge range of communication possibilities between BMS and iNELS. These features make it a very easy creating iNELS extensive lighting control systems or Guest Room Management Systems (GRMS), bringing users a number of benefits.



Option 1: Central unit for each floor



Option 2: Room controller for each room

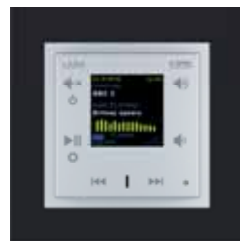


We can dim anything!

iNELS provide dimmers for all kind of light sources

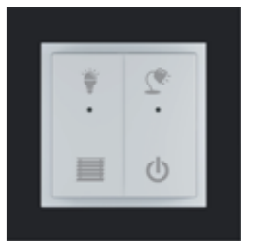
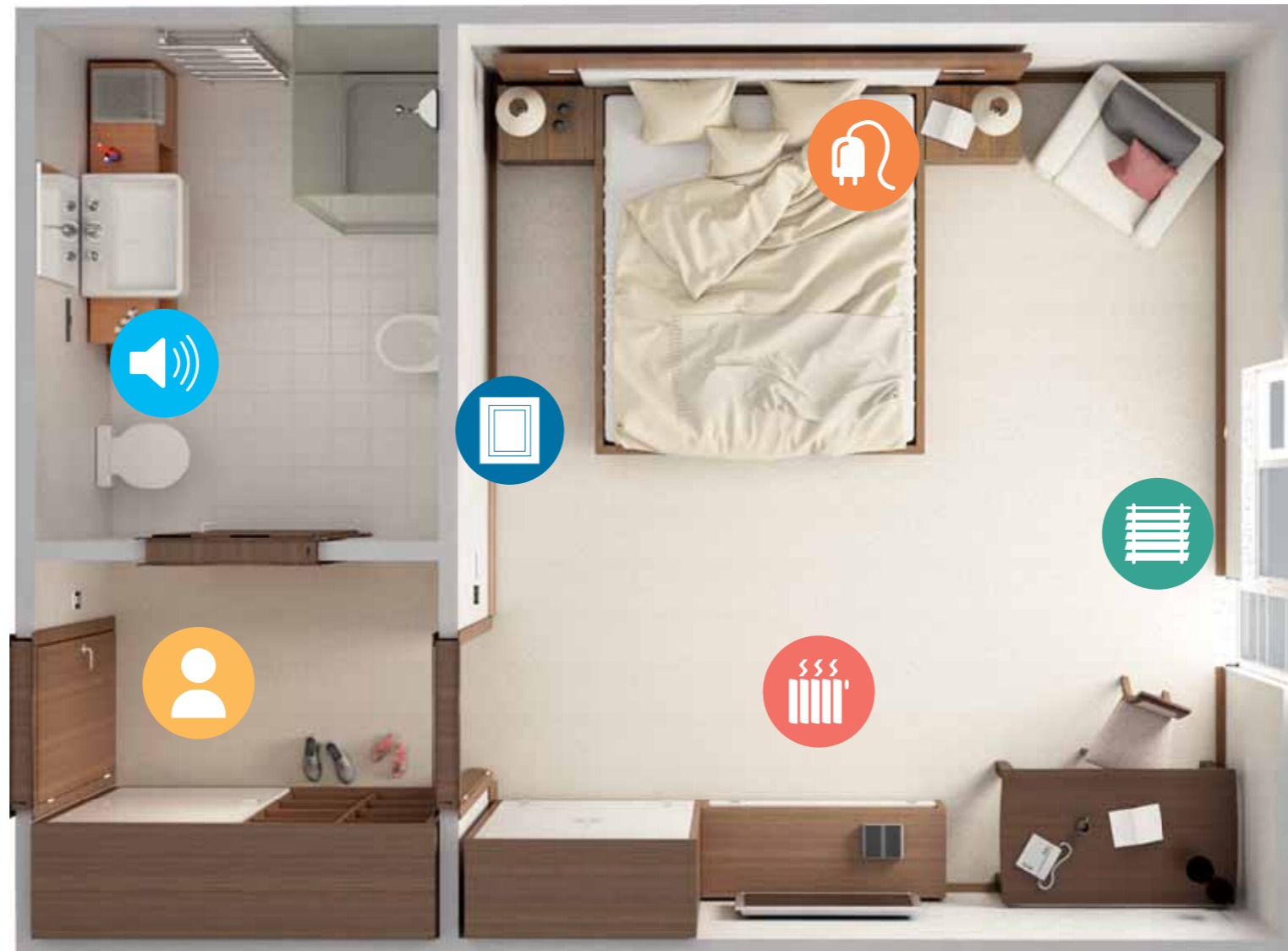
	LED bulb		LED spotlights				LED panels			LED downlight				LED / RGB strips											
	DLB-E27-806-2K7	DLB-E27-806-5K	DLSL-GU10-350-3K	LSL-GU5.3-280-3K	LP-3030-3K	LP-6060-3K	LP-6060-6K	DL-155-950-3K	DL-205-1200-3K	LED strips 7,2W	LED strips 14,4W	LED strips 19,2W	LED strips 28,8W	RGB strips 7,2W	RGB strips 14,4W										
	yes/no	number	yes/no	number	yes/no	number	yes/no	number	yes/no	number	yes/no	number	yes/no	number	yes/no	number	yes/no	number	yes/no	number	yes/no	number	yes/no	number	
SMR-M	✓	11	✓	11	✓	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LIC-1	✓	21	✓	21	✓	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DIM-14	✓	36	✓	36	✓	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DIM-15	✓	21	✓	21	✓	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DIM-6	✓	50	✓	50	✓	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RFDSC-11 / RFDSC-71	✓	21	✓	21	✓	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RFDEL-71B	✓	11	✓	11	✓	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RFDA-73M/RGB	-	-	-	-	-	-	✓	3x10	-	-	-	-	-	✓	3x8m	✓	3x4m	✓	3x5m	✓	3x4m	✓	20m	✓	10m
DA3-22M	✓	2x29	✓	2x29	✓	2x60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RFDAC-71B	-	-	-	-	-	-	-	-	✓	50	✓	50	✓	50	✓	50	-	-	-	-	-	-	-	-	-
LBC3-02M	-	-	-	-	-	-	-	-	-	✓	50	✓	50	-	-	-	-	-	-	-	-	-	-	-	-

Wireless Hotel Room Energy Saving Kit



LARA audio control

LARA is choice if you want to listen music in the room or bathroom.
LARA is internet radio, player of your favorite music from your smartphone or hotel central storage of music.



Wireless switch

Thanks to the flat base of wireless switch is easy to put it on the nightstand, wall or glass wall.
Wireless switch RFWB-40/G has a function MASTER OFF (channel number 3).
When the button is pressed it will turn off all the lights and a fan in the room.
After short pressing the light is switched on and off, holding down can regulate brightness.



Access control

After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.
In case that the guest is in the room then motion detector RFMD-100 gives a permanent wireless ON for main light.
If guest is leaving the room and is closing door where was installed doors detector RFWD-100 then it sends a command „delay OFF“ (set time 3 minutes) and the light turns off.



Touch panel

Design element with a touch of luxury that enlivens every interior. Used for scene control, temperature, and lighting colour.
Hotel option also controls the music settings.



Temperature control

Combination of digital thermoregulator RFTC-50/G and switching unit RFSA-66M (6 outlets) 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.
RFTC control the critical temperature in the room if is higher automaticly switch on the aircondition.



Shutters & curtains

Switching unit for blinds (RFJA-12B) is used for controlling curtains, awnings and blinds.
It is possible to use wireless switch to control it.
Unit for controlling curtains can be combined with wireless twilight switch for automatic regulation of curtains.



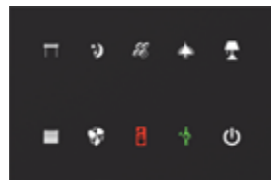
Glass touch controllers (panels)



Glass Switch Button

GSB3-40/GSB3-60/GSB3-80

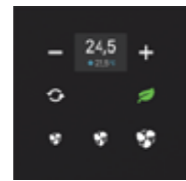
- Customizable touch control solution for lighting control and other technologies in different scenarios e.g. reading books, relaxing, watching TV, Master Off.



Glass Switch Panel

GSP3-100/B, GSP3-100/W

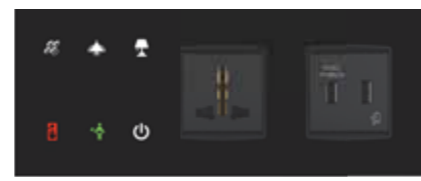
- Luxury glass touch control in three versions with four, six or eight buttons are available in elegant black and white. Switches also sense the ambient lighting and offer a choice of symbols.



Glass Room Thermoregulator

GRT3-50/B, GRT3-50/W

- Temperature glass controller for simple temperature setup. Fan and mode control. Oled display with actual and setup temp. value. BUS connected.



Glass Bedside Panel

GBP3-60/B, GBP3-60/W

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



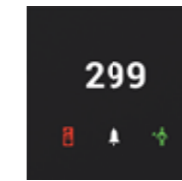
Elko Hotel Touch

EHT3

- touch screen panel with 3.5" display
- controls temperature, lighting, shading, scenes
- LOGUS⁹⁰ design
- rated current 150 mA from CIB



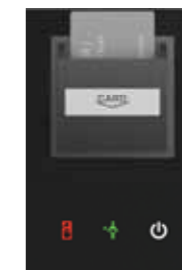
Access controll



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.



Smart Card Holder

GCH3-30/B, GCH3-30/W

- In-room card holder with RFID reader which detects correct card and eliminates fake cards. Optional 3 buttons: Don't disturb / Make up Room / Master Off.



Standart (classic) controllers



Wall Push button

WSB3-20/WSB3-20H

- 2 push-buttons, design LOGUS⁹⁰
- integrated temperature sensor
- one colors signalization LEDs
- rated current 25 mA from CIB



Wall Push button

WSB3-40/WSB3-40H

- 4 push-buttons, design LOGUS⁹⁰
- integrated temperature sensor
- two colors signalization LEDs
- rated current 25 mA from CIB



Digital thermoregulator

IDRT3-1

- digital thermo-regulator
- measures and controls temperature in room
- rated current 20 mA from CIB
- design LOGUS⁹⁰



Bedside panel

- design LOGUS⁹⁰
- configure according to your request



Elko Hotel Touch

EHT3

- touch screen panel with 3.5" display
- controls temperature, lighting, shading, scenes
- LOGUS⁹⁰ design
- rated current 150 mA from CIB



Access controll



Wall card reader

WMR3-21

- RFID card reader 13.56 MHz
- NFC ready
- 2 push-buttons, LOGUS⁹⁰ design
- rated current 50 mA from CIB



Card holder

90731 TBR

- After inserting hotel card to card switches it will activate automatic regulation of the lights in the room.



System units



Central unit

CU3-01M

- basic element of the system
- 2x CIB BUS, 1x EBM BUS
- ethernet 100 Mbps
- 2x AI, 4x DI, 1x DO



Central unit

CU3-02M

- basic element of the system
- 2x CIB BUS, 1x EBM BUS
- ethernet 100 Mbps
- 2x AI, 4x DI, 1x DO
- wireless submodul



Guest Room Controller

CU3-04M

- 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 CIB BUS
- communicates with the central unit via EBM



DALI/DMX gateway

EMDC-64M

- iNELS to DALI/DMX converter
- controls up to 64 DALI or DMX lighting ballasts
- communicates with the central unit via EBM



GSM communicator

GSM3-01M

- GSM gateway for communication between iNELS and GSM mobile phones
- supports up to 512 number
- communicates with the central unit via EBM



Bus separator

BPS3-01M/BPS3-02M

- used for impedance segregation of bus from the power supply
- supports 1x/2x CIB BUS



Power supply

PS3-100/iNELS

- power supply 100 W
- supply voltage 100–250 V AC
- output 1: 27,6 V / 3,6 A
- output 2: 12,2 V / 0,35 A

Switching actuators



Switching actuator

SA3-02M

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



Switching actuator

SA3-04M

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



Switching actuator

SA3-06M

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



Switching actuator

SA3-012M

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



Switching actuator

SA3-01B

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



Switching actuator

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 CIB



Shutter actuator

JA3-02B/DC

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

Dimming actuators



Dimming actuator

DA3-22M

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



Dimming actuator

LBC3-02M

- two-channel actuator for fluorescent lamps
- analog outputs automatically control relays
- 2x 0(1)–10 V, 2x changeover contacts 16 A/AC1
- rated current 60 mA from CIB



Dimming actuator

DCDA-33M

- three-channel actuator for LED controlled by variable current
- dimming load 12–24 V DC
- controlled via CIB, DALI or DMX



Dimming actuator

RFDA-73M/RGB

- dimmer for (RGB) LED strips
- dimming load 12–24 V DC
- maximum load 3x 5 A
- possibility to control via 0(1)–10 V (from DAC3 units)

Converters



Analog-digital converter

ADC3-60M

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



Digital-analog converter

DAC3-04B

- generates analog voltage signal
- 4x analogue output
- controls e.g. RFDA-73M/RGB
- rated current 50 mA from CIB



Digital-analog converter

DAC3-04M

- generates analog voltage signal
- 4x analog output
- controls e.g. RFDA-73M/RGB
- rated current 50 mA from CIB

Input units



Binary input unit

IM3-140M

- input module for connecting buttons in any design, detectors etc.
- 14x digital inputs
- rated current 25 mA from CIB



Binary input units

IM3-20B/IM3-40B

- input modules for connecting buttons in any design, detectors etc.
- 2x/4x digital inputs
- rated current 20 mA from CIB



Binary input unit

IM3-80B

- input modules for connecting buttons in any design, detectors etc.
- 8x digital inputs
- rated current 20 mA from CIB



Temperature input

TI3-10B

- for connecting temperature sensor
- 1x TC, TZ, Pt1000, Pt100 or Ni1000
- rated current 20 mA from CIB



Temperature inputs

TI3-40B

- for connecting temperature sensors
- 4x TC, TZ, Pt1000, Pt100 or Ni1000
- rated current 20 mA from CIB



Temperature inputs

TI3-60M

- for connecting temperature sensors
- 6x TC, TZ, Pt1000, Pt100 or Ni1000
- rated current 45 mA from CIB

AUDIO/VIDEO



iMM Client

iMM Client

- iMM is used as a Videozone for playing movies, music or watching TV
- understands to protocols of 3rd party devices



Connection Server

Connection Server

- understands to protocols of 3rd party devices
- transfers the communication to the iHC apps



LARA Radio

LARA

- plays the stream of internet radios and music from NAS or external source
- equipped with a digital internal amplifier 2x 10 W
- the possibility to connect with external amplifier
- power over Ethernet, design LOGUS⁹⁰



LARA Intercom

LARA

- besides playing the music or the radio, LARA Intercom allows audio and video communication with IP Door phone
- the possibility of communication with other LARA units
- colour OLED display 128 x 128 px



iMM Audio Zone-R

iMM AZ-R

- server as an Audiozone player
- plays the music from the central data storage
- equipped with 3,5 mm jack audio output for connection to the amplifier



eLAN IR Box

eLAN-IR-003

- smart box for controlling devices equipped with an IR receiver through apps
- controls televisions, amplifiers, projectors satellite receivers A/C etc.
- 3 IR transmitters, up to 100 commands



Smart RF Box

eLAN-RF-003

- smart box for controlling iNELS RF Control units
- through Smart box RF units can be integrated with BUS units to one iHC app
- LAN (wired) connection



Smart RF Box

eLAN-RF-Wi-003

- smart box for controlling iNELS RF Control units
- through Smart box RF units can be integrated with BUS units to one iHC app
- LAN or Wifi connection

Air conditioning



A/C controllers

CoolMasterNet

- communication bridge that seamlessly connects advanced VRF/Split Air Conditioning Systems and iNELS



LG A/C controllers

PI485

- gateway that provides communication between LG Outdoor Units and iNELS
- there are two types with support up to 16 or 48 indoor units

Weather stations



Weather station

Clima sensor

- provides up to 8 voltage analogue signals about weather conditions
- a full range of applications
- wind speed, temperature, humidity, twilight, precipitation, brightness (east, south, west)



Weather station

Giom

- a simpler version of IP weather station
- wind speed, wind direction, temperature, relative humidity, absolute pressure, altitude, Windchill, absolute humidity, dew point

Detectors



Smoke detector

RFSD-100

- power: 2x 1,5 V AAA battery
- smoke detection: optical light scattering
- autotest



Motion detector

RFMD-100

- power: 1x 1,5 V AAA battery
- detection angle 120°
- shot length 12 m (13.12 yd)



Window detector

RFWD-100

- power: 2x 3 V CR2032 battery
- opened window/door detection
- battery status indication

IP cameras



IP camera

iNELS Cam

- power: 5 V DC adapter
- resolution: 640 x 480 px
- night light
- up to 10 cameras in app

Accessories iNELS



Thermodrive

TELVA 230 V

- operating voltage: 230 V, 50/60 Hz
- stopping force: 100 N ±5%
- dimension h/w/l: 55+5 x 44 x 61 mm (2.17 + 0.2 x 1.73 x 2.40 in)



Thermodrive

TELVA 24 V

- operating voltage: 24 V AC, 50/60 Hz
- stopping force: 100 N ±5%
- dimension h/w/l: 55+5 x 44 x 61 mm (2.17 + 0.2 x 1.73 x 2.40 in)



Flood Probe

FP1

- the water leakage sensor warns against flooding of the bathroom
- length of cable 3 m (3.3 yd)



Temperature sensors

TC

- range: 0—70 °C (32—158°F)
- sensor: NTC 12 K 5%
- TC-0 - l. 110 mm (4.33 in)
- TC-3 - l. 3 m (1.42 yd)
- TC-6 - l. 6 m (1.75 yd)
- TC-12 - l. 12 m (13.12 yd)



Temperature sensors

TZ

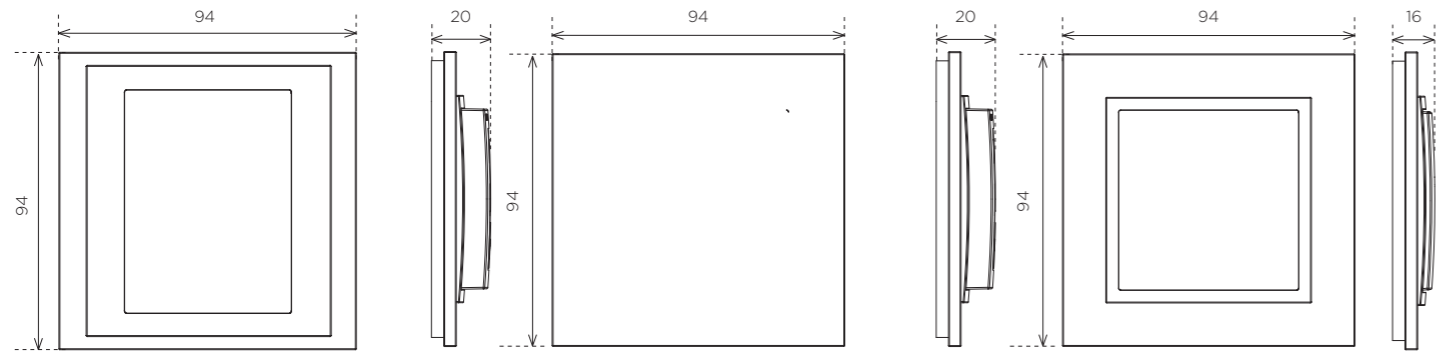
- range: -40—125 °C (-40—257°F)
- sensor: NTC 12 K 5%
- TZ-0 - l. 110 mm (4.33 in)
- TZ-3 - l. 3 m (1.42 yd)
- TZ-6 - l. 6 m (1.75 yd)
- TZ-12 - l. 12 m (13.12 yd)



iNELS BUS Cable

- cable has been designed specifically for usage in iNELS system
- it provides the best parameters for wiring of installation bus
- twisted pair of wires, diameter AWG20

Product dimensions

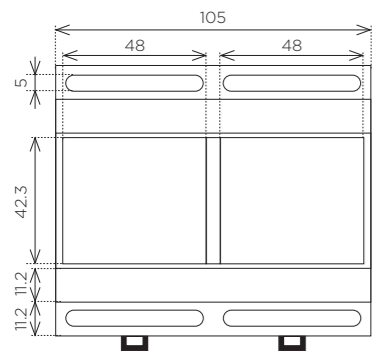


EST3

GSB3-40 GMR3-61
GSB3-60 GHR3-11
GSB3-80

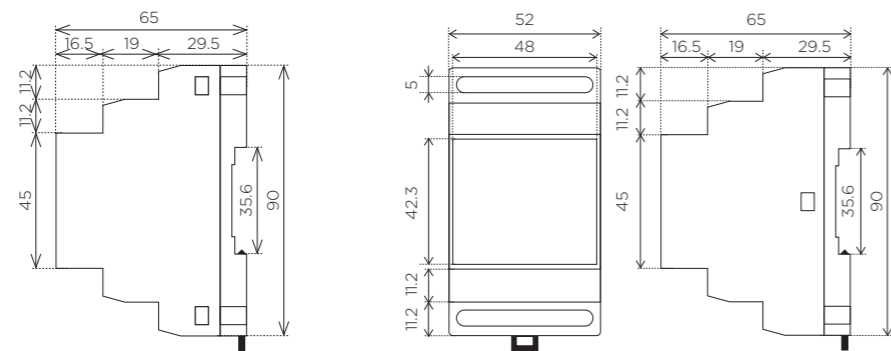
WSB3-20 WSB3-20H
WSB3-40 WSB3-40H
WMR3-21 IDRT3-1

6 Modul



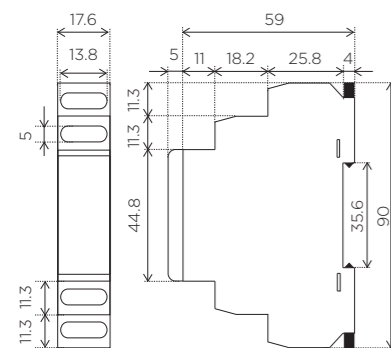
CU3-01M PS3-100/iNELS
CU3-02M SA3-012M

3 Modul



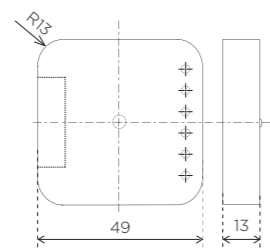
EMDC-64M SA3-06M DCDA-33M TI3-60M
GSM3-01M DA3-22M RFDA-73M ADC3-60M
SA3-04M LBC3-02M IM3-140M DAC3-04M

1 Modul



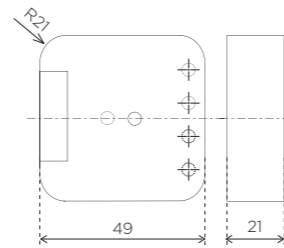
MI3-02M BPS3-01M
SA3-02M BPS3-02M

MINI



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

MINI



SA3-01B
SA3-02B

Installation possibilities



1) Flush mounted

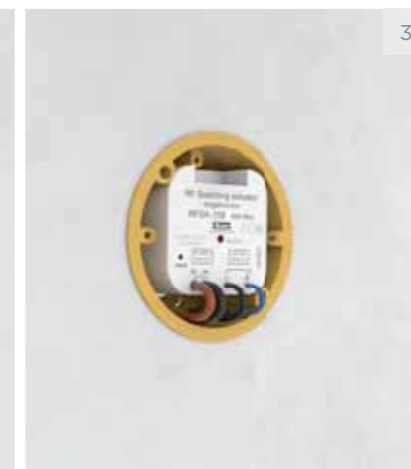
Units are installed into installation box with spacing of 65 mm.

- | | |
|---------|----------|
| EST3 | WSB3-20 |
| GSB3-40 | WSB3-40 |
| GSB3-60 | WSB3-20H |
| GSB3-80 | WSB3-40H |
| GMR3-61 | IDRT3-1 |
| GHR3-11 | |
| WMR3-21 | |

2) DIN Rail mounted

On DIN rail according to EN 60715.

- | | | |
|----------|----------|---------------|
| SA3-02M | SA3-04M | CU3-01M |
| BPS3-01M | SA3-06M | CU3-02M |
| BPS3-02M | DA3-22M | SA3-012M |
| MI3-02M | LBC3-02M | PS3-100/iNELS |
| | DCDA-33M | |
| | EMDC-64M | |
| | GSM3-01M | |
| | IM3-140M | |
| | TI3-60M | |
| | ADC3-60M | |
| | DAC3-04M | |



3) Mounted to or in the installation box

In an installation box or built in to the device.

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

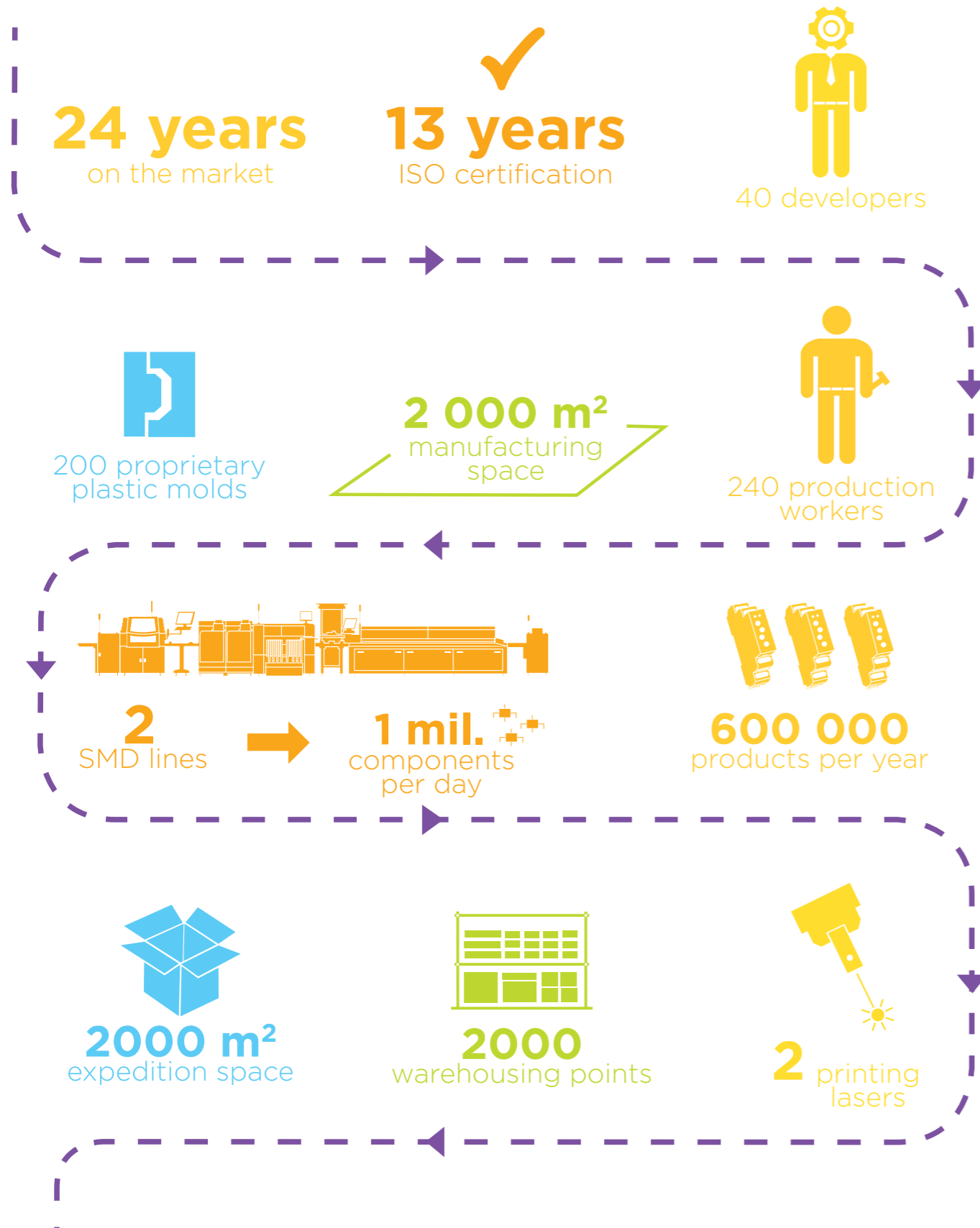
4) Mounted into the cover of appliance

- SA3-01B
SA3-02B



Others just resell

HOWEVER, WE DEVELOP AND MANUFACTURE PRODUCTS OURSELVES!



R&D overall view



Internal lab



SMD production line



Chip placing



Production hall



Testing



ELKO EP Holding



www.elkoep.com