



by ingenium

#### BES, Ingenium's KNX commitment



by ingenium









With more than 25 years of presence in the market, Ingenium continues its activity of design, development and manufacture of home automation solutions, and 100% of this activity is carried out at the headquarters in Asturias, Spain. A quarter of a century that has been fundamental to consolidate Ingenium's product line based on the BUSing protocol, as well as to evolve the KNX BES line or to complement it with the Wings wireless range, which allows to extend any BUSing wired installation. Also the ZClim product line for zoned climate control, which can be integrated with both BUSing and KNX, is emerging as a business line with great potential and interest. Since 2022, Ingenium has been developing Bi-16 as a new product line that offers a comprehensive solution for the management and monitoring of buildings, where aspects such as generation in common areas, individualized consumption control, or billing, are some of the highlights of Bi-16. Tailor-made projects that meet the needs of a wide range of projects.

The BES KNX product line continues to evolve, and this catalog includes the entire Ingenium KNX product portfolio from a commercial point of view. The range of BES KNX solutions keeps growing with the intention of covering all types of home automation installations that require KNX solutions. Here are some of them.

#### New VIIP screens with SIP support

This version of the BES KNX catalog includes all references of the VIIP home automation display, with integrated video door phone functionality, support for SIP installations and call forwarding to cell phones. A display with an extremely slim design, available in 7.1" or 10.1", and with different options regarding network interfaces such as Wi-Fi connection and/or up to two ethernet connectors. Interms of visualization, the KNX installation can be displayed as floor plans with customizable images, or organized by room, so that the customer can choose the most convenient option and design it as desired through the mobile applications for iOS or Android. A special concierge version is also available for use in high-rise residential buildings. More information on page 19.

As a complement to the family of VIIP screens, the **web server** is added in DIN rail format with support for **call forwarding** in installations with SIP video door phone, in addition to native support for third-party integration, and many other features. More information on page 21.

#### Thermostats and zoned climated control

The CUBIK-TLR temperature and humidity sensor has been added to the CUBIK thermostat family, with an attractive circular panel at the top that allows control of the desired temperature, as well as different operating modes or manual control of the fancoil speed. It also has 8 programmable touch areas. More information on page 13.

Regarding the integration with the **ZClim** zoned climate system, the new gateway between ZBUS and KNX allows to easily include the climate control, both for radiant/cooling floor and AC units, in a very simple, direct and practically plug&play way in complete KNX installations (lighting, blinds, sensors, etc.), with a simple addressing system through zone selectors, which simplifies to the maximum the integration of the climate control in the KNX installation. More information on page 54.



Visualization

Integrations

Energy Efficiency

Technical Alarms

Lighting

Supply

Presence

Blinds

Clima







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# Push-buttons & thermostats



 $\Diamond$ 

Cubik V8

Cubik V6

Cubik SQ6

Cubik SQ4

**Cubik SQ2** 

Cubik T

**Cubik TH** 

Cubik TL

**Cubik TLR** 







**CUBIK V8** 



#### CUBIK V6







A LED light indicator is associated with Capacitive push-button with 8 independent touch areas, completely programmable. LED

> indicator associated with each touch area. Vertical rectangular format. Mounting on universal mechanism box.

Built-in temperature sensor with PI thermostat for better energy efficiency and comfort. On/Off. PWM or continuous temperature controller for main heat/cool system and additional.

Buil-in humidity sensor with dew point measurement according to relative humidity and temperature.

> Arithmetic Logic Unit and timers/counters.

Capacitive push-button with 6 independent touch areas, completely programmable. LED indicator associated with each touch area.

Vertical rectangular format. Mounting on universal mechanism box.

Built-in temperature sensor with PI thermostat for better energy efficiency and comfort. On/Off. PWM or continuous temperature controller for main heat/cool system and additional.

Buil-in humidity sensor with dew point measurement according to relative humidity and temperature.

> Arithmetic Logic Unit and timers/counters.

#### **PUSH-BUTTONS**

The new CUBIK series has several models with different number of touch areas.

each of these areas.

There are two sizes depending on the model: square format and vertical rectangular format.

They incorporate built-in temperature and humidity sensors capable of sending the information to the KNX BUS.

Design tool:



#### Glasses:

CUBIK Capriccio SQ: GL310000 CUBIK Capriccio V: GL320000

Basic	White: PL128100	White: PL126100
Front glass fixed, white or black.	Black: PL128200	Black: PL126200
Design	White: PL228100	White: PL226100
Front glass fixed, print customizable.	Black: PL228200	Black: PL226200
Capriccio	White: PL328100	White: PL326100
Front glass interchangeable, print customizable.	Black: PL328200	Black: PL326200









#### **CUBIK SQ6**







#### **CUBIK SQ4**







Capacitive push-button with 6 independent touch areas, completely programmable. LED indicator associated with each touch area.

Square format. Mounting on universal mechanism box.

Built-in temperature sensor with PI thermostat for better energy efficiency and comfort, On/Off, PWM or continuous temperature controller for main heat/cool system and additional.

Buil-in humidity sensor with dew point measurement according to relative humidity and temperature.

> Arithmetic Logic Unit and timers/counters.







Capacitive push-button with 4 independent touch areas, completely programmable. LED indicator associated with each touch area.

Square format. Mounting on universal mechanism box.

Built-in temperature sensor with PI thermostat for better energy efficiency and comfort. On/Off, PWM or continuous temperature controller for main heat/cool system and additional.

Buil-in humidity sensor with dew point measurement according to relative humidity and temperature.

> Arithmetic Logic Unit and timers/counters.

#### **CUBIK SQ2**







Capacitive push-button with 2 independent touch areas, completely programmable. LED indicator associated with each touch area.

Square format. Mounting on universal mechanism box.

Built-in temperature sensor with PI thermostat for better energy efficiency and comfort. On/Off. PWM or continuous temperature controller for main heat/cool system and additional.

Buil-in humidity sensor with dew point measurement according to relative humidity and temperature.

> Arithmetic Logic Unit and timers/counters.

White: PL116100	White: PL114100	White: PL112100
Black: PL116200	Black: PL114200	Black: PL112200
White: PL216100	White: PL214100	White: PL212100
Black: PL216200	Black: PL214200	Black: PL212200
White: PL316100	White: PL314100	White: PL312100
Black: Pl 316200	Black: Pl 314200	Black: Pl 312200









#### **THERMOSTATS**

With or without graphical interface. They include temperature and humidity sensors. Versions available with CO<sub>2</sub> measurement on TH and TL models.

#### Glasses:

CUBIK Capriccio SQ: GL310000 CUBIK Capriccio V: GL320000

Design tool:



#### CUBIK-T / CUBIK-TH



Thermostat for temperature control of one independent air conditioning area.

Includes PI regulator for controlling temperature with higher accuracy for better energy efficiency and comfort

On/Off, PWM or continuous temperature controller for main and additional heat/cool system.

Easy Logic Unit.

CUBIK-TH includes humidity sensor. Dew point measurement according to relative humidity and temperature.

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Thermostat with LED indicators for the control of one air conditioning area.

Eight completely programmable independent touch areas.

Includes a discretized PI regulator to achieve greater comfort and energy savings.

Built-in humidity sensor.

Dew point measurement according to relative humidity and temperature.

Arithmetic Logic Unit and timers/counters.

CUBIK-TL

CUBIK-T	CUBIK-TH
Vithout CO <sub>2</sub>	Without CO <sub>2</sub> / With

	Without CO <sub>2</sub>	Without CO <sub>2</sub> / With CO <sub>2</sub>	Without CO <sub>2</sub> / With CO <sub>2</sub>
Basic	White: SR591110	White: SR591310 / SR591311	White: SR591210 / SR591211
Front glass fixed, white or black.	Black: SR591120	Black: SR591320 / SR591321	Black: SR591220 / SR591221
Design	White: SR592110	White: SR592310 / SR592311	White: SR592210 / SR592211
Front glass fixed, print customizable.	Black: SR592120	Black: SR592320 / SR592321	Black: SR592220 / SR592221
Capriccio	White: SR593110	White: SR593310 / SR593311	White: SR593210 / SR593211
Front glass interchangeable, print customizable.	Black: SR593120	Black: SR593320 / SR593320	Black: SR593220 / SR593221



#### **CUBIK-TLR**







Thermostat with LED indicators for the control of one air conditioning area.

Eight completely programmable independent touch areas, plus thermostat controls in the upper area of the device to control working modes or fan speeds.

Includes a discretized PI regulator to achieve greater comfort and energy savings.

Built-in humidity sensor. Dew point measurement according to relative humidity and temperature.

Arithmetic Logic Unit and timers/counters.

#### CUBIK-TLR Without CO<sub>2</sub>

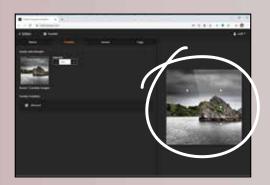
White: SR591410

Black: SR591420

White: SR592410

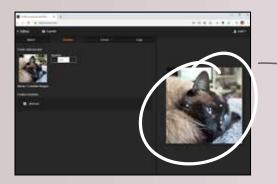
Black: SR592420



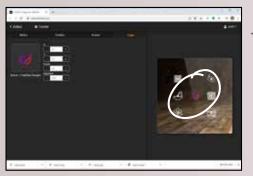












> Choose your background images

Select
and edit
your icons

\_\_\_\_\_\_Add your logo

...and much more







# Visualization





VIIP7 - SIP VIIP10 - SIP SmartTouch 2 ETHBUS-K-IoT ETHBUS4-K



### : entering the future...

advanced home automation control and video intercom in a single touch device







Color capacitive touch screen with SIP video intercom support











Color capacitive touch screen with SIP video intercom support that also includes monitoring and control of a KNX installation.

Available in 7.1" and 10.1".

Visualization by plans or by rooms totally configurable by the user.

Possibility of call forwarding to mobile.

Versions available with Wi-Fi, and / or up to 2 Ethernet network interfaces.

Incorporates web server for remote control from the free Ingenium Apps for iOS or Android.

It allows users creating scenes and programming annual timings, technical alarms or emails, push notifications, etc.

Supports arithmetic and logic unit and scripting.

Compatible with Google Home and Alexa. Native integration with devices of other protocols such as ZWave, Zigbee, etc.

IFTTT Support, and MQTT Broker. Possibility of configuration as a Modbus client or server.

Support for Python programming, intended for advanced user scripting.

	Wi-Fi	Wi-Fi + 1xRJ45	Wi-Fi + 2xRJ45	
7.1"	White: DS170100	White: DS171100	White: DS172100	
	Black: DS170200	Black: DS171200	Black: DS172200	
10.1"	White: DS110100	White: DS111100	White: DS112100	
•	Black: DS110200	Black: DS111200	Black: DS112200	



Concierge control: A version ready for residential concierge control is available, with a specifically designed interface system.





4.3" capacitive and vertical touch screen for controlling and monitoring a KNX installation.

Renovated design, more compact, all-in-one and with a 100% customizable front glass in line with the CUBIK product family.

Curved rear for easy wall mounting. Surface installation with the adapter plate included for fixing to a universal mechanism box.

The electronics have also been completely redesigned, adding more power and processor capacity, resulting in greater fluidity and a better user experience.

It includes Wi-Fi connectivity, and Web server for remote control from Ingenium free apps (iOS or Android).

Compatible with Google Home and Alexa.

In-built temperature sensor with thermostat. Supports weekly timings for thermostat configuration.

It allows programming timings, sending alarm emails and push notifications, etc.

32 control icons distributed in 4 pages.

Fully customizable appearance by software.

Logical unit and scripts included.

Technical alarms support.

White: DS343120

Black: DS343220



#### ETHBUS-K-IoT











Web server for remote control from Ingenium free apps (iOS or Android) and from a web browser.

Visualization by plans or by rooms totally configurable by the user.

SIP video intercom support with possibility of call forwarding to mobile.

Integrated Wi-Fi, and Ethernet network interface.

It allows users creating scenes and programming annual timings, technical alarms or emails, push notifications, etc.

Supports arithmetic and logic unit and scripting.

Compatible with Google Home and Alexa. Native integration with devices of other protocols such as ZWave, Zigbee, etc.

IFTTT Support, and MQTT Broker. Possibility of configuration as a Modbus client or server.

Support for Python programming, intended for advanced user scripting.

#### DS203000



#### ETHBUS4-K











Web server for remote control from Ingenium free apps (iOS or Android) and from a web browser.

Visualization by plans or by rooms totally configurable by the user.

Integrated Wi-Fi, and Ethernet network interface.

It allows users creating scenes and programming annual timings, technical alarms or emails, push notifications, etc.

Supports arithmetic and logic unit and scripting.

Compatible with Google Home and Alexa.

Possibility of configuration as a Modbus server.

DS202020









#### 2E2S-K





Binary actuator with 2 potential-free relay outputs with a cutting power of 16A @ 230V each one.

Multifunction programming.

Outputs work simultaneously or independently in different modes (binary outputs, blinds, etc.).

2 low-voltage digital inputs for connecting conventional pushbuttons or switches.

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

#### 3E2S-K





Binary actuator with 2 potential-free relay outputs with a cutting power of 16A @ 230V each one.

Multifunction programming.

Outputs work simultaneously or independently in different modes (binary outputs, blinds, etc.).

3 low-voltage digital inputs for connecting conventional pushbuttons or switches.

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

CT423220

CT422220









#### 4E-K







4 low-voltage digital inputs for connecting conventional pushbuttons or switches.

Programmable inputs for working simultaneously or independently in different modes (binary inputs, blinds, dimmers, etc).

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

CT454020

#### 4E4SL-K







Binary actuator with 4 SELV outputs for the control of 5V DC signalling LEDs.

4 low-voltage digital inputs for connecting conventional pushbuttons or switches.

Inputs work simultaneously or independently in different modes (binary outputs, blinds,dimmers, etc.).

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

#### 6E4S-K







Binary actuator with 4 potential-free relay outputs with a cutting power of 16A or 30A @ 230V each one.

Multifunction programming.
Outputs work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc.).

6 low-voltage digital inputs for connecting conventional pushbuttons or switches.

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

CT454420

16 amps: 6E4S-K-16A

CT416420

Manual control: CT416440

30 amps: 6E4S-K-30A\*

CT416430

\* This reference allows manual control.





7S-K



KNX climate zone actuator with 7 outputs (18V DC)

Device for controlling motorized grilles to zoning the air conditioning of a KNX installation.

It has 7 independent channels, corresponding to each zone/grill.

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

9S-K







Binary actuator with 9 potential-free relay outputs with a cutting power of 16A @ 230V each one.

Multifunction programming.

Outputs work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc.).

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

CT430920

Manual control: CT430940

CT430720





#### 16S-K







Binary actuator with 16 potential-free relay outputs with a cutting power of 16A @ 230V each one.

Multifunction programming.

Outputs work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc.).

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

CT431620

Manual control: CT431640

22S-K







Binary actuator with 22 potential-free relay outputs with a cutting power of 16A @ 230V each one.

Multifunction programming.
Outputs work simultaneously or independently in different modes (binary outputs, blinds, fan-coil, etc.).

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

CT432220

Manual control: CT432240







#### Universal dimmers







#### **RKU1S200**





1 channel universal dimmer.

200W maximum output power.

Suitable for all types of lighting: incandescent, halogen or LED.

Easy and functional configuration: ramps, staircase timers, scenes, etc.

Built-in mounting in universal distribution box.

#### RKU2S200





2 channel universal dimmer.

200W maximum output power for each channel.

Suitable for all types of lighting: incandescent, halogen or LED.

2 inputs for conventional pushbutton control.

Easy and functional configuration: ramps, staircase timers, scenes, etc.

#### **RKU3S200**





3 channel universal dimmer.

200W maximum output power for each channel.

Suitable for all types of lighting: incandescent, halogen or LED.

3 inputs for conventional pushbutton control.

Easy and functional configuration: ramps, staircase timers, scenes, etc.

DM470120

DM470220

DM470322



0-10V 1-10V







#### RK0104C







4 channels dimmer.

Suitable for 0-10V DC lighting control or AC units with 0-10V interface.

Simple and functional parameterization: ramps, staircase timers, scenes, etc.

#### RK1103C





3 channels dimmer.

16 A maximum output power per channel.

Suitable for 1-10V DC lighting control.

Simple and functional parameterization: ramps, staircase timer, scenes, etc.

#### RK1102C





2 channels dimmer.

1 A maximum output power per channel.

Suitable for 1-10V DC lighting control.

Simple and functional parameterization: ramps, staircase timer, scenes, etc.

Built-in mounting, in universal distribution box or in false ceiling next to the ballast 1-10 V DC.

DM460400

DM460300

DM460200

#### RGBW DMX



#### RGBWL-K





Dimmer for RGBW LED modules (12V to 24V).

Possibility of controlling 4 monochromatic channels individually or simultaneously for RGBW.

Allows to dim brightness or choose from the whole color range with pushbuttons.

Easy configuration of up to 8 scenes and 8 color sequences.

Built-in on universal distribution box.

#### DM480440



#### DMXBUS-K







Bi-directional communication gateway between KNX protocol and DMX512 protocol.

Allows to control DMX devices from the KNX system, being possible to choose between master or slave mode.

Control up to 48 DMX channels simultaneously.

Possibility to program and execute up to 8 scenes and 8 sequences.

GW612110



#### DALI











Gateway between KNX and DALI protocols.

DALI power source integrated.

Allows to control 64 lights and 16 groups from the KNX system.

Supports emergency lights.

Multiple functionalities for each light: dimmering, on/off, scenes, failure warnings, etc.





#### DALIK-BRD3







Gateway between KNX and DALI protocols.

DALI power supply integrated.

It allows to control 3 channels and up to 64 ballasts by broadcast orders, being possible to split number of ballast per channel as interested.

Ability to configure up to 64 scenes.

3 inputs available for conventional pushbutton control.

Possibility of using it as an autonomous device.

GW610300





## Sensors

(9)



SIFKNX SIFKNX-S SIFLUX SIFLUX-S SRKNX



#### **SIFKNX**









Presence infrared detector with brightness sensor.

Built-in and discreet installation with 360° detection.

2 detection channels.

Suitable for lighting control by threshold, motion detection, intrusion control, etc.

Also available in black color.



O White: SR510000

Black: SR510200



#### SIFKNX-S









Presence infrared detector with brightness sensor.

Surface installation with 360° detection.

2 detection channels.

Suitable for constant brightness control, motion detection, intrusion control, etc.

O White: SR511000







#### **SIFLUX**











Presence infrared detector with constant regulation.

Allows to keep a constant lighting level in a room, working together with a dimmer.

> Built-in and discreet installation with 360° detection.

> > 2 detection channels.

Suitable for constant brightness control, motion detection, intrusion control, etc.

Incorporates temperature sensor for additional measurement.

#### SIFLUX-S









Presence infrared detector with constant regulation.

Allows to keep a constant lighting level in a room, working together with a dimmer.

> Surface and discreet installation with 360° detection.

> > 2 detection channels.

Suitable for constant brightness control, motion detection, intrusion control, etc.

Incorporates temperature sensor for additional measurement

#### **SRKNX**









Presence detector with radio-frequency technology for hidden installation.

360° detection through non-metallic surfaces for installation in technical and false ceilings.

> Safe against sabotage and non-desired manipulation due to its hidden installation.

> > 2 detection channels.

Suitable for lighting, motion detection, intrusion control, etc.

O White: SR530000

O White: SR531000

SR570000



## Conventional sensors









#### **ING-SIF**





Infrared movement sensor 12V DC.
Embedded.

Requires a digital input connection (e.g CT454020)

#### ING-DTV



Fire thermovelocimetric detector.

Surface mounted.

Requires a digital input connection (e.g. CT454020)

#### ING-SIN-3H



Flooding sensor

3 wires.

12-32V DC supply required.

Requires a digital input connection (e.g CT454020)













#### DKAC-K







Gateway between KNX protocol and Daikin air conditioning system.

Integrates an indoor Daikin climate unit (SKY or VRV series) with KNX system.

5 operating modes (auto, heat, cold, ventilation, dry).

3 fan speeds (low, medium, high).

Energy saving mode.

Arithmetic-logic unit and timers/counters.

DKAC-D







Gateway between KNX protocol and Daikin air conditioning system.

Integrates an indoor Daikin climate unit with KNX system.

5 operating modes (auto, heat, cold, ventilation, dry).

3 fan speeds (low, medium, high).

Energy saving mode.

Arithmetic-logic unit and timers/counters.

LGAC-K









Gateway between KNX and LG HVAC protocols.

Integrates LG systems (VRV series) with the KNX system.

Possibility of controlling up to 64 interior units.

5 working modes (cooling, heating, ventilation, drying, auto).

> 4 fan speeds (low, medium, high, auto).

LGAC-D







Gateway between KNX and LG HVAC protocols.

Integrates LG systems (VRF series) with the KNX system.

> Direct connection to LG indoor unit.

5 working modes (cooling, heating, ventilation, drying, auto).

> 4 fan speeds (low, medium, high, auto).

GW630100

GW630200

GW632220





<sup>\*</sup> Check compatibility of each gateway in the lists published on our website.









#### MBAC-K







Gateway between KNX protocol and Mitsubishi air conditioning system.

Integrates an indoor Mitsubishi climate unit with KNX system through CN105 connector.

> 5 operating modes (auto, heat, cold, ventilation, dry).

3 fan speeds (low, medium, high).

Energy saving mode.

Arithmetic-logic unit and timers/counters.

MDAC-K







Gateway between KNX protocol and Midea air conditioning system.

Integrates an indoor Midea climate unit with KNX systems.

5 operating modes (auto, heat, cold, ventilation, dry).

3 fan speeds (low, medium, high).

Energy saving mode.

Arithmetic-logic unit and timers/counters.

PNAC-K









Gateway between KNX protocol and Panasonic air conditioning system.

Integrates an indoor Panasonic climate unit (series ECOi or PACi) with KNX systems through 2 wires with polarity connection.

> 5 operating modes (auto, heat, cold, ventilation, dry).

3 fan speeds (low, medium, high).

Energy saving mode.

Arithmetic-logic unit and timers/counters.

**IRKNX-BI** 











Bidirectional emitter and receiver of infrared codes for control of either IR devices from KNX and KNX devices from infrared devices.

Allows controlling multiple IR devices from the same equipment.

Hidden installation in mechanism box with minijack cable for controlling the device.

GW631100

GW633100

GW634100









<sup>\*</sup> Check compatibility of each gateway in the lists published on our website.





#### MET-3C







Electric consumption meter of up to 3 channels.

Possibility of establishing consumption limits.

Alarm function in case of leaving the thresholds.

Interference to procedures of the interfaces of Bes and Apps of Ingenium.

Requires reference GW650060 for correct operation.

GW650300

MET-60A

60A current transformer.

45









USB-K



USB2.0 interface device with Type B connector.

Enables a data connection between PC and KNX bus line without need for an extra application program.

Access to every bus device in the KNX bus system for commissioning, addressing, setting parameters, visualization, protocolling and diagnostics.

BD910000

LIN-K



Line coupler.
Can be used as a line/backbone coupler or as a line repeater in any KNX network.

Galvanic isolated data connection between two separate KNX bus lines (for both coupler and repeater function). IPR-K



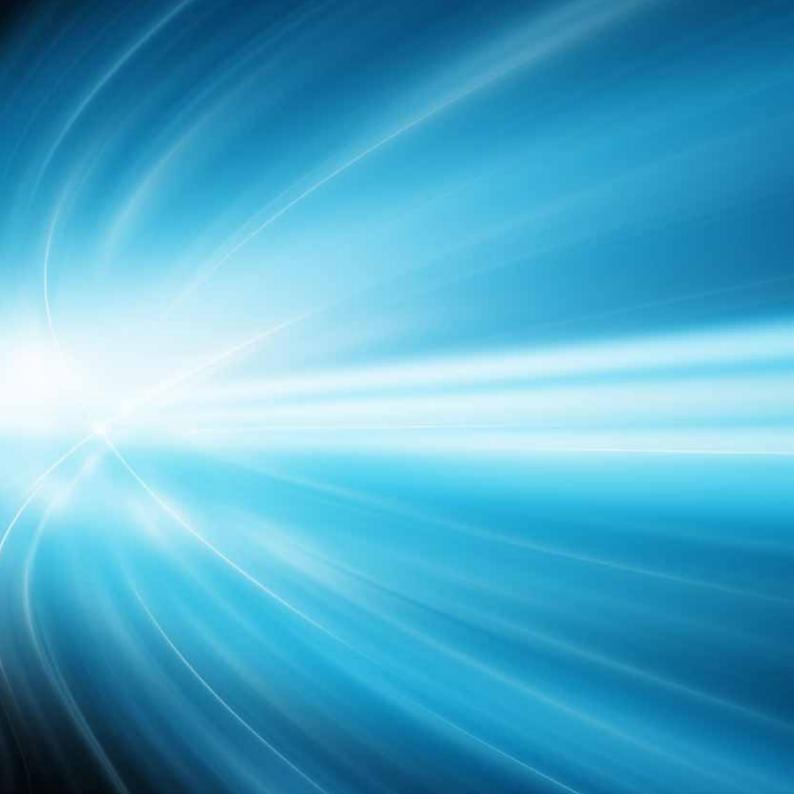
IP routing & tunneling device without external power supply.

Data connection between (upper) KNXnet/IP line and (lower) TP KNX bus line.

Integrated KNX tunneling interface for commissioning, monitoring and diagnostics via ETS.

BD920000

BD930000





## Power supplies



BFK640-BU BFK640 BFK320

BFK160 BFK80







BFK649-BU



640mA KNX power supply with possibility of battery connection to maintain active the KNX installation in case of power failure.

Rail DIN mounted (6 modules).

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BFK640



640mA KNX power supply.
29V DC extra output.

BFK320



320mA KNX power supply.
29V DC extra output.

PS116410

PS116400

PS113200







BFK160



160mA KNX power supply.
29V DC extra output.

BFK80



80mA KNX power supply.
29V DC extra output.

BFK-VIIP



Power supply for exclusive use with Bes VIIP KNX touch-screens.

Designed and adjusted to meet the consumption demand of one screen.

PS111600

PS110800

PS111000













#### MasterClima-Z







Central unit in charge of facilitating the whole zoning process, which allows receiving information from the zone thermostats via ZBUS, and acting accordingly on the corresponding underfloor heating/cooling zones, as well as the zone air unit if any: AC machine, Fancoil (3 speeds or 0-10V DC), motorised grille opening or closing in a centralised air-conditioning installation, etc.

Each unit supports up to 8 underfloor heating/cooling zones, together with their corresponding zoned or centralised air-conditioning system.

Possibility of configuring circuits 7 and 8 as recirculating circuits for radiant and cooling respectively.

It has independent hot/cold demand control.

Allows the connection of an NTC probe.

It has direct connection to both ZBUS and BUSing.

#### Fancoil-Z





Device for the control of a fancoil, allowing different speeds to be activated according to the demand of the assigned zone.

Available in a 3-speed version, or for 0-10V DC signal.

It also has outputs to connect the 2 corresponding solenoid valves.

Direct connection to ZBUS to communicate with the unit.

#### Climate gateways





Gateways for the individual control of the climate units for each zone of the installation.

Support for different brands of ACs: Daikin, LG, Mitsubishi, Panasonic, Midea. It is recommended to consult compatibility.

Direct connection to ZBUS to communicate with the central unit.

# CUBIC-TLZ

#### Zone thermostasts





They allow the temperature and humidity of each zone to be measured, and send the information to MasterClima for management.

Available with or without pushbuttons+LED display, white or black finishes and option to personalize the front glass.

Direct connection to ZBUS.





#### **ZCLIM-KNX**









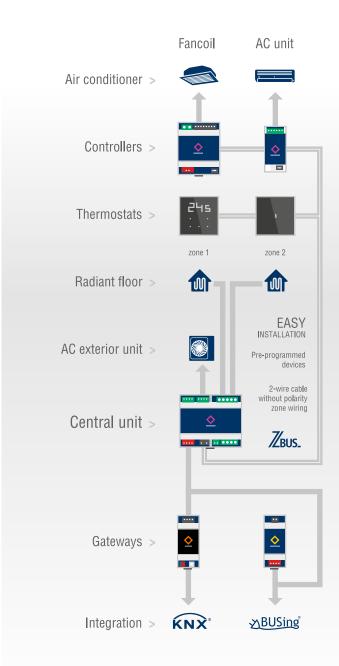


Gateway for the integration of a ZClim zoned climate control installation into a KNX installation.

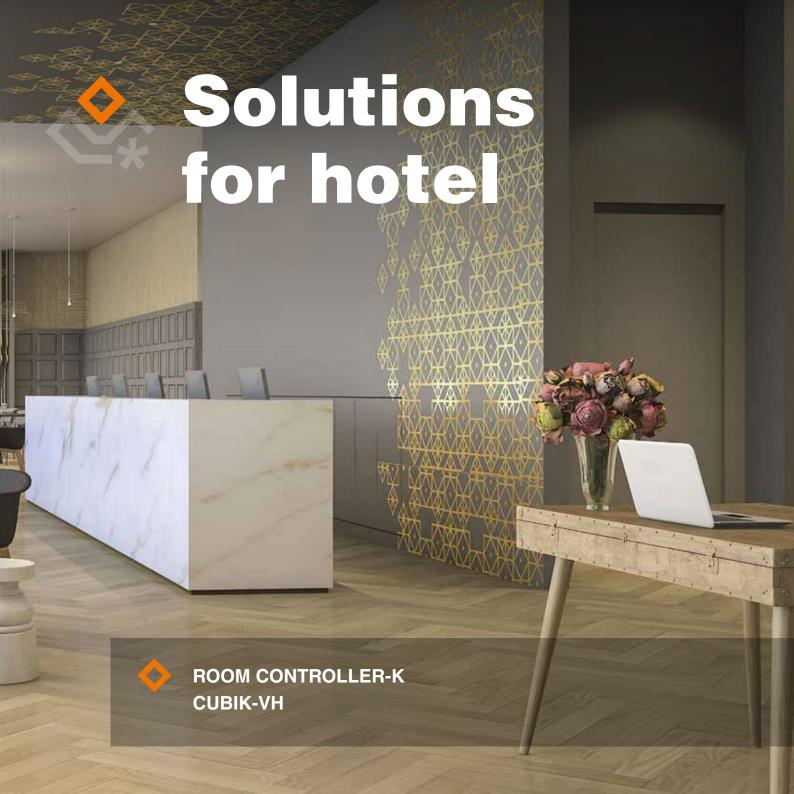
Thanks to its direct connection to KNX, it allows smart integration with other elements of the installation (lighting, blinds...) and remote control devices such as touch screens, mobile phones, tablets...

In a very simple way, it allows you to integrate up to 8 underfloor heating/cooling zones, along with their corresponding zoned or centralized air conditioning system, in a complete KNX installation.

It has a direct connection to both KNX and BUSing.









### The best solution for the hotel

Home automation solutions which make hotel management more effective and efficient. That is what BES offers in this sector. New tools that open a wide range of new functional and management possibilities, and that will facilitate the daily work.

Besides, with home automation system, greater energy savings and greater comfort for the guest are achieved.







#### **ROOM CONTROLLER-K**













Complete solution to control a hotel room.

Outputs for light dimming, on/off LED and/or conventional lighting, fancoil, electrovalves and total room on/off.

Inputs for the control and management of all the outputs, as well as inputs for card reader, technical alarm sensors and magnetic door and window detectors.

Integrable device with Cubik SQ and V, and door room device Cubik-VH. Also compatible with any KNX device.

GW669900

#### **CUBIK-VH**



MUR/DND device for hotel room.

Includes two icons to distinguish between «Do not disturb» and «Make up the room» modes.

Doorbell button and room number indicator added.

#### Without display

Design White: PL221100

Black: PL221200

#### With display

Basic White: PL122100

Black: PL122200

Design White: PL222100

Black: PL222200













SIDEKNX: software for programming BES KNX screens and web servers

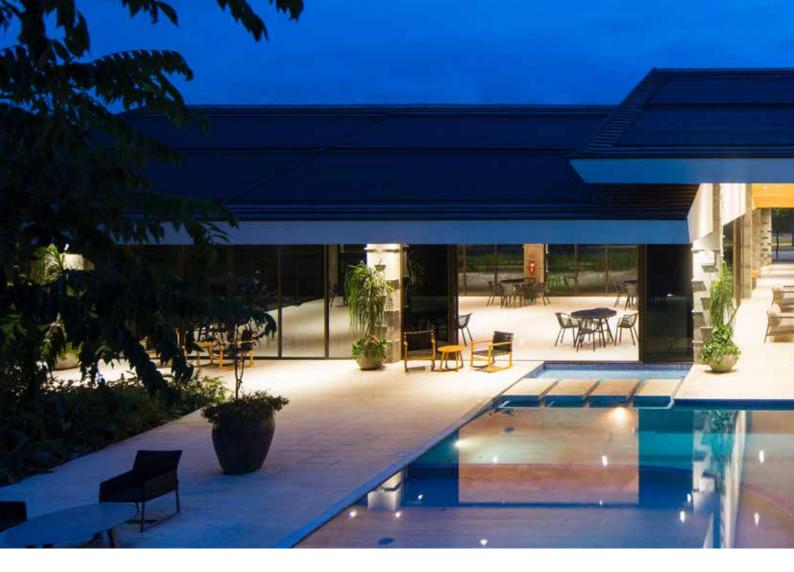
APP iOS: App for iPhone and iPad

APP Android: App for Android devices

Google Home: Voice control integration for KNX installations

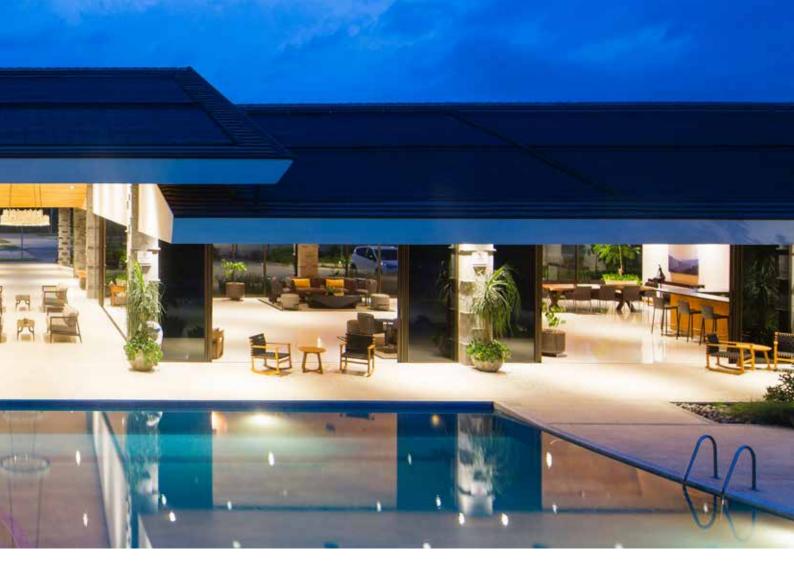
Alexa: Voice control integration for KNX installations

Online design tool for CUBIKs: Page 14



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This catalog is subject to changes and modifications by Ingenium S.L.



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