





BES, Ingenium's KNX commitment





Ingenium HQ in Asturias, Spain.

BES, Ingenium's KNX commitment

In 2018, **Ingenium** celebrates 20 years as a specialist in home automation and automation. Twenty years have served to develop and strengthen its own protocol BUSing in the market, expanding it this year 2018 with the new **Wings** wireless range, which allows to extend any wired BUSing installation. During the last decade, Ingenium has also developed and complemented the **BES KNX** product line that is shown throughout this catalog, based on the KNX standard.










The **BES** product range has been growing significantly during this time, especially over the last 10 years. It started with the hidden presence sensor SRKNX, and has been completed with touch screens, actuators, dimmers, sensors, gateways to other protocols or power supplies, trying to offer professionals the largest portfolio possible to cover all types of home automation installations.

This new 2018 version of the **BES KNX** catalog comes to complete the **Ingenium** KNX proposal even more. The new CUBIK line (capacitive pushbuttons -5 formats and 3 customization levels- and thermostats -3 formats and 3 customization levels-), the new 1-10V and 0-10V dimmers, the new DAIKIN AC gateway, some new solutions for hotel or the manual control incorporated onto the actuators, are some of the most important novelties for this year in the **BES** portfolio.

Absolutely all the products of this catalog are designed, developed, and manufactured at the **Ingenium** headquarters in Asturias, defining one of the hallmarks of the company without a doubt. It is this will to innovate, without neglecting the manufacturing process, which gives us the confidence of our customers and makes every year more users taking interest in **BES**.

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Visualization	
Integrations	
Energy Efficiency	
Technical Alarms	
Lighting	
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Clima	



CUBIK SERIE*



Cubik V8
Cubik V6
Cubik SQ6
Cubik SQ4
Cubik SQ2

Cubik T
Cubik TH
Cubik TL



CUBIK V8



Capacitive push-button with eight 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.



CUBIK V6



Capacitive push-button with six 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.



CUBIK SQ6



Capacitive push-button with six 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 SQ4



Capacitive push-button with four 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 two 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.

PUSH-BUTTONS

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

A LED light indicator is associated with 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.

Glasses:

CUBIK Capriccio SQ: GL310000

CUBIK Capriccio V: GL320000

Basic

Front glass fixed, white or black.

White: PL128100

Black: PL128200

White: PL126100

Black: PL126200

White: PL116100

Black: PL116200

White: PL114100

Black: PL114200

White: PL112100

Black: PL112200

Design

Front glass fixed, print customizable.

White: PL228100

Black: PL228200

White: PL226100

Black: PL226200

White: PL216100

Black: PL216200

White: PL214100

Black: PL214200

White: PL212100

Black: PL212200

Capriccio

Front glass interchangeable, print customizable.

White: PL328100

Black: PL328200

White: PL326100

Black: PL326200

White: PL316100

Black: PL316200

White: PL314100

Black: PL314200

White: PL312100

Black: PL312200



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.



CUBIK-TL



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.

Basic

Front glass fixed, white or black.

White: SR591110 / SR591310

Black: SR591120 / SR591320

White: SR591210

Black: SR591220

Design

Front glass fixed, print customizable.

White: SR592110 / SR592310

Black: SR592120 / SR592320

White: SR592210

Black: SR592220

Capriccio

Front glass interchangeable, print customizable.

White: SR593110 / SR593310

Black: SR593120 / SR593320

White: SR593210

Black: SR593220

And for a hotel room?

Discover our CUBIK series for hotels on page 55.



VISUALIZATION*



SmartTouch-K PLUS
SmartTouch-K BASIC
SmartTouch-MEK
PPKL4
PPKL7

PPKL10
ETHBUS-K
TRMD-K



SmartTouch-K PLUS



4.3" multifunction button panel for controlling and monitoring a KNX installation.

Web server for remote control from Ingenium free apps (iOS or Android).

32 control icons distributed in 4 pages.

Logical unit and scripts included.

Fully customizable appearance by software.

In-built temperature sensor with thermostat.

Technical alarms support.

White: DS343100

Black: DS343200

White mounting box: DS940100

Black mounting box: DS940200



SmartTouch-K BASIC



4.3" multifunction button panel for controlling and monitoring a KNX installation.

Local control from Ingenium free apps (iOS or Android).

32 control icons distributed in 4 pages.

Logical unit and scripts included.

Fully customizable appearance by software.

In-built temperature sensor with thermostat.

White: DS342100

Black: DS342200

White mounting box: DS940100

Black mounting box: DS940200



SmartTouch-MEK



- 4.3" vertical multifunction pushbutton for controlling and monitoring a KNX installation.
- It supports 32 controls distributed in 4 pages, as well as scenes.
- Predefined appearance themes.
- In-built temperature sensor with thermostat.

White: DS341100
Black: DS341200

White mounting box: DS940100
Black mounting box: DS940200



PPKL4



- 4.3" color capacitive touch screen for controlling and monitoring the devices of a KNX installation.
- Web server for remote control from Ingenium free apps (iOS, or Android).
- User can program scenes and annual schedules, email sending with alarm messages, display of IP cameras, etc.
- Schedules can be programmed taking an astronomical clock as a reference.
- Logical unit included.
- Wifi connection and free updating from Internet.

White: DS241100
Black: DS241200

White mounting box: DS940100
Black mounting box: DS940200



PPKL7



- 7.1" color capacitive touch screen for controlling and monitoring the devices of a KNX installation.
- Web server for remote control from Ingenium free apps (iOS or Android).
- User can program scenes and annual schedules, email sending with alarm messages, display of IP cameras, etc.
- Schedules can be programmed taking an astronomical clock as a reference.
- Logical unit included.
- Wifi connection and free updating from Internet.

White: DS271100
Black: DS271200

White mounting box: DS970100
Black mounting box: DS970200



PPKL10



Full color capacitive 10.4” touch screen for controlling and monitoring the KNX installation.

It incorporates web server for remote control from the free Ingenium App for iOS or Android.

It allows programming scenes and annual timed events. Also is possible to arm/disarm the intruder alarm or activate/deactivate the presence simulation, IP cameras visualization, alarms emails sending, etc.

Wifi connection and free updates from the internet.

It allows to realize timings taking as reference an astronomical clock.

Supports arithmetic and logic unit and scripting.

White: DS211100

Black: DS211200



ETHBUS-K



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

User can program scenes and annual schedules, email sending with alarm messages, display of IP cameras, etc.

Schedules can be programmed taking an astronomical clock as a reference.

Logical unit included.

Ethernet and Wifi connection, and free updating from Internet.

DS202000



TRMD-K



KNX vertical thermostat, with large touch area and integrated 2.8” screen to manage an independent climate zone. It includes speed control, modes, measured temperature, setpoint temperature, etc.

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

Menu with options for themes of appearance, brightness, language, etc.

It incorporates PI automatic regulation algorithms to control the temperature with greater precision, improving comfort and energy saving.

On/Off, PWM or continuous temperature controller, which allows control of the main and additional cold / heat systems.

Simple logical unit.

Basic White: DS421100

Black: DS421200

Design White: DS422100

Black: DS422200

White mounting box: DS940100

Black mounting box: DS940200

INPUTS* OUTPUTS

*
2E2S-K
3E2S-K
4E-K
4E4SL-K
6E4S-K

9S-K
16S-K
22S-K



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.

Programming by ETS parameter application.

Plug-in: CT422200

Parameter: CT422220



3E2S-K



Binary actuator with two digital outputs, free voltage relays with a cutting power of 16A @230V each one.

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

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

Arithmetic-logic unit and timers/counters.

Programming by ETS parameter application.

Parameter: CT423220



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.

Programming by ETS parameter application.

Plug-in: CT454000

Parameter: CT454020



4E4SL-K



Binary actuator with four SELV outputs for the control of 5Vdc 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.

Parameter: CT454420



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.

Programming by ETS parameter application or plug-in according to reference.

16 amps: 6E4S-K-16A

Plug-in: CT416400

Parameter: CT416420

Manual control: CT416440

30 amps: 6E4S-K-30A*

Plug-in: CT416410

Parameter: CT416430

* Both references allow manual control.



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.

Programming by ETS parameter application.

Plug-in: CT430900

Parameter: CT430920

Manual control: CT430940



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.

Programming by ETS parameter application.

Parameter: 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.

Programming by ETS parameter application.

Parameter: CT432220

Manual control: CT432240

DIMMERS



RGBL-K
RGBWL-K
RKLED500
RKLED1000
RKLED2S400

RK1000
RK2000
RK3x500
RK0104C
RK1103C
RK1102C



RGBL-K



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

Possibility of controlling 3 monochromatic channels individually or simultaneously for RGB.

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

Easy configuration of up to 32 scenes or color sequences.

DM480330

RGBWL-K



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

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

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

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

DM480440



RKLED500



1 channel dimmer.

500W maximum output power.

Suitable for LED lighting.

Input for conventional pushbutton control.

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

DM490120



RKLED1000



1 channel dimmer.

1000W maximum output power.

Suitable for LED lighting.

Input for conventional pushbutton control.

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

DM490140



RKLED2S400



2 channel dimmer.

400W maximum output power.

Suitable for LED lighting.

2 inputs for conventional pushbutton control.

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

DM490220



RK1000



1 channel dimmer.

1000W maximum output power.

Suitable for incandescent or halogen lighting (with or without transformer).

Input for conventional pushbutton control.

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

DM470140



RK2000



1 channel dimmer.

2000W maximum output power.

Suitable for incandescent or halogen lighting (with or without transformer).

Input for conventional pushbutton control.

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

DM470180



RK3X500



3 channel dimmer.

500W maximum output power for each channel.

Suitable for incandescent or halogen lighting (with or without transformer).

3 inputs for conventional pushbutton control.

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

DM470320



RK0104C



Four channel dimmer.

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

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

DIN rail mounted.

DM460400



RK1103C



Three channel dimmer.

10 A maximum output power per channel

Suitable for 1-10Vdc lighting control

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

DIN rail mounted.

DM460300



RK1102C



Two channel dimmer.

10 A maximum output power per channel

Suitable for 1-10Vdc 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 1-10Vdc.

DM460200

SENSORS*



*
SIFKNX
SIFKNX-S

SIFLUX
SIFLUX-S
SRKNX



SIFKNX



Presence infrared detector with brightness sensor.
Built-in and discreet installation with 360° detection.
Two detection channels.
Suitable for lighting control by threshold, motion detection, intrusion control, etc.

- White: SR510000
- Black: SR510200



SIFKNX-S



Presence infrared detector with brightness sensor.
Surface installation with 360° detection.
Two detection channels.
Suitable for constant brightness control, motion detection, intrusion control, etc.

- White: SR511000
- Black: SR511200



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.
Two detection channels.
Suitable for constant brightness control, motion detection, intrusion control, etc.
Incorporates temperature sensor for additional measurement.

- White: SR530000
- Black: SR530200



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.
Two detection channels.
Suitable for constant brightness control, motion detection, intrusion control, etc.
Incorporates temperature sensor for additional measurement.

- White: SR531000
- Black: SR531200



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.

SR570000

GATEWAYS*



LIGHTING

DMX-BUS
DALIK
DALIK-BRD1
DALIK-BRD2
DALIK-BRD3

CLIMA

LGAC-K
DKAC-I
IRKNX
IRKNX-BI

VIDEO INTERCOM KNX-FERMAX

ENERGY
EFFICIENCY
MET-3C
MET-40A
MET-60A

lighting



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.

GW61210



DALIK



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: dimming, on/off, scenes, failure warnings, etc.

GW61100



DALIK-BRD1



Gateway between KNX and DALI protocols, with DALI power supply integrated.

It allows to control 1 channel and up to 64 ballasts by broadcast orders.

Ability to configure up to 64 scenes.

1 input available for conventional pushbutton control.

Possibility of using it as an autonomous device.

GW610100



DALIK-BRD2



Gateway between KNX and DALI protocols, with DALI power supply integrated.

It allows to control 2 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.

2 inputs available for conventional pushbutton control.

Possibility of using it as an autonomous device.

GW610200



DALIK-BRD3



Gateway between KNX and DALI protocols, with 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

clima



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 and auto).

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

GW632200



DKAC-I



Gateway between KNX protocol and Daikin air conditioning system.

Integrates an indoor Daikin climate unit with KNX system.

Five operating modes (auto, heat, cold, ventilation and dry).

Three fan speeds (low, medium, high).

Includes energy saving mode.

Arithmetic-logic unit and timers/counters.

GW630100

clima



IRKNX



Infrared transmitter with memory for 255 codes.

Substitutes the infrared remote control of any device and integrates the control in the KNX system.

Allows to control many devices with the same transmitter.

Hidden installation in a mechanism box with a mini-jack-wire transmitter for controlling the device.

GW640000

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.

GW640200



Video intercom

Video intercom



KNX-Ferman



Bi-directional communication gateway between KNX protocol and Ferman Smile Dominion video intercom.

Allows to control and manage KNX devices from the Smile Dominion video intercom, using a project uploaded from the SiDEKNX software.

No programming required.

Direct connection to the Ferman Smile Dominion video entry system and the KNX bus.

GW620000



energy
efficiency

energy efficiency



MET-3C



- Electric consumption meter of up to three 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.

GW650300

MET-40A



Current transformer of 40A.

GW650040

MET-60A



Current transformer of 60A.

GW650060

POWER*

SUPPLIES



BFK640-BU
BFK640
BFK320

BFK160
BFK80



BFK640-BU



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

Rail DIN mounted (six modules).

BFK640



640mA KNX power supply.

29Vdc extra output.

BFK320



320mA KNX power supply.

29Vdc extra output.

BFK160



160mA KNX power supply.

29Vdc extra output.

BFK80



80mA KNX power supply.

29Vdc extra output.

PS116410

PS116400

PS113200

PS111600

PS110800

solutions for **HOTEL***



ROOM CONTROLLER-K
CUBIK-VH



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.

Basic White: PL121100

Black: PL121200

Design White: PL221100

Black: PL221200

SOFTWARE & APPS*



APP SAMSUNG SMART TV
APP LG SMART TV
APP ANDROID

APP iOS
SIDEKNX





App Samsung SMART TV



To local control installations from a Samsung television with SMART TV system.

Requires a web server in the installation, which will work as gateway between the Smart TV and the control elements. (See Visualization section, page 15).



App LG SMART TV



To local control installations from a LG television with SMART TV system.

Requires a web server in the installation, which will work as gateway between the Smart TV and the control elements. (See Visualization section, page 15).

App Android



To control installations from devices running Android operating system.

Requires a web server in the installation, which will work as gateway between the Android device and the control elements. (See Visualization section, page 15).

Download here:



App iOS



To control installations from devices running iOS operating system (iPhone, iPad or iPod touch).

Requires a web server in the installation, which will work as gateway between the iOS device and the control elements. (See Visualization section, page 15).

Download here:



SIDEKNX



Fast and intuitive software for programming screens and web servers. (See Visualization section, page 15)

Possibility of importing the group addresses of an ETS project.

Project transfer to the devices with FTP download.

Easy and free updating from the internet.

Download here:



ACCESORIES*



ING-DH
ING-DTV

ING-SIF
ING-SIN-3H

ING-DH



Optical smoke detector.

ING-DTV



Thermovelocimetric fire detector.

ING-SIF



Infrared motion detector 12 Vdc.
Recessed.

ING-SIN-3H



Flood detector.
Three threads.



ingenium*

Bes

www.besknx.com

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The present catalog
is subject to realization
of changes and modifications
by Ingenium S.L.

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