







Ingenium HQ in Asturias, Spain.

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Design and quality, always joined

Ingenium is a vanguard company dedicated to the design, development and manufacture of the highest home automation technology since 1998.

High standards of quality and a strong commitment to R+D+i are the hallmark of Ingenium since its beginnings. Following this path traced by innovation, Ingenium presents in this catalog its Wings series, a new line of wireless devices that will make the home automation available to everyone.

This will to innovate without neglecting the manufacturing process is what gives us the confidence of our customers and it causes each year more users come to Ingenium.

The Ingenium system is completely open and royalty-free, allowing other manufacturers to design equipment under its standard, as well as the development of integrations over devices or gateways with other standards.

Both Ingenium and Wings products are versatile and intuitive and also guarantee the comfort, safety and energy efficiency without forgetting the design: basic pillars on which is based the concept of home automation with which our entire catalog is made.







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CUBIC SERIE

Cubic V8 Cubic V6 Cubic SQ6 Cubic SQ4 Cubic SQ2 Cubic T Cubic TH Cubic TL





PUSH-BUTTONS

The new CUBIC 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.

Glasses:

CUBIC Capriccio SQ: GCC-SQ CUBIC Capriccio V: GCC-V

CUBIC V8



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.

CUBIC V6



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.

Basic	White: CB-V8B	White: CB-V6B
Front glass fixed, white or black.	Black: CB-V8N	Black: CB-V6N
Design	White: CD-V8B	White: CD-V6B
Front glass fixed, print customizable.	Black: CD-V8N	Black: CD-V6N
Capriccio	White: CC-V8B	White: CC-V6B
Front glass interchangeable,	Black: CC-V8N	Black: CC-V6N







CUBIC SQ6



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.

CUBIC SQ4



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.

CUBIC 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.

White: CB-SQ6B	White: CB-SQ4B	White: CB-SQ2B
Black: CB-SQ6N	Black: CB-SQ4N	Black: CB-SQ2N
White: CD-SQ6B	White: CD-SQ4B	White: CD-SQ2B
Black: CD-SQ6N	Black: CD-SQ4N	Black: CD-SQ2N
White: CC-SQ6B	White: CC-SQ4B	White: CC-SQ2B
Black: CC-SQ6N	Black: CC-SQ4N	Black: CC-SQ2N





THERMOSTATS

With or without graphical interface. They include temperature and humidity sensors.

Glasses:

CUBIC Capriccio SQ: GCC-SQ CUBIC Capriccio V: GCC-V

CUBIC-T / CUBIC-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

CUBIC-TH includes humidity sensor.

CUBIC-TL



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

Five touch areas.

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

Basic	White: CB-TB / CB-THB	White: CB-TLB
Front glass fixed, white or black.	Black: CB-TN / CB-THN	Black: CB-TLN
Design	White: CD-TB / CD-THB	White: CD-TLB
Front glass fixed, print customizable.	Black: CD-TN / CD-THN	Black: CD-TLN
Capriccio	White: CC-TB / CC-THB	White: CC-TLB
Front glass interchangeable,	Black: CC-TN / CC-THN	Black: CC-TLN



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And for a hotel room?

Discover our CUBIC series for hotels on page 65.



VISUALIZATION

ST PLUS ST BASIC ST MEC ST TEC PPL4-G PPL7-G PPL10-G ETHBUS TRMD





4,3" capacitive color vertical touch screen, to control and monitor a BUSing[®] installation. Appearance completely customizable (backgrounds, icons, text, controls, etc.).

It supports up to 6 different themes, up to 32 controls, divided into 4 pages (8 icons per page).

It supports technical alarms and one intrusion alarm.

It includes temperature probe to manage a separate climate area.

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

Gestural shortcuts and password lock.

ST BASIC



4,3" capacitive color vertical touch screen, to control and monitor a BUSing® installation. Appearance completely customizable (backgrounds, icons, text, controls, etc.).

It supports up to 6 different themes, up to 32 controls, divided into 4 pages (8 icons per page).

It includes temperature probe to manage a separate climate area.

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

Gestural shortcuts and password lock.



ST MEC



4,3" capacitive color touch screen to control and monitor the elements of a BUSing® installation.

Designed to replace conventional switches and pushbottons, ideal for installing one per room.

It includes the ability to control up to 16 point to point elements by basic icons and 16 scenes with a name. It can incorporate an internal temperature probe for controlling the clima. ST TEC

4,3" capacitive color touch screen to control and monitor the elements of a BUSing* installation.

It allows to manage technical alarms or presence simulation, and to program timings scenes.

It includes the ability to control up to 16 point to point elements by basic icons and 15 scenes with a name. It can incorporate an internal temperature probe for controlling the clima.





PPL4-G

4,3" capacitive color touch screen to control and monitor the elements of a BUSing® installation.

It integrates a web server that allows local and/or remote control of a installation with Ingenium official apps for iOS or Android.

It allows the user to edit its own scenarios, to program annual timings intuitively. Incorporated alarm arming/disarming, intrusion control, presence simulation, thermostats, IP camera display and password lock.

Wifi connection and free updating from Internet.

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



7.1" capacitive color touch screen to control and monitor the elements of a BUSing[®] installation.

It integrates a web server that allows local and/or remote control of a installation with Ingenium official apps for iOS and Android.

It allows the user to edit its own scenarios, to program annual timings intuitively. Incorporated alarm arming/disarming, intrusion control, presence simulation, thermostats, IP camera display and password lock.

Wifi connection and free updating from Internet.

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



PPL10-G



Full color capacitive 10.4" touch screen to control and monitor a BUSing® installation.

It has an integrated web server that enables to control the installation via Internet using a conventional Web browser or by the applications available for iOS and Android.

It allows programming annual timed events and quickly access to control different devices.

Also is possible to program scenes, arm/disarm the intruder alarm or activate/deactivate the presence simulation, chronothermostats control, IP cameras visualization and blocking password.

Wifi connection and free updating from Internet.

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

Control all your home with your handle device

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ETHBUS



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.

Ethernet and Wifi connection, and free updating from Internet.

TRMD



BUSing[®] 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 controller, which allows control of the main and additional cold/heat systems.







KCtr



Technical alarms (intrusion, flood, fire, gas, smoke) central management.

It allows the management of the installation (climate, lighting, blinds) through telephone voice-menus.

It can be programmed for different actions depending on detection (eg. closing the gas valve in the event of a gas leak).

It has 4 outputs, one reserved for the siren and 6 inputs for connection of conventional sensors.

It allows to configure up to 3 telephone numbers for alarm warnings (up to 8 alarms).

All the installation can be managed through spoken menus.





INPUTS OUTPUTS



4E4S 6E6S 6E6S-F2A 4E4S-30A 4E4S-F4A

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2E2S 2E2S-C30A 4E8S MECing MECing-4 MECing-C





Actuator equipped with 4 outputs potential-free relay with 10A switching capacity each.

It permits controlling up to 4 electrical loads or 2 blinds.

It can also control all types of motors or solenoids engines.

Allows manual control via pushbuttons and/or switches.

Four programmable inputs that can work independently.

It integrates a power supply capable of providing power to the BUS.



Actuator equipped with 6 outputs to control 6 electrical loads or 3 blinds. It integrates an internal power supply capable of providing power to the BUS.

Allows manual control via push buttons and/or switches.

It incorporates cutting power relays with 6A per output.

Not compatible with Led lighting.

6 programmable inputs.



6E6S-F2A

On/off actuator provided with 6 triac outputs internally connected to the power supply phase of the device, with a maximum cut-off power (totaling all outputs) of 12 A.

Device specially indicated for fluorescence or LED control.

6 programmable inputs for connecting conventional pushbuttons or switches.



4E4S-30A



Actuator equipped with 4 outputs for controlling electrical high power loads.

It incorporates cutting power relays with 30A per output and possibility of manual reset.

Allows manual control via push buttons and/or switches.

4 programmable inputs.



4E4S-F4A



Actuator equipped with 4 TRIAC outputs with maximum cutting power of 4A per output.

Device specially indicated for the fluorescent or LED lights control.

Allows manual control via push buttons and/or switches.

4 programmable inputs.







2E2S



- 2 outputs actuator to control two electric charges or 1 blind.
- It incorporates cutting power relays with 10A per output.
- Allows manual control via push buttons and/or switches.
 - 2 programmable inputs.
- Small size equipment designed to be installed in register box.

2E2S-C30A



- 2 outputs actuator to control electrical high power loads.
- It incorporates cutting power relays with 30A per output.
- Allows manual control via push buttons and/or switches.
 - 2 programmable inputs.

4E8S



- Actuator equipped with 8 outputs to control eight electric charges or four blinds.
- It incorporates cutting power relays with 10A per output.
- Allows manual control via push buttons and/or switches.
 - 4 programmable inputs.







MECing



Conventional mechanisms adapter (buttons and/or switches, sensors, etc.) for BUSing®.

It has 3 digital inputs.

Especially useful to distribute the installation and to execute scenes.

Designed to be installed in universal mechanism box behind pushbuttons and/or switches.

MECing-4



Conventional mechanisms adapter (buttons and/or switches, sensors, etc.) for BUSing®.

It has 4 digital inputs.

Especially useful to distribute the installation and to execute scenes.

Designed to be installed in universal mechanism box behind pushbuttons and/ or switches.

MECing-C



DIN rail mounted version of MECing device (2 modules).

It has 3 digital inputs.

Especially useful to distribute the installation and to execute scenes.

Allows high distance of wiring (approx 100 meters).

Specially designed for noisy environments.



DIMMERS

RBLED2S400 RBLED500 RBLED1000 RB300 RR800

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2S300 RB1500 RBF10A DMXBUS RGBL RGBWL DALing

TINK



RBLED2S400



LED lighting controller for 2 LED circuit with maximum power of 400W each.

It also controls incandescent or halogen lighting, with or without transformer.

Configurable values such as ramp rate, or maximum and minimum dimming values.

It has 2 preset inputs directly connected to the outputs for controlling from switch. Controllable from other devices: MECing, touch screens, apps, etc.





LED lighting controller for a single LED circuit with maximum power of 500W.

Suitable for LED lighting, it also controls incandescent or halogen lighting, with or without transformer.

It has 1 input directly linked to the output for controlling from switch. Controllable from other devices: MECing, touch screens, apps etc.





- LED lighting controller for a single LED circuit with maximum power of 1000W.
- Suitable for LED lighting, it also controls incandescent or halogen lighting, with or without transformer.
- It has 1 input directly linked to the output for controlling from switch. Controllable from other devices: MECing, touch screens, apps etc.



Possibility to control this device from other devices such as MECing, touch screens, apps etc. Mounting in a junction box.



Lighting controller for a single circuit with maximum power of 800 W.

Suitable for LED lighting. Also incandescent and halogen lighting, with or without transformer.

Possibility to control this device from other devices such as MECing, touch screens, apps etc.





RB1500



- Lighting controller for a single circuit with maximum power of 1500W.
 - Suitable for incandescent and halogen lighting, with or without transformer.
- Possibility to control this device from other devices such as MECing, touch screens, apps etc.



DMXBUS

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Gateway to control color LEDs regulation by DMX512 protocol from BUSing®.

Can emulate every channel of a digital dimmer (up to 255).

It can configure a full color wheel, being able to control the level of brightness of each LED.

Lighting controller for 2 circuits with maximum power of 300W each. Suitable for incandescent and halogen lighting, with or without transformer.

Possibility to control this device from other devices such as MECing, touch screens, apps etc.



1-10V lighting controller for electronic ballasts. It has 1 regulation channel.

Suitable for dimming fluorescent or discharge lighting with electronic ballasts.

Possibility to control this device from other devices such as MECing, touch screens, apps etc.







RGBL

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RGB lighting controller, can act on each of the 3 channels independently or all three at once.

Suitable for color RGB LED strips control, creating different environments thanks to the combination of colors.

Possibility to control this device from other devices such as MECing, touch screens, apps etc.

RGBWL

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RGBW lighting controller, can act on each of the 4 channels independently or all four at once.

Suitable for color RGBW LED strips control, creating different environments thanks to the combination of colors.

Possibility to control this device from other devices such as MECing, touch screens, apps etc.

DALing

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Gateway to control luminaires with DALI protocol from BUSing[®]. It includes an integrated power supply.

Controls up to 64 DALI luminaires and 16 DALI lighting groups.

Possibility to control this device from other devices such as MECing, touch screens, apps etc.


RS ji. Air quality **Movement BUSing-Hailin** SifBUS-L SRBUS Flooding SifBUS-S SifBUS-LS SinBUS Sif Sin-2H SifBUS-E Sin-3H Contact Fire/smoke **DMBUS** DH DHBUS Light DTV **LDRBUS DTVBUS**





SifBUS-L



Double sensor (Infrared motion detector + light level sensor), for cable connection to BUSing[®].

It has the ability to program events during and at the end of the detection, or in case of lack of brightness.

It is possible to work with the presence and light detections at the same time or separately.

It has a high level of immunity to false alarms, electromagnetics fields and temperature variations.

Build for indoor installations.

* Black version available.



SRBUS



Sensor that detects movement through walls and ceilings of any nonmetallic material.

Its hidden installation behind walls, ceilings, partitions, manholes or watertight boxes, guarantees protection against unwanted intrusion or vandalism acts being not accessible nor visible.

It can be used for both intrusion on lighting and climate control among others. It is possible to set parameters such as sensitivity, sampling period, timing, etc.

It can detect up to 25 meters straight. When installing at 2.5m high, it covers an area of 12x6m. The detection area can be screened with metal tape on device surface.





SifBUS-S



Infrared motion detector for cable connection to BUSing[®]

BUS sensor with high immunity against false alarms, electromagnetic fields and temperature variations.

Surface installation in interior ceilings avoiding places heavily exposed to direct sunlight and air drafts.

SifBUS-LS



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.

movement





Infrared motion detector ready for connection to PBX KCtr or input modules such as MECing.

Conventional sensor with high immunity to false alarms, electromagnetic fields and temperature variations

Placing recessed interior ceilings avoiding heavily exposed to direct sunlight and air drafts zones.

* Black version available.





Infrared motion detector for cable connection to BUSing[®].

BUS sensor with high immunity against false alarms, electromagnetic fields and temperature variations.

Surface installation in interior ceilings avoiding places heavily exposed to direct sunlight and air drafts.

* Black version available.



flooding







Suitable for installation in areas where the presence of smoke is unusual such as hallways, rooms, etc.

Suitable for installation in areas where the presence of smoke is usual such as kitchens, garages, etc.



BUSing-LGAC-I BUSing-LGAC-D BUSing-LGAC-IR BUSing-DKAC-I BUSing-DKAC-IR

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BUSing-MBAC-I BUSing-McQuay RejiBUS Iring

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BUSing-DKAC-I



Gateway for integration of DAIKIN air conditioning system, SKY line, with BUSing® control system.

The device has a direct connection to the Daikin indoor unit door through two wires without polarity.

It allows to turn on/off the unit, set its operating mode, fan speed and setpoint temperature.

BUSing-DKAC-IR



Gateway to control DAIKIN domestic indoors with inafrared receptor.

It allows to turn on/off the unit, set its operating mode, fan speed and setpoint temperature.

Easy installation close to the domestic clima unit.





BUSing-MBAC-I



Gateway between Mitsubishi air conditioning system and BUSing* control system.

It allows to control one Mitsubishi indoor unit

It permits to on/off the unit, set the operating mode, fan speed and setpoint temperature.





BUSing-McQuay



Gateway for integration of the McQuay air conditioning system with the BUSing® control system.

The equipment has an RS485 bus connection to the external McQuay units. Controls up to 32 indoor units.

For each indoor unit is possible to switch on / off, set the mode of operation, speed of ventilation and setpoint temperature, as well as know the temperature you are measuring at all times.





RejiBUS



Actuator to control motorized grating (12V) to zone A/C.

Thanks to its small size, it can be installed inside the very mechanism of the grating.

It can be controlled from any BUSing® device: STIBUS, MECing, touch screens, Apps etc.





Infrared transmitter with memory for 255 codes.

One device allows to control more tan one device with infrared receptor.

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





Equipment used to control audio.

It has 4 inputs in which it is possible to connect different audio sources (MP3, mini stereo, radio, etc).

It permits to select between 4 different channels and volume control.

It offers the possibility of connection to pre-amplified speakers.



MeterBUS-4C

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MeterBUS-1C MeterBUS-3C

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MeterBUS-4C



Equipment for measuring and controlling the power consumption of up to 4 single-phase circuits.

Possibility to program 2 scenes and consumption threshold for each channel.

One scene is executed when consumption exceeds the threshold and another when it left to overcome.

It displays consumption, graphs of weekly cumulative consumption levels and change of thresholds via Ingenium touch interfaces.





MeterBUS-1C



Consumption meter of up to 1 channel.

A current transformer ring is used to perform measurements on the physical channel.

Measurements can be displayed on the touch screens or official Ingenium Apps.

MeterBUS-3C



Consumption meter of up to 4 different channels (3 physical + 1 virtual).

Current transformer rings are used to perform measurements on the physical channels.

Measurements can be displayed on the touch screens or official Ingenium Apps.



OTHER DEVICES

Programming BPC-USB BPC-WiFi C-BUS C-BUS-KIT

Communication BW-Wings BW-LA ROUTing REPing EndBUS Integrations RS232 Uling RTC VeluxBUS BUSing-KNX

Power supply BF1-W BF22 BF2 BF2-BU





BPC-USB

It allows the connection of a PC via the USB port with a wired BUSing® installation.

It allows the programming of BUS devices using the system development software SIDE.

COM port selection and configuration of the communication speed.



C-BUS

BUSing[®] device that allows the development of programs in C-language applied to BUSing[®].

8 analog inputs and 2 analog outputs of 0-10V.

8 digital inputs and 2 digital relay outputs with breaking 10 A.



BPC-WiFi

It allows the connection of a PC via WiFi or AP with a wired BUSing® installation.

It allows the programming of BUS devices using the system development software SIDE.

COM port selection and configuration of the communication speed.



C-BUS-KIT

Kit consists of C-BUS device and the necessary equipment for its programming.

Includes programmer, software and libraries.

Great potential using analog and digital inputs and outputs of the device.





BW-Wings

Device that allows communication between BUSing® wiring devices and Wings wireless devices.

It performs bidirectional conversion of the commands sent to different devices in the installation.

It has up to 12 radio communication channels and 255 id to avoid interferences.



ROUTing

Coupling between BUSing® main line and secundary line.

It has two BUSing® connections (main and secondary line)

It allows selective filtering of traffic to some devices.



REPing

Signal repeater device that retransmits the received data packets.

Lengthens the distance of the bus and the number of devices connected to a line.

It has two BUSing® connections.



EndBUS

Device that connects the two ends of the line of BUS as active terminator.

It polarizes the BUS line, improving communications and monitoring the activity.

Allows detection of possible errors in communications.

Error Checking from SIDE.

BW-LA

Device for long-range communication between wired and wireless BUSing® devices.

It performs bidirectional conversion of the commands sent to different devices in the installation.

It has up to 13 radio communication channels to avoid interferences.





RS232

Gateway between BUSing® and RS232 serial port.

It is used to control devices with RS232 interface.

This device is Master RS232.



RTC

BUSing[®] real time clock.

Synchronizing time of the installation devices keeping it in case of power failure.

Automatic and periodic synchronization via the BUS.



BUSing-KNX

Gateway that allows connecting a BUSing® installation with a KNX installation.

Programming is done through the development system SIDE or ETS.

There are two possibilities for integration; KNX/BUSing® device or installation in BUSing®/KNX installation.



ULing

BUSing[®] logical unit that allows different logical operations (AND, OR, and XOR).

It has 3 channels of communication up to 48 commands.

Programming option of 2 BUS events for each operation channel.



VeluxBUS

Device to control Velux® type windows.

Actuator with 1 output for controlling DC motors 24 Vdc.

It allows to be controlled from touch screens, PC, pushbuttons, Apps, etc.





BF1-W

BUSing® power supply with integrated wireless repeater.

It allows to supply BUSing® power and send and receive telegrams wirelessly.

Mounted in universal register box.



BUSing® power supply capable of providing 500 mA.

It allows to supply power to equipments connected to the BUS.

It is necessary for the proper functioning of the BUSing® installation depending on the connected devices.



BUSing® power supply capable of providing 1000 mA.

It allows to supply power to equipments connected to the BUS.

It is necessary for the proper functioning of the BUSing[®] installation depending on the connected devices.



BF2-BU

BUSing[®] power supply capable of providing 500 mA to supply power to equipments connected to the BUS.

In case of power failure, it can mantain the installation through the external battery.

It requires an external battery. It has an auxiliary output to charge external battery.

4 modules DIN rail mounted device.









SIDE - Software for configuring and programming BUSing® installations SC-PC - Software for controlling BUSing® home automation systems via PC SH-PC - Software for controlling hotels ING-TRACKER - Software for ETHBus3 network configuration APP-iOS - App for iPhone and iPad APP-Android - App for Android devices APP-Samsung SmartTV - App for Samsung Smart TV APP-LG SmartTV - App for LG SmartTV



HOTEL SOLUTIONS

ROOM CONTROLLER CUBIC-VH



The best solution for a hotel

Home automation solutions which make hotel management more effective and efficient. That is what Ingenium 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.







Device specially indicated for hotel room control

Enables light dimming, binary outputs, on/off LED lighting, fancoil, electrovalves, card reader and binary inputs for technical alarms.

Inputs for 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 Cubic-SQ and V, and door room device, Cubic-VH. Also compatible with any BUSing® device. CUBIC-VH



MUR/DND device for hotel room.

2 touch areas for two different modes: "Do not disturb" and "Make up the room".

Doorbell button and room number indicator added.



CONTROL BY ZONES



Cubic-TZ Cubic-TLZ

The complete solution in climate control by zones

Our system automatically manages all the elements of a climate installation, so the user can simply choose the desired temperature.



The MasterClima-Z unit is responsible for facilitating the entire zoning process. It has BUSing® and ZBUS connection.

ZBUS

The new ZBUS connection simplifies the installation of zone thermostats and motorized grilles control devices, thanks to its simple two-wire system with no polarity.

BUSing

Through BUSing® communications protocol, the climate installation can be completed with air conditioning control devices.

It also allows home automation integration with other smart house elements, and remote control devices such as touchscreens, mobile, tablets...





BUSing[®] allows you to control the installation using our touch screens and applications for mobile devices.





MasterClima-Z



Central unit for climate control by zones.

It enables de control of up to 8 zones of underfloor heating, BUSing and ZBUS connections, and separate cold/heat demand control.

Possibility to control this device from other devices such as touch screens, apps etc.

RejiBUS-Z



Actuator for the control of motorized grilles. Includes potentiometer for zone selector. It is controlled by Masterclima-Z.




CUBIC-TZ



Temperature sensor for temperature control of each zone.

Discretized PI controller included for greater comfort and energy savings.

Zone ID selector by potentiometer

It permits the same modes as Masterclima-Z.





Thermostat for zone temperature control with LED indicators for temperature.

Zone ID selector by push-buttons.

It permits the same modes as Masterclima-Z.



O MISSING Ingenium BF







Automation is within your reach

With the purpose of bringing automation accessible to everyone arise **Wings**, a new line of **Ingenium** wireless products.

Wings devices keep quality standards, design and versatility of **Ingenium** products, and all of them have a common feature: They are wireless, which facilitates its installation in any home, with no need neither of any job or alteration in the electric wiring of an old installation.

With **Wings**, it will be able to control lighting, blinds, technical alarms, etc, by RF communication. Besides, it is compatible with wire **Busing** installations.





Center Link



Concentrator module RF + WiFI.

It allows to program, configure and manage the full BUSing® Radio installation remotely via the mobile application through the Ingenium server.

Wi-Fi connectivity for remote control via smartphone or tablet from your iOS or Android device.





SEIR360

Presence infrared detector. Built-in and discreet installation with 360° detection. Suitable for motion detection, intrusion control, etc.



Temperature-increasing detector for wireless connection to BUSing®.

Wireless sensor for detecting fires in the installation by sudden changes in temperature.

Suitable for installation in areas where the presence of smoke is usual such as kitchens, garages, etc.



SEIR360BS

Presence infrared detector.

Surface and discreet installation with 360° detection. Suitable for motion detection, intrusion control, etc.



SEMA

Magnetic detector for doors or windows, prepared for wireless connection to BUSing®.

Wireless sensor that detects the opening of doors or windows.

Anti-intrusion security or climate control for energy savings functions.



SEFO

Flood vertical probe designed for wireless connection to BUSing®.

2 programmable scenes for activation and deactivation of the sensor.

Designed to be located where there is a risk of leakage or accumulation of water.

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Device used for lighting control and / or any other type of electrical load with a working voltage of 230 Vac.

Device used for controlling blinds that have motors with a working voltage of 230Vac.



Device to convert conventional mechanism commands (pushbuttons and/or switches) into BUS wireless commands.

3 programmable low-voltage digital inputs



SOCK1

 \odot

Socket controlled via BUSing® Radio home automation system.

Direct connection to an installation wall socket.

It has a potential-free relay output with a cutting power of 10 A @230V to conect the device or lamp to be controlled.





Socket controlled via BUSing® Radio home automation system.

Direct connection to an installation wall socket and grounding

It has a potential-free relay output with a cutting power of 6 A @230V to conect the device to control.





Device that allows communication between BUSing® wiring devices and Wings wireless devices.

It performs bidirectional conversion of the commands sent to different devices in the installation.

It has up to 12 radio communication channels and 255 id to avoid interferences.





SOCK1T



Socket controlled via BUSing® Radio home automation system.

Direct connection to an installation wall socket.

It has a potential-free relay output with a cutting power of 6 A @230V to conect the boiler.

It incorporates input for conventional thermostat signal.







Socket controlled via BUSing® Radio home automation system.

Direct connection to an installation wall socket.

It has a potential-free relay output with a cutting power of 6 A @230V to conect the boiler.

It incorporates input for Wings thermostat signal.

* Control these devices with CUBIC-TZ and CUBIC-TLZ (Page 73)





BSR

HIDDEN MOVEMENT DETECTOR



360° Movement detector designed for hidden installation in false ceilings or walls. Able to detect through nonmetallic solid surfaces using radio frequency technology. It works autonomously without BUSing® connection. Timing (0-17 mins) and sensitivity (up to 20m) adjustable by potentiometers. Practical, easy to install and discreet: does not alter the building interior design and saves energy.



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



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