

TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

[1. TOUCH SCREENS 7](#_Toc102457445)

[Z70 v2 8](#_Toc102457446)

[Z41 COM 9](#_Toc102457447)

[Z41 PRO 10](#_Toc102457448)

[Z41 Lite 11](#_Toc102457449)

[Z40 12](#_Toc102457450)

[Z35 13](#_Toc102457451)

[2. CAPACITIVE TOUCH SWITCHES 14](#_Toc102457452)

[Touch-My Design Plus 4 15](#_Toc102457453)

[Touch-My Design Plus 8 17](#_Toc102457454)

[TMD-Display One 18](#_Toc102457455)

[TMD-Display View 19](#_Toc102457456)

[Square TMD 1 20](#_Toc102457457)

[Square TMD 2 21](#_Toc102457458)

[Square TMD 4 22](#_Toc102457459)

[Square TMD 6 23](#_Toc102457460)

[Square TMD-Display 24](#_Toc102457461)

[Flat 1 v2 25](#_Toc102457462)

[Flat 2 v2 26](#_Toc102457463)

[Flat 4 v2 27](#_Toc102457464)

[Flat 6 v2 28](#_Toc102457465)

[Flat Display v2 29](#_Toc102457466)

[Flat 55 X1 v2 30](#_Toc102457467)

[Flat 55 X2 v2 31](#_Toc102457468)

[Flat 55 X4 v2 32](#_Toc102457469)

[Flat 55 Display v2 33](#_Toc102457470)

[Tecla 55 X1 34](#_Toc102457471)

[Tecla 55 X2 35](#_Toc102457472)

[Tecla 55 X2 Sign 36](#_Toc102457473)

[Tecla 55 X4 37](#_Toc102457474)

[Tecla 55 X6 38](#_Toc102457475)

[Tecla XL X4 – SUBJECT TO CHANGES 39](#_Toc102457476)

[Tecla XL X6 – SUBJECT TO CHANGES 40](#_Toc102457477)

[Tecla XL X8 – SUBJECT TO CHANGES 41](#_Toc102457478)

[Tecla XL X10 – SUBJECT TO CHANGES 42](#_Toc102457479)

[3. ACCESSORIES 43](#_Toc102457480)

[Accessory for dry-wall flush mounting for Z41 and TMD family 44](#_Toc102457481)

[Accessory for dry-wall flush mounting for SQTMD family 45](#_Toc102457482)

[4. ACTUATORS 46](#_Toc102457483)

[ALLinBOX 1612 v2 47](#_Toc102457484)

[ALLinBOX 88 48](#_Toc102457485)

[ALLinBOX 46 49](#_Toc102457486)

[ALLinBOX Hospitality 50](#_Toc102457487)

[ACTinBOX MAX6 51](#_Toc102457488)

[MAXinBOX 66 v2 52](#_Toc102457489)

[MAXinBOX 8 v3 53](#_Toc102457490)

[MAXinBOX 16 v3 54](#_Toc102457491)

[MAXinBOX 24 55](#_Toc102457492)

[MAXinBOX 24 v2 56](#_Toc102457493)

[MAXinBOX Shutter 4CH v2 57](#_Toc102457494)

[MAXinBOX Shutter 8CH v2 58](#_Toc102457495)

[MINiBOX 20 59](#_Toc102457496)

[MINiBOX 25 v2 60](#_Toc102457497)

[MINiBOX 40 v2 61](#_Toc102457498)

[MINiBOX 45 v2 62](#_Toc102457499)

[inBOX 20 v2 63](#_Toc102457500)

[inBOX 24 v2 64](#_Toc102457501)

[MINiBOX 0-10V X3 65](#_Toc102457502)

[MINiBOX 0-10V X2 66](#_Toc102457503)

[MINiBOX 0-10V X1 67](#_Toc102457504)

[Shutter Coupler 1CH 68](#_Toc102457505)

[Shutter Coupler 2CH 69](#_Toc102457506)

[5. LIGHTING 70](#_Toc102457507)

[NarrowDIM X4 71](#_Toc102457508)

[NarrowDIM X2 72](#_Toc102457509)

[DIMinBOX DX4 73](#_Toc102457510)

[DIMinBOX DX2 74](#_Toc102457511)

[DIMinBOX DX1 75](#_Toc102457512)

[inBOX DIM 76](#_Toc102457513)

[Lumento X3 77](#_Toc102457514)

[Lumento X4 78](#_Toc102457515)

[Lumento DX4 79](#_Toc102457516)

[Lumento C4 80](#_Toc102457517)

[Lumento C3 81](#_Toc102457518)

[DALIBOX Broadcast 6CH 82](#_Toc102457519)

[DALIBOX Broadcast 4CH 83](#_Toc102457520)

[DALI-BOX Interface v2 84](#_Toc102457521)

[6. HVAC CONTROL 85](#_Toc102457522)

[IRSC Plus 86](#_Toc102457523)

[KLIC-MITT v2 87](#_Toc102457524)

[KLIC-MITTE 88](#_Toc102457525)

[KLIC-LG1 89](#_Toc102457526)

[KLIC-FJ 90](#_Toc102457527)

[KLIC-TS 91](#_Toc102457528)

[KLIC-PA 92](#_Toc102457529)

[KLIC-SG 93](#_Toc102457530)

[KLIC-DD v3 94](#_Toc102457531)

[KLIC-DI 95](#_Toc102457532)

[KLIC-DI v2 – SUBJECT TO CHANGES 96](#_Toc102457533)

[KLIC-DA 97](#_Toc102457534)

[KLIC-DA v2 – SUBJECT TO CHANGES 98](#_Toc102457535)

[ACTinBOX MAX6 FAN COIL 99](#_Toc102457536)

[MAXinBOX FC 0-10V FAN 100](#_Toc102457537)

[MAXinBOX FC 0-10V VALVE 101](#_Toc102457538)

[MAXinBOX Hospitality v2 102](#_Toc102457539)

[MAXinBOX FAN COIL 2CH2P v2 103](#_Toc102457540)

[MAXinBOX FAN COIL 4CH2P v2 104](#_Toc102457541)

[ZoningBOX 4 105](#_Toc102457542)

[ZoningBOX 6 106](#_Toc102457543)

[HeatingBOX 230V 4X 107](#_Toc102457544)

[HeatingBOX 230V 8X 108](#_Toc102457545)

[HeatingBOX 24V 4X 109](#_Toc102457546)

[HeatingBOX 24V 8X 110](#_Toc102457547)

[FANinBOX 230V 1CH 111](#_Toc102457548)

[FANinBOX 110V 1CH 112](#_Toc102457549)

[7. SENSORS 113](#_Toc102457550)

[QUAD Plus 114](#_Toc102457551)

[RailQUAD 8 115](#_Toc102457552)

[BIN 2X 116](#_Toc102457553)

[BIN 4X 117](#_Toc102457554)

[BIN 44 118](#_Toc102457555)

[EPOXI TEMPERATURE PROBE 119](#_Toc102457556)

[EPOXI TEMPERATURE PROBE STIFF 120](#_Toc102457557)

[STEEL TEMPERATURE PROBE 121](#_Toc102457558)

[10K TEMPERATURE PROBE 122](#_Toc102457559)

[SQ-AmbienT 123](#_Toc102457560)

[Flat AmbienT 124](#_Toc102457561)

[FLAT SENSATO v2 125](#_Toc102457562)

[PRESENTIA C v2 126](#_Toc102457563)

[PRESENTIA W0 127](#_Toc102457564)

[PRESENTIA W1 128](#_Toc102457565)

[PRESENTIA W2 129](#_Toc102457566)

[EyeZen TP 130](#_Toc102457567)

[EyeZen IN 131](#_Toc102457568)

[EyeZen RF 915 132](#_Toc102457569)

[EyeZen RF 868 133](#_Toc102457570)

[WinDoor RF 915 – SUBJECT TO CHANGES 134](#_Toc102457571)

[WinDoor RF – SUBJECT TO CHANGES 135](#_Toc102457572)

[Door/Window flush-mounted contact – aluminium or wooden 136](#_Toc102457573)

[Door/Window flush-mounted contact – metal 137](#_Toc102457574)

[Door/Window surface-mounted contact – L 138](#_Toc102457575)

[Door/Window surface-mounted contact – S 139](#_Toc102457576)

[8. MULTIMEDIA 140](#_Toc102457577)

[AudioInRoom 141](#_Toc102457578)

[IRSC Open 142](#_Toc102457579)

[SKX Advance 143](#_Toc102457580)

[SKX Open 144](#_Toc102457581)

[9. KNX ENERGY SAVERS 145](#_Toc102457582)

[KES PLUS 146](#_Toc102457583)

[KCI 4 S0 147](#_Toc102457584)

[KEM 148](#_Toc102457585)

[10. SYSTEM 149](#_Toc102457586)

[ZPSU160 150](#_Toc102457587)

[ZPS320HIC110 151](#_Toc102457588)

[ZPS320HIC230 152](#_Toc102457589)

[ZPS640HIC110 153](#_Toc102457590)

[ZPS640HIC230 154](#_Toc102457591)

[Linecoupler CL 155](#_Toc102457592)

[Zennio KNX USB Interface 156](#_Toc102457593)

[IP Router CL 157](#_Toc102457594)

[KIPI 158](#_Toc102457595)

[KIPI SC 159](#_Toc102457596)

[ZMCoup RF 868 160](#_Toc102457597)

[ZMCoup RF 915 161](#_Toc102457598)

# TOUCH SCREENS

## **Z70 v2**

ZVIZ70V2

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Color** | **Reference** | | Black | ZVIZ70V2A | | Silver | ZVIZ70V2S | | White | ZVZ70V2W | | Gloss White | ZVZ70V2GW | |

Color capacitive touch panel of 7".

7” color touch display. Minimalist aesthetics, dominated by simple forms, lead to a timeless design that facilitates integration within working and living environments. Up to 144 controls to enable distributed communication within the intelligent home.

Up to 12 pages with up to 12 controls or indicators:

* Indicators: binary (icon or text), enumeration (icon or text), number, text.
* Controls with one or two buttons: switch with press type detection (icon, text, number), scene, enumeration (icon, text), number, shutters, lights (dimmer, RGB, RGBW).
* HVAC: setpoint, mode (heat/cool), special modes, fan control.

Temperature probe, proximity sensor, luminosity sensor.

Thermostat feature:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

4 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Licences for feature increasing:

* Ref. 8500006. Smartphone control licence.
* Ref. 8500007: Zennio GetFace IP integration licence. Remote callings.

Mounting box for installation:

* Ref. 9900010 - Standard double mounting box for brick walls
* Ref. 9900011 - Double mounting box for Dry-Wall.

## **Z41 COM**

ZVI-Z41COM

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Color** | **Reference** | | Black | ZVI-Z41COM-AP | | Silver | ZVI-Z41COM-SP | | White | ZVI-Z41COM-WP | |

Color Touch Display with Video Intercom function

4.1’’ color touch display with additional communication features: ethernet connection and video intercom (GetFace IP). Complying with minimalist aesthetics and with the control capabilities of Z41 family (up to 96 functions available), Z41 COM allows a complete communication in smart homes. These make it the perfect solution for controlling homes, rooms, offices, or generally, every environment where it is necessary to manage HVAC, lights, shutters, scenes, etc.[[1]](#footnote-1)

Up to 12 pages with up to 8 boxes that can be configured as:

* Indicators: binary (icon or text), enumeration (icon or text), different formats of number with histogram, text.
* Controls with one or two buttons: switch with press type detection (icon, text, number), scene, enumeration (icon, text), different formats of number (constant or counter), shutters, lights (dimmer, RGB, RGBW).
* HVAC: specific thermostat page, setpoint, mode (heat/cool), special modes, fan control.
* Others: energy, gas and water consumption, weekly and daily timers, crono-thermosat, macro, scheduler, logical function, alarm, holiday calendar, page direct link, video intercom, internal callings.

Video intercom compatible with Zennio GetFace IP with opening up to 3 doors (in each one). Internal callings. Doorbell feature and diferent ringtones, and Do Not Disturb (DND) feature. Remote callings through the free mobile app.

Other features: configurable screen orientation, wallpaper, sounds, security (pages and boxes password), screen lock and multi language.

Dedicated pages for configuration: time setting, temperature probe calibration, call log, alarm log, brightness, contrast, volume, theme.

Internal temperature probe and 2 Zennio thermostats:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

Ethernet port for remote control and alarm notification with push messages[[2]](#footnote-2) with smartphones or tablets using the app Z41 Remote without needing any other device.

Internal clock updatable through NTP. USB port for importing translations, logos or for software updating. 12-29VDC auxiliary power supply is required.

## **Z41 PRO**

ZVI-Z41PRO

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  |  | | --- | --- | --- | --- | | **Frame – Color** | **Reference** | **Frame – Color** | **Reference** | | Aluminium – Anthracite | ZVI-Z41PRO-A | Golden – Anthracite | ZVI-Z41PRO-AG | | Aluminium – Silver | ZVI-Z41PRO-S | Golden –  Silver | ZVI-Z41PRO-SG | | Aluminium – White | ZVI-Z41PRO-W | Golden –  White | ZVI-Z41PRO-WG | | Polycarbonate – Anthracite | ZVI-Z41PRO-AP | Chromed – Anthracite | ZVI-Z41PRO-AC | | Polycarbonate – Silver | ZVI-Z41PRO-SP | Chromed –  Silver | ZVI-Z41PRO-SC | | Polycarbonate – White | ZVI-Z41PRO-WP | Chromed–  White | ZVI-Z41PRO-WC | | Brass - White | ZVI-Z41PRO-WB | Brass - Anthracite | ZVI-Z41PRO-AB | | Brass - silver | ZVI-Z41PRO-SB |  |  | |

Color Touch Display with Ethernet connection

4.1’’ color touch display with ethernet connection. Complying with minimalist aesthetics and with the control capabilities of Z41 family (up to 96 functions available), Z41 COM allows a complete communication in smart homes. These make it the perfect solution for controlling homes, rooms, offices, or generally, every environment where it is necessary to manage HVAC, lights, shutters, scenes, etc.[[3]](#footnote-3)

Up to 12 pages with up to 8 boxes that can be configured as:

* Indicators: binary (icon or text), enumeration (icon or text), different formats of number with histogram, text.
* Controls with one or two buttons: switch with press type detection (icon, text, number), scene, enumeration (icon, text), different formats of number (constant or counter), shutters, lights (dimmer, RGB, RGBW).
* HVAC: setpoint, mode (heat/cool), special modes, fan control.
* Others: energy, gas and water consumption, weekly and daily timers, crono-thermosat, macro, scheduler, logical function, alarm, holiday calendar, page direct link.

Other features: configurable screen orientation, wallpaper(time, temperature, logo), sounds, security (pages and boxes password), screen lock and multi language.

Dedicated pages for configuration: time setting, temperature probe calibration, alarm log, brightness, contrast, volume, theme.

Internal temperature probe and 2 Zennio thermostats:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Ethernet port for remote control and alarm notification with push messages[[4]](#footnote-4) with smartphones or tablets using the app Z41 Remote without needing any other device.

Internal clock with battery updatable through NTP. USB port for importing translations, logos or for software updating. 12-29VDC auxiliary power supply is required.

## **Z41 Lite**

ZVI-Z41LIT

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  |  | | --- | --- | --- | --- | | **Frame – Color** | **Reference** | **Frame – Color** | **Reference** | | Aluminium – Anthracite | ZVI-Z41LIT-A | Golden – Anthracite | ZVI-Z41LIT-AG | | Aluminium – Silver | ZVI-Z41LIT-S | Golden –  Silver | ZVI-Z41LIT-SG | | Aluminium – White | ZVI-Z41LIT-W | Golden –  White | ZVI-Z41LIT-WG | | Polycarbonate – Anthracite | ZVI-Z41LIT-AP | Chromed – Anthracite | ZVI-Z41LIT-AC | | Polycarbonate – Silver | ZVI-Z41LIT-SP | Chromed –  Silver | ZVI-Z41LIT-SC | | Polycarbonate – White | ZVI-Z41LIT-WP | Chromed–  White | ZVI-Z41LIT-WC | | Brass - White | ZVI-Z41LIT-WB | Brass - Anthracite | ZVI-Z41LIT-AB | | Brass - silver | ZVI-Z41LIT-SB |  |  | |

Color Touch Display

4.1’’ color touch display with ethernet connection. Complying with minimalist aesthetics and with the control capabilities of Z41 family (up to 96 functions available), Z41 COM allows a complete communication in smart homes. These make it the perfect solution for controlling homes, rooms, offices, or generally, every environment where it is necessary to manage HVAC, lights, shutters, scenes, etc.[[5]](#footnote-5)

Up to 12 pages with up to 8 boxes that can be configured as:

* Indicators: binary (icon or text), enumeration (icon or text), different formats of number with histogram, text.
* Controls with one or two buttons: switch with press type detection (icon, text, number), scene, enumeration (icon, text), different formats of number (constant or counter), shutters, lights (dimmer, RGB, RGBW).
* HVAC: setpoint, mode (heat/cool), special modes, fan control.
* Others: energy, gas and water consumption, weekly and daily timers, crono-thermosat, macro, scheduler, logical function, alarm, holiday calendar, page direct link.

Other features: configurable screen orientation, wallpaper (time, temperature, logo), sounds, security (pages and boxes password), screen lock and multi language.

Dedicated pages for configuration: time setting, temperature probe calibration, alarm log, brightness, contrast, volume, theme.

Internal temperature probe and 2 Zennio thermostats:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Internal clock with battery. USB port for importing translations, logos or for software updating. 12-29VDC auxiliary power supply is required.

## Z40

ZVIZ40

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Color** | **Reference** | | Black | ZVIZ40A | | Silver | ZVIZ40S | | White | ZVIZ40W | | Gloss white | ZVIZ40GW | |

Capacitive touch panel

High-performance 4’’ touch screen with backlighted home button. Both features and functionalities make it to the perfect and integral solution for controlling rooms, hotel rooms, offices, or generally, every environment where it is necessary to manage HVAC, lights, shutters, scenes, etc. [[6]](#footnote-6)

Up to 56 controls which are distributed in up to 7 pages with up to 6 boxes with customizable color icons:

* Indicators: binary (icon or text), enumeration (icon or text), number (different formats), temperature, text.
* Controls with one or two buttons: switch with press type detection (icon, text), scene, enumeration (icon, text), different formats of number (constant or counter), shutters, lights (dimmer, RGB, RGBW).
* HVAC: setpoint, mode (heat/cool), special modes, fan control.
* Others: weekly and daily timers, alarm, page direct link.

Integral magement of HVAC with thermostat special pages type, Cesius and Fahrenheit scales, integrated temperature probe and 2 thermostats:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

Other features: wallpaper (time, temperature, picture), confirmation sounds, security (pages and boxes password), screen lock, temporized lock (cleaning function), welcome greeting, welcome back object, multi language.

Configuration page for managing: brightness, sound, probe calibration, time/date, etc.

Brightness sensor for automatic backlight level, proximity sensor for quick on.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## Z35

ZVI-Z35

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Color** | **Reference** | | Black | ZVI-Z35-A | | Silver | ZVI-Z35-S | | White | ZVI-Z35-W | | Gloss white | ZVI-Z35-GW | |

Capacitive touch panel

High-performance 3.5’’ touch screen with backlighted home button. Both features and functionalities make it to the perfect and integral solution for controlling rooms, hotel rooms, offices, or generally, every environment where it is necessary to manage HVAC, lights, shutters, scenes, etc. [[7]](#footnote-7)

Up to 56 controls which are distributed in up to 7 pages with up to 6 boxes with customizable color icons:

* Indicators: binary (icon or text), enumeration (icon or text), number (different formats), temperature, text.
* Controls with one or two buttons: switch with press type detection (icon, text), scene, enumeration (icon, text), different formats of number (constant or counter), shutters, lights (dimmer, RGB, RGBW).
* HVAC: setpoint, mode (heat/cool), special modes, fan control.
* Others: weekly and daily timers, alarm, page direct link.

Integral magement of HVAC with thermostat special pages type, Cesius and Fahrenheit scales, integrated temperature probe and 2 thermostats:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

Other features: wallpaper (time, temperature, picture), confirmation sounds, security (pages and boxes password), screen lock, temporized lock (cleaning function), welcome greeting, welcome back object, multi language.

Configuration page for managing: brightness, sound, probe calibration, time/date, etc.

Brightness sensor for automatic backlight level, proximity sensor for quick on.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

# CAPACITIVE TOUCH SWITCHES

## **Touch-My Design Plus 4**

ZVI-TMDP4

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Frame/Color** | **Reference** | | Aluminium/Anthracite | ZVI-TMDP4-AA | | Aluminium/White | ZVI-TMDP4-AW | | Aluminium/Custom | ZVI-TMDP4 | | Golden/Custom | ZVI-TMDP4-G | | Chromed/Custom | ZVI-TMDP4-C | | PC-ABS/Anthracite | ZVI-TMDP4-PA | | PC-ABS /Silver | ZVI-TMDP4-PS | | PC-ABS / White | ZVI-TMDP4-PW | | PC-ABS /Custom | ZVI-TMDP4-P | |

KNX Capacitive Touch Switch 4 Push Buttons and 5 Auxiliary Push Buttons. TMD family.

Capacitive push buttons with 4+5 buttons with LED indicators. Intuitive and fully customisable solution for control lights, blinds, scene, etc in hotel rooms, offices or any other environment. Completely customizable design with the “On-line application Touch-MyDesign”. [[8]](#footnote-8)

4 main buttons that can be configured as individuals or couples: switch with press type detection, scene, constant (different formats), shutters, dimmer.

5 auxiliary buttons that can be configured as temperature setpoint, number or as individual buttons with the previous functions.

Custom LED brightness, touch lock, welcome back object, sounds configurable device orientation.

Internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

Touch-My Design Plus 6

ZVI-TMDP6

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Frame/Color** | **Reference** | | Aluminium/Anthracite | ZVI-TMDP6-AA | | Aluminium/White | ZVI-TMDP6-AW | | Aluminium/Custom | ZVI-TMDP6 | | Golden/Custom | ZVI-TMDP6-G | | Chromed/Custom | ZVI-TMDP6-C | | PC-ABS/Anthracite | ZVI-TMDP6-PA | | PC-ABS /Silver | ZVI-TMDP6-PS | | PC-ABS / White | ZVI-TMDP6-PW | | PC-ABS /Custom | ZVI-TMDP6-P | |

KNX Capacitive Touch Switch 6 Push Buttons and 5 Auxiliary Push Buttons. TMD family.

Capacitive push buttons with 6+5 buttons with LED indicators. Intuitive and fully customisable solution for control lights, blinds, scene, etc in hotel rooms, offices or any other environment. Completely customizable design with the “On-line application Touch-MyDesign”. [[9]](#footnote-9)

6 main buttons that can be configured as individuals or couples: switch with press type detection, scene, constant, shutters, dimmer.

5 auxiliary buttons that can be configured as temperature setpoint, number or as individual buttons with the previous functions.

Custom LED brightness, touch lock, welcome back object, sounds configurable device orientation.

Internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## **Touch-My Design Plus 8**

ZVI-TMDP8

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Frame/Color** | **Reference** | | Aluminium/Anthracite | ZVI-TMDP8-AA | | Aluminium/White | ZVI-TMDP8-AW | | Aluminium/Custom | ZVI-TMDP8 | | Golden/Custom | ZVI-TMDP8-G | | Chromed/Custom | ZVI-TMDP8-C | | PC-ABS/Anthracite | ZVI-TMDP8-PA | | PC-ABS /Silver | ZVI-TMDP8-PS | | PC-ABS / White | ZVI-TMDP8-PW | | PC-ABS /Custom | ZVI-TMDP8-P | |

KNX Capacitive Touch Switch 8 Push Buttons and 5 Auxiliary Push Buttons. TMD family.

Capacitive push buttons with 8+5 buttons with LED indicators. Intuitive and fully customisable solution for control lights, blinds, scene, etc in hotel rooms, offices or any other environment. Completely customizable design with the “On-line application Touch-MyDesign”. [[10]](#footnote-10)

8 main buttons that can be configured as individuals or couples: switch with press type detection, scene, constant, shutters, dimmer.

5 auxiliary buttons that can be configured as temperature setpoint, number or as individual buttons with the previous functions.

Custom LED brightness, touch lock, welcome back object, sounds, configurable device orientation.

Internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## TMD-Display One

ZVI-TMDD

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Frame** | **Reference** | | Aluminium | ZVI-TMDD | | PC-ABS | ZVI-TMDD-P | | Golden | ZVI-TMDD-G | | Chromed | ZVI-TMDD-C | |

Room controller with 8 capacitive touch buttons and display. TMD family.

Capacitive touch switch with 8 capacitive buttons and 1.8” display, fully customisable solution for the room control, including hotel rooms, offices or any other environment where the user needs to HVAC climate systems, lighting, blinds, scenes, etc. The versatility of the above functions is enhanced by an elegant and fully customisable design of the front glass. Moreover, the display offers the possibility to show useful information to the user about the states of the management systems. [[11]](#footnote-11)

8 capacitive buttons with LED indicators that can be configured as individuals or couples: switch with press type detection, scene, numeric, enumeration, shutters, dimmer, setpoint, climate mode, climate fan.

Display with up to 8 boxes with different representation ways (permanent, temporary, intermittent, progressive) and hidden by object. They can be configured as: on/off (text, icon), enumeration (text, icon), different formats of number, time of day, text from object, temperature, climate mode, climate fan, climate “on/off + mode + status”.

Other features: screensaver (time of day, temperature), sounds, LEDs, display and sound custom configuration, translations, touch locking and temporized touch locking (cleaning function), welcome greeting on the display and welcome back object, central touch area, temperature scale (ºC/ºF).

Internal temperature sensor and 2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, and occupation detection algorithm. Without luminosity detection.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## TMD-Display View

ZVI-TMDV

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Frame/Color** | **Reference** | | Aluminium/Anthracite | ZVI-TMDV-AA | | Aluminium/White | ZVI-TMDV-AW | | Aluminium/Custom | ZVI-TMD | | Golden/Custom | ZVI-TMDV-G | | Chromed/Custom | ZVI-TMDV-C | | PC-ABS/Anthracite | ZVI-TMDV-PA | | PC-ABS/White | ZVI-TMDV-PW | | PC-ABS/Custom | ZVI-TMDV-P | |

Room controller with capacitive buttons and display with up to 32 functions in 4 pages. TMD family.

Capacitive touch panel with 1,8” display. With up to 32 functions in 4 pages with 8 buttons each one, this device is useful for managing rooms with a lot of managed systems: HVAC, shutters, lightings, etc. The versatility of the above functions is enhanced by an elegant and fully customisable design of the front glass – customers can choose their button icons, texts and colours and even personalise the background with their pictures, logos, etc.

4 pages with 8 controllers that are configurable as couple or individual. that can be configured as individuals or couples: indicator, switch with press type detection, scene, numeric, enumeration, shutters, dimmer, setpoint, climate mode, climate fan, multimedia.

Configuration special pages for display (brightness, contrast) configuration, time, reset.

8 capacitive push buttons with LED indicators and central area for page switching (slide, single button or two buttons).

Other features: screensaver (time of day, temperature), sound, LEDs and display custom configuration, customizable texts, touch locking and temporized touch locking, welcome back object.

Internal temperature sensor and 2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, and occupation detection algorithm. Without luminosity detection.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Square TMD 1

ZVI-SQTMD1

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | **Frame** | **Design/Color** | **Reference** | | Polycarbonate | Customized | ZVI-SQTMD1-CUS | | Polycarbonate | Standard/Black | ZVI-SQTMD1-A | | Polycarbonate | Standard/Silver | ZVI-SQTMD1-S | | Polycarbonate | Standard/White | ZVI-SQTMD1-W | |

Capacitive touch panel with 1 button of TMD family.

Capacitive touch panel of TMD family with square design and 1 button. This device is a fully customisable solution for the room control, including hotel rooms, offices or any other environment where the user needs to control climate systems, lighting, blinds, scenes, etc. Front glass elegant and fully customisable design. [[12]](#footnote-12)

1 button that can be configured as: switch with press type detection, scene, constant, shutters, dimmer.

Custom LED brightness, touch lock, welcome back object, sounds.

Internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).

2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Square TMD 2

ZVI-SQTMD2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | **Frame** | **Design/Color** | **Reference** | | Polycarbonate | Customized | ZVI-SQTMD2-CUS | | Polycarbonate | Standard/Black | ZVI-SQTMD2-A | | Polycarbonate | Standard/Silver | ZVI-SQTMD2-S | | Polycarbonate | Standard/White | ZVI-SQTMD2-W | |

Capacitive touch panel with 2 buttons of TMD family.

Capacitive touch panel of TMD family with square design and 2 buttons. This device is a fully customisable solution for the room control, including hotel rooms, offices or any other environment where the user needs to control climate systems, lighting, blinds, scenes, etc. Front glass elegant and fully customisable design. [[13]](#footnote-13)

2 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer.

Custom LED brightness, touch lock, welcome back object, sounds configurable device orientation.

Internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).

2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Square TMD 4

ZVI-SQTMD4

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | **Frame** | **Design/Color** | **Reference** | | Polycarbonate | Customized | ZVI-SQTMD4-CUS | | Polycarbonate | Standard/Black | ZVI-SQTMD4-A | | Polycarbonate | Standard/Silver | ZVI-SQTMD4-S | | Polycarbonate | Standard/White | ZVI-SQTMD4-W | |

Capacitive touch panel with 4 buttons of TMD family.

Capacitive touch panel of TMD family with square design and 4 buttons. This device is a fully customisable solution for the room control, including hotel rooms, offices or any other environment where the user needs to control climate systems, lighting, blinds, scenes, etc. Front glass elegant and fully customisable design. [[14]](#footnote-14)

4 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer.

Custom LED brightness, touch lock, welcome back object, sounds.

Internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).

2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Square TMD 6

ZVI-SQTMD6

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | **Frame** | **Design/Color** | **Reference** | | Polycarbonate | Customized | ZVI-SQTMD6-CUS | | Polycarbonate | Standard/Black | ZVI-SQTMD6-A | | Polycarbonate | Standard/Silver | ZVI-SQTMD6-S | | Polycarbonate | Standard/White | ZVI-SQTMD6-W | |

Capacitive touch panel with 6 buttons of TMD family.

Capacitive touch panel of TMD family with square design and 6 buttons. This device is a fully customisable solution for the room control, including hotel rooms, offices or any other environment where the user needs to control climate systems, lighting, blinds, scenes, etc. Front glass elegant and fully customisable design. [[15]](#footnote-15)

6 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer.

Custom LED brightness, touch lock, welcome back object, sounds configurable device orientation.

Internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).

2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Square TMD-Display

ZVI-STMDD

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | **Frame** | **Design/Color** | **Reference** | | Polycarbonate | Customized | ZVI-SQTMDD | |

Room controller with 5 capacitive touch buttons and display. TMD family.

Capacitive touch switch with 5 capacitive buttons and 1.8” display of TMD family with square design. Fully customisable solution for the room control, including hotel rooms, offices or any other environment where the user needs to HVAC climate systems, lighting, blinds, scenes, etc. Front glass with elegant and fully customisable design. [[16]](#footnote-16)

5 capacitive buttons with LED indicators that can be configured as individuals or couples: switch with press type detection, scene, numeric, enumeration, shutters, dimmer, setpoint, climate mode, climate fan.

Display with up to 8 boxes with different representation ways (permanent, temporary, intermittent, progressive) and hidden by object. They can be configured as: on/off (text, icon), enumeration (text, icon), different formats of number, time of day, text from object, temperature, climate mode, climate fan, climate “on/off + mode + status”.

Other features: screensaver (time of day, temperature), sounds, LEDs, display and sound custom configuration, translations, touch locking and temporized touch locking (cleaning function), welcome greeting on the display and welcome back object, central touch area, temperature scale (ºC/ºF).

Internal temperature sensor and 2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, and occupation detection algorithm. Without luminosity detection.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Flat 1 v2

ZVI-F1

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIF1V2 | | Anthracite | ZVIF1V2A | | Silver | ZVIF1V2S | | White | ZVIF1V2W | | Gloss White | ZVIF1V2GW | |

Flat capacitive switch 1 button

Backlighted capacitive touch switches in Flat family (flat design 9mm), total customization and backlighted icons which regulate their brightness with the included ambient luminosity sensor and attenuate when the user is not detected by the proximity sensor. [[17]](#footnote-17)

1 button that can be configured as: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object.

Ambient luminosity sensor, proximity sensor and internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Flat 2 v2

ZVIF2V2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIF2V2 | | Anthracite | ZVIF2V2A | | Silver | ZVIF2V2S | | White | ZVIF2V2W | | Gloss White | ZVIF2V2GW | |

Flat capacitive switch 2 buttons

Backlighted capacitive touch switches in Flat family (flat design 9mm), total customization and backlighted icons which regulate their brightness with the included ambient luminosity sensor and attenuate when the user is not detected by the proximity sensor. [[18]](#footnote-18)

2 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object, configurable device orientation.

Ambient luminosity sensor, proximity sensor and internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Flat 4 v2

ZVIF4V2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIF4V2 | | Anthracite | ZVIF4V2A | | Silver | ZVIF4V2S | | White | ZVIF4V2W | | Gloss White | ZVIF4V2GW | |

Flat capacitive switch 4 buttons

Backlighted capacitive touch switches in Flat family (flat design 9mm), total customization and backlighted icons which regulate their brightness with the included ambient luminosity sensor and attenuate when the user is not detected by the proximity sensor. [[19]](#footnote-19)

4 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object.

Ambient luminosity sensor, proximity sensor and internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Flat 6 v2

ZVIF6V2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIF6V2 | | Anthracite | ZVIF6V2A | | Silver | ZVIF6V2S | | White | ZVIF6V2W | | Gloss White | ZVIF6V2GW | |

Flat capacitive switch 6 buttons

Backlighted capacitive touch switches in Flat family (flat design 9mm), total customization and backlighted icons which regulate their brightness with the included ambient luminosity sensor and attenuate when the user is not detected by the proximity sensor.

[[20]](#footnote-20)

6 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object, configurable device orientation.

Ambient luminosity sensor, proximity sensor and internal temperature probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Flat Display v2

ZVIFDV2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIFDV2 | |

Capacitive touch panel with display and humidity probe

Backlit capacitive touch panel in Flat family, with proximity and humidity sensor, flat design (9 mm) and total customization. Everyone can create unique compositions, including images, icons, texts or logos, which are printed on a high-strength tempered glass. Room control is simple with the 5 buttons available and up to 8 indicators can be shown on its 2.4" display. The backlit icons for buttons regulate their brightness with the included ambient luminosity sensor and attenuate when the user is not detected by the proximity sensor. Flat Display v2 includes internal temperature probe and humidity sensor, as well as a thermostat and 2 analog-digital inputs that may be configured for potential-free sensors and push buttons, temperature probes or motion sensors. [[21]](#footnote-21)

5 buttons that can be configured as couple or individual: switch with press type detection, enumeration scene, numeric (constant or counter), shutters, dimmer, room state, multimedia, setpoint, climate mode, fan speed, indicator.

Display with up to 8 boxes with different representation ways (permanent, temporary, intermittent, progressive) and hidden by object. They can be configured as: on/off (text, icon), enumeration (text, icon), different formats of number, text from object, temperature, climate mode, climate fan, climate “on/off + mode + status”.

Display can be configured as thermostat with central area dedicated to temperature, lateral box for fan speed indicator or double small boxes and lateral box with up to 2 small boxes. Small boxes can be configured as already explained.

Screensaver (Time/Date and temperature), translations, custom backlight brightness, custom sounds, touch lock, temporized touch lock (cleaning function), welcome greeting, welcome back object, temperature scales.

Ambient luminosity sensor, proximity sensor and internal temperature and humidity probe.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

## Flat 55 X1 v2

ZVIF55X1V2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIF55X1V2 | | Anthracite | ZVIF55X1V2A | | Silver | ZVIF55X1V2S | | White | ZVIF55X1V2W | | Gloss White | ZVIF55X1V2GW | |

Flat 55 capacitive switch – 1 Button

Backlighted capacitive touch switches in Flat 55 family with flat design (9mm) and total customization. Backlighted icons regulate their brightness with both ambient luminosity and proximity sensor. [[22]](#footnote-22)

1 button that can be configured as: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object.

Ambient luminosity sensor and proximity sensor.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

To be installed in standard boxes with 55x55 frames with 1/2/3/4 modules. Frames are not included.

Flush fitting with Zennio ZS55 frames switches and sockets.

## Flat 55 X2 v2

ZVIF55X2V2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIF55X2V2 | | Anthracite | ZVIF55X2V2A | | Silver | ZVIF55X2V2S | | White | ZVIF55X2V2W | | Gloss White | ZVIF55X2V2GW | |

Flat 55 capacitive switch – 2 Buttons

Backlighted capacitive touch switches in Flat 55 family with flat design (9mm) and total customization. Backlighted icons regulate their brightness with both ambient luminosity and proximity sensor.[[23]](#footnote-23)

2 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object, configurable device orientation.

Ambient luminosity sensor and proximity sensor.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

To be installed in standard boxes with 55x55 frames with 1/2/3/4 modules. Frames are not included.

Flush fitting with Zennio ZS55 frames switches and sockets.

## Flat 55 X4 v2

ZVIF55X4V2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIF55X4V2 | | Anthracite | ZVIF55X4V2A | | Silver | ZVIF55X4V2S | | White | ZVIF55X4V2W | | Gloss White | ZVIF55X4V2GW | |

Flat 55 capacitive switch – 4 Buttons

Backlighted capacitive touch switches in Flat 55 family with flat design (9mm) and total customization. Backlighted icons regulate their brightness with both ambient luminosity and proximity sensor. [[24]](#footnote-24)

4 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object.

Ambient luminosity sensor and proximity sensor.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

To be installed in standard boxes with 55x55 frames with 1/2/3/4 modules. Frames are not included.

Flush fitting with Zennio ZS55 frames switches and sockets.

## Flat 55 Display v2

ZVIF55DV2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIF55DV2 | |

Capacitive touch panel with display (55 x 55 mm).

Backlit capacitive touch panel with round display in Flat 55 family (standard frames 55 x 55 mm), with proximity sensor, flat design, with total customisation. Flush fitting with Zennio ZS55 frames, switches and sockets. Anyone can create unique compositions, including images, icons, texts or logos, which are printed on a high-strength tempered glass. Room control is simple with the 4 buttons available and up to 4 indicators can be shown on its central display. The backlit icons for buttons regulate their brightness with the included ambient luminosity sensor and attenuate when the user is not detected by the proximity sensor. Flat 55 Display v2 includes a thermostat, as well as 2 analog-digital inputs that may be configured for potential-free sensors and push buttons, temperature probes or motion sensors. Installation in standard mounting box with 55 x 55 frames of 1/2/3/4 modules. [[25]](#footnote-25)

4 buttons that can be configured as couple or individual: switch with press type detection, enumeration scene, numeric (constant or counter), shutters, dimmer, room state, setpoint, climate mode, fan speed, indicator.

Display can be configured as regular display or as a thermostat screen.

Display with up to 4 boxes with different representation ways (permanent, temporary, intermittent, progressive) and hidden by object. They can be configured as: on/off (text, icon), enumeration (text, icon), different formats of number, text from object, temperature, climate mode, climate fan, climate “on/off + mode + status”.

Screensaver (Time and temperature), custom backlight brightness, sounds, touch lock, temporized touch lock (cleaning function), welcome greeting, welcome back object, temperature scales, warning (for example door open).

Ambient luminosity sensor, proximity sensor and included temperature probe (ref.9900015).

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

To be installed in standard boxes with 55x55 frames with 1/2/3/4 modules. Frames are not included.

Flush fitting with Zennio ZS55 frames switches and sockets.

## Tecla 55 X1

ZVIT55X1

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIT55X1 | | Anthracite | ZVIT55X1A | | Silver | ZVIT55X1S | | White | ZVIT55X1W | |

Tecla 55 capacitive switch – 1 Button

Flush fitting polycarbonate capacitive touch switch with 1 button with customisable icon, to be combined with 55 x 55 mm frames and Zennio ZS55 switches and sockets. Backlit icon that adapts according to ambient luminosity and proximity sensor. It incorporates a thermostat and one input for temperature probe. Installation in standard back box with 55 x 55 1 to 4-gang frame. [[26]](#footnote-26)

1 button that can be configured as: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object.

Ambient luminosity sensor and proximity sensor.

Analogue input that can be configurable like temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

To be installed in standard boxes with 55x55 frames with 1/2/3/4 modules. Frames are not included.

Flush fitting with Zennio ZS55 frames switches and sockets.

## Tecla 55 X2

ZVIT55X2

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIT55X2 | | Anthracite | ZVIT55X2A | | Silver | ZVIT55X2S | | White | ZVIT55X2W | |

Tecla 55 capacitive switch – 2 Buttons

Flush fitting polycarbonate capacitive touch switch with 1 button with customisable icon, to be combined with 55 x 55 mm frames and Zennio ZS55 switches and sockets. Backlit icon can adapt its intensity according to ambient luminosity and proximity sensor. It incorporates a thermostat and one input for temperature probe. Installation in standard back box with 55 x 55 1 to 4-gang frames. [[27]](#footnote-27)

2 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object, configurable device orientation.

Ambient luminosity sensor and proximity sensor.

Analogue input that can be configurable like temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

To be installed in standard boxes with 55x55 frames with 1/2/3/4 modules. Frames are not included.

Flush fitting with Zennio ZS55 frames switches and sockets.

## Tecla 55 X2 Sign

ZVIT55X2S

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Anthracite | ZVIT55X2SA | | Silver | ZVIT55X2SS | | White | ZVIT55X2SW | |

Device intended for the selection and notification of the states DND/MUR through color backlit icons.

Flush fitting polycarbonate capacitive touch switch with 2 buttons with DND/MUR icons, to be combined with 55 x 55 mm frames and Zennio ZS55 switches and sockets. Backlit icons can adapt their intensity according to ambient luminosity and proximity sensor. It incorporates a thermostat and one input for temperature probe. Installation in standard back box with 55 x 55 1 to 4-gang frames. [[28]](#footnote-28)

Notification of room state: Make-Up Room (MUR), Do Not Disturb (DND), Make-Up in Progress and occupation status.

2 buttons that can be configured as individual: Checking occupancy status or triggering the Make-Up in Progress status.

Custom backlight brightness, custom sounds, touch lock, configurable device orientation.

Ambient luminosity sensor and proximity sensor for automatic luminosity adjustment.

Analogue input that can be configurable like temperature probe with protection features (overheating, overcooling).

To be installed in standard boxes with 55x55 frames with 1/2/3/4 modules. Frames are not included.

Flush fitting with Zennio ZS55 frames switches and sockets.

Tecla 55 X2 Sign application program can be downloaded to Tecla 55 X2 and vice versa.

## Tecla 55 X4

ZVIT55X4

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIT55X4 | | Anthracite | ZVIT55X4A | | Silver | ZVIT55X4S | | White | ZVIT55X4W | |

Tecla 55 capacitive switch – 4 Buttons

Flush fitting polycarbonate capacitive touch switch with 4 buttons with customisable icons, to be combined with 55 x 55 mm frames and Zennio ZS55 switches and sockets. Backlit icons can adapt their intensity according to ambient luminosity and proximity sensor. It incorporates a thermostat and one input for temperature probe. Installation in standard back box with 55 x 55 1 to 4-gang frames. [[29]](#footnote-29)

4 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object.

Ambient luminosity sensor and proximity sensor.

Analogue input that can be configurable like temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

To be installed in standard boxes with 55x55 frames with 1/2/3/4 modules. Frames are not included.

Flush fitting with Zennio ZS55 frames switches and sockets.

## Tecla 55 X6

ZVIT55X6

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVIT55X6 | | Anthracite | ZVIT55X6A | | Silver | ZVIT55X6S | | White | ZVIT55X6W | |

Tecla 55 capacitive switch – 6 Buttons

Flush fitting polycarbonate capacitive touch switch with 6 buttons with customisable icons, to be combined with 55 x 55 mm frames and Zennio ZS55 switches and sockets. Backlit icons can adapt their intensity according to ambient luminosity and proximity sensor. It incorporates a thermostat and one input for temperature probe. Installation in standard back box with 55 x 55 1 to 4-gang frames. [[30]](#footnote-30)

6 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object, configurable device orientation.

Ambient luminosity sensor and proximity sensor.

Analogue input that can be configurable like temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

To be installed in standard boxes with 55x55 frames with 1/2/3/4 modules. Frames are not included.

Flush fitting with Zennio ZS55 frames switches and sockets.

## Tecla XL X4 – SUBJECT TO CHANGES

ZVITXLX4

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVITXLX4 | | Anthracite | ZVITXLX4A | | Silver | ZVITXLX4S | | White | ZVITXLX4W | |

Tecla XL capacitive switch – 4 Buttons

Capacitive touch switch of polycarbonate with customizable and backlighted icons which regulate their brightness with both ambient luminosity and proximity sensor. [[31]](#footnote-31)

4 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object.

Ambient luminosity sensor and proximity sensor.

Analogue input that can be configurable like temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

Compatible with Italian, American and Australian mounting boxes.

## Tecla XL X6 – SUBJECT TO CHANGES

ZVITXLX6

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVITXLX6 | | Anthracite | ZVITXLX6A | | Silver | ZVITXLX6S | | White | ZVITXLX6W | |

Tecla XL capacitive switch – 6 Buttons

Capacitive touch switch of polycarbonate with customizable and backlighted icons which regulate their brightness with both ambient luminosity and proximity sensor. [[32]](#footnote-32)

6 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object.

Ambient luminosity sensor and proximity sensor.

Analogue input that can be configurable like temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

Compatible with Italian, American and Australian mounting boxes.

## Tecla XL X8 – SUBJECT TO CHANGES

ZVITXLX8

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVITXLX8 | | Anthracite | ZVITXLX8A | | Silver | ZVITXLX8S | | White | ZVITXLX8W | |

Tecla XL capacitive switch – 4 Buttons

Capacitive touch switch of polycarbonate with customizable and backlighted icons which regulate their brightness with both ambient luminosity and proximity sensor. [[33]](#footnote-33)

8 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object.

Ambient luminosity sensor and proximity sensor.

Analogue input that can be configurable like temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

Compatible with Italian, American and Australian mounting boxes.

## Tecla XL X10 – SUBJECT TO CHANGES

ZVITXLX10

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Design** | **Reference** | | Custom | ZVITXLX10 | | Anthracite | ZVITXLX10A | | Silver | ZVITXLX10S | | White | ZVITXLX10W | |

Tecla XL capacitive switch – 10 Buttons

Capacitive touch switch of polycarbonate with customizable and backlighted icons which regulate their brightness with both ambient luminosity and proximity sensor. [[34]](#footnote-34)

10 buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

Custom backlight brightness, custom sounds, touch lock, welcome back object.

Ambient luminosity sensor and proximity sensor.

Analogue input that can be configurable like temperature probe with protection features (overheating, overcooling).

Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

Compatible with Italian, American and Australian mounting boxes.

# ACCESSORIES

## **Accessory for dry-wall flush mounting for Z41 and TMD family**

ZAC-FLTMD

|  |  |
| --- | --- |
| \\192.168.70.40\Zennio\04-DISEÑO\MATERIAL DISEÑO\RENDERS PRODUCTOS\0_ACCESORIOS Y CONECTORES\Enrasadores pared\Familia Z41 & TMD\2000x2000\ZAC-FLTMD_2000x2000.png | C:\Users\Fernando\AppData\Local\Temp\Rar$DIa0.509\Z41-Pro_black_ES_03.jpg |

Accessory for dry-wall flush mounting for Z41 and TMD family

Suitable for dry-walls[[35]](#footnote-35). It allows panel thickness from 13 to 18 mm.

Made with waterproof medium density fibreboard, with dimensions 180x150x13,6 mm.

2 types of rear supplements to be used as thickness adaptors (1 and 2mm thick)

|  |  |
| --- | --- |
| Zennio compatible devices | Touch-My Design Plus (4/6/8) family  TMD-Display One  TMD-Display View  Z41 Pro  Z41 Lite |
| Warning | Only for devices with polycarbonate frames |
| Observations | Internal temperature probe of the device loses its functionality |

## **Accessory for dry-wall flush mounting for SQTMD family**

ZAC-FLSQTMD

|  |  |
| --- | --- |
| \\192.168.70.40\Zennio\04-DISEÑO\MATERIAL DISEÑO\RENDERS PRODUCTOS\0_ACCESORIOS Y CONECTORES\Enrasadores pared\Familia Square TMD\2000x2000\ZAC-FLSQTMD_2000x2000.jpg | C:\Users\Fernando\AppData\Local\Temp\Rar$DIa0.927\SQTMDD_white_enrasado.jpg |

Accessory for dry-wall flush mounting for SQTMD family

Suitable for dry-walls[[36]](#footnote-36). It allows panel thickness from 13 to 18 mm.

Made with waterproof medium density fibreboard, with dimensions 150x150x13,6 mm.

2 types of rear supplements to be used as thickness adaptors (1 and 2mm thick)

|  |  |
| --- | --- |
| Zennio compatible devices | Square TMD (1/2/4/6) family  Square TMD-Display |
| Warning | Only for devices with polycarbonate frames |
| Observations | Internal temperature probe of the device loses its functionality |

# ACTUATORS

## ALLinBOX 1612 v2

ZPR1612V2

|  |  |
| --- | --- |
|  |  |

**Multifunction device with power supply, IP-KNX Interface, 16 outputs, 12 inputs and logical module.**

Multifunction actuator for up to 16 outputs (2-relay block sharing neutral wire), 12 analogue/digital inputs, logical module (logical functions, thermostats, master light, etc). Both KNX power supply and KNX-IP interface are included. [[37]](#footnote-37)

Universal KNX power supply 640mA 230VAC/110VAC. KNX-IP interface.

16 individual multifunction outputs 16A (140μF capacitive loads):

* Up to 16 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 8 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.
* Up to 2 fan coil controllers with the following configurable features: cooling, heating or both modes, applied to the valve control or applied to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.
  + Fan features: relay management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
  + Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

12 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling). Custom temperature probe.

4 Zennio Thermostats and 4 Hospitality Thermostats with special functions that are oriented for hospitality:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

20 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Other features: 2 master light function, scene temporization and relay switch counter.

## ALLinBOX 88

ZPR88

|  |  |
| --- | --- |
|  |  |

**Multifunction device with power supply, IP-KNX Interface, 8 outputs, 8 inputs and logical module.**

Multifunction actuator for up to 8 outputs (2-relay block sharing neutral wire), 8 analogue/digital inputs, logical module (logical functions, thermostats, master light, etc). Both KNX power supply and KNX-IP interface are included. [[38]](#footnote-38)

Universal KNX power supply 640mA 230VAC/110VAC. KNX-IP interface.

8 individual multifunction outputs 16A (140μF capacitive loads):

* Up to 8 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 4 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.
* Up to 1 fan coil controller with the following configurable features: cooling, heating or both modes, applied to the valve control or applied to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.
  + Fan features: relay management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
  + Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

8 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling). Custom temperature probe.

4 Zennio Thermostats and 4 Hospitality Thermostats with special functions that are oriented for hospitality:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

20 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Other features: 2 master light function, scene temporization and relay switch counter.

## ALLinBOX 46

ZPR46

|  |  |
| --- | --- |
|  |  |

**Multifunction device with power supply, IP-KNX Interface, 4 outputs, 6 inputs and logical module.**

Multifunction actuator for up to 4 outputs, 6 analogue/digital inputs, logical module (logical functions, thermostats, master light, etc). Both KNX power supply and KNX-IP interface are included. [[39]](#footnote-39)

Universal KNX power supply 160mA 230VAC/110VAC. KNX-IP interface.

4 individual multifunction outputs 16A (140μF capacitive loads):

* Up to 4 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 2 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.
* Up to 1 fan coil controller with the following configurable features: cooling, heating or both modes, applied to the valve control or applied to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.
  + Fan features: relay management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
  + Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

6 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling). Custom temperature probe.

4 Zennio Thermostats and 4 Hospitality Thermostats with special functions that are oriented for hospitality:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

20 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Other features: 2 master light function, scene temporization and relay switch counter.

## ALLinBOX Hospitality

ZPRHP

|  |  |
| --- | --- |
|  |  |

**Multifunction device with power supply, IP-KNX Interface, 2-pipe FCU controller and 6 a/d inputs.**

Multifunction actuator for 2-pipe FCU and 1 multifunction output, 6 analogue/digital inputs, logical module (logical functions, thermostats, master light, etc). Both KNX power supply and KNX-IP interface are included. [[40]](#footnote-40)

Universal KNX power supply 160mA 230VAC/110VAC. KNX-IP interface.

A 2-pipe fan coil controller with the following configurable features: cooling, heating or both modes, applied to the valve control or applied to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization, and custom actions with bus failure.

* Fan features: relay management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
* Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

1 individual multifunction outputs 16A (140μF capacitive loads) with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.

6 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling). Custom temperature probe.

4 Zennio Thermostats and 4 Hospitality Thermostats with special functions that are oriented for hospitality:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

20 logical functions: different sizes and format of operands, internal variables, and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Other features: 2 master light function, scene temporization and relay switch counter.

## **ACTinBOX MAX6**

ZN1IO-AB60

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator 6 Outputs 10A

Independent switch of up to 6 electrical loads (individual outputs) or 3 shutters/blinds channels. The outputs can work as a channel for switching 10A 250V AC (2500 VA) or 10A 30V DC (300W). [[41]](#footnote-41)

6 multifunction outputs that can be configured as:

* Up to 6 individual outputs: status object, timers, scenes, lock, alarm, custom start up.
* Up to 3 shutter/blind channels: basic control, precise control, different time up/down, status object, scenes, lock, alarms, reverse movement, direct positioning, custom start-up.

10 logical functions with up to 4 operations each: different operand sizes and formats, logical, arithmetical and comparison operations, different result sending ways (restrictions, periodic, delay).

Installation: DIN rail.

Manual operation through remote control ZN1IR-Z38 or ZN1IR-ZAS.

## MAXinBOX 66 v2

ZIOMB66V2

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator 6 Outputs 16A C-Load and 6 Analog/Digital Inputs

Multifunction actuator for up to 6 electrical loads or up to 3 shutters/blinds. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). Manual operation and led status in each channel. [[42]](#footnote-42)

6 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 6 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 3 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.
* 6 analogue/digital inputs that can be configurable like:
* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling). Custom temperature probe.

4 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Master light feature: management since a single trigger of both courtesy on and general switch off in function on several luminaire states.

Scene temporization.

Relay switch counter.

DIN rail installation.

## MAXinBOX 8 v3

ZIOMB8V3

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator 8 Outputs 16A

Multifunction actuator for up to 8 electrical loads or up to 4 shutters/blinds or up to 2 2-pipe Fan Coil Blocks. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). [[43]](#footnote-43)

8 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 8 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 4 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.
* Up to 2 fan coil controllers (1 on/off valve and up to 3 fan speeds) with the following configurable features: cooling, heating or both modes, two type of controls (applied to the valve or to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.
  + Fan features: Different relay speed management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
  + Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Scene temporization.

Relay switch counter.

DIN rail installation.

## MAXinBOX 16 v3

ZIOMB16V3

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator 16 Outputs 16A

Multifunction actuator for up to 16 electrical loads or up to 8 shutters/blinds or up to 4 2-pipe Fan Coil Blocks. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). [[44]](#footnote-44)

16 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 16 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 8 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.
* Up to 4 fan coil controllers (1 on/off valve and up to 3 fan speeds) with the following configurable features: cooling, heating or both modes, two type of controls (applied to the valve or to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.
  + Fan features: Different relay speed management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
  + Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

20 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Scene temporization.

Relay switch counter.

DIN rail installation.

## MAXinBOX 24

ZIO-MB24

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator 24 Outputs 16A

Multifunction actuator for up to 24 electrical loads or up to 12 shutters/blinds or up to 6,2-pipe Fan Coil Blocks. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). [[45]](#footnote-45)

16 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 16 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 8 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.
* Up to 4 fan coil controllers (1 on/off valve and up to 3 fan speeds) with the following configurable features: cooling, heating or both modes, two type of controls (applied to the valve or to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.
  + Fan features: Different relay speed management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
  + Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

30 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Scene temporization.

Relay switch counter.

DIN rail installation.

## MAXinBOX 24 v2

ZIOMB24V2

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator 24 Outputs 16A

Multifunction actuator for up to 24 electrical loads or up to 12 shutters/blinds or up to 6,2-pipe Fan Coil Blocks. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). [[46]](#footnote-46)

16 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 16 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 8 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.
* Up to 4 fan coil controllers (1 on/off valve and up to 3 fan speeds) with the following configurable features: cooling, heating or both modes, two type of controls (applied to the valve or to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.
  + Fan features: Different relay speed management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
  + Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

30 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Scene temporization.

Relay switch counter.

DIN rail installation.

## MAXinBOX Shutter 4CH v2

ZIOMBSH4V2

|  |  |
| --- | --- |
|  |  |

Shutter Actuator with up to 4 shutter channels

Specific actuator for controlling motorised shutter, blind systems. Included mode for shutter automatic control. [[47]](#footnote-47)

Up to 4 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up.

Mode for automatic control of shutter channels in a continuous way (dedicated object) or event driven (reactions in case of sunshine shadow depending on heating/cooling and presence).

Push buttons for testing (with/without bus communication) and LED status indicators.

20 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Relay switch counter.

Installation on mounting rail DIN.

Rated current by output: 10A (250VAC) and 10A (30VDC).

## MAXinBOX Shutter 8CH v2

ZIOMBSH8V2

|  |  |
| --- | --- |
|  |  |

Shutter Actuator with up to 8 shutter channels

Specific actuator for controlling motorised shutter, blind systems. Included mode for shutter automatic control. [[48]](#footnote-48)

Up to 8 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up.

Mode for automatic control of shutter channels in a continuous way (dedicated object) or event driven (reactions in case of sunshine shadow depending on heating/cooling and presence).

Push buttons for testing (with/without bus communication) and LED status indicators.

20 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Relay switch counter.

Installation on mounting rail DIN.

Rated current by output: 10A (250VAC) and 10A (30VDC).

## MINiBOX 20

ZIO-MN20

|  |  |
| --- | --- |
| Z:\04-DISEÑO\MATERIAL DISEÑO\RENDERS PRODUCTOS\MINiBOX 20\2000x2000\MN20 2000x2000.jpg |  |

Multifunction Actuator 2 Outputs 16A C-Load

Multifunction actuator for of up to 2 electrical loads or up to 1 shutter/blind. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). Manual operation and led status in each channel. [[49]](#footnote-49)

2 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 2 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 1 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Scene temporization.

DIN rail installation.

## MINiBOX 25 v2

ZIOMN25V2

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator 2 Outputs 16A C-Load and 5 Analog/Digital Inputs

Multifunction actuator for up to 2 electrical loads or up to 1 shutter/blind. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). Manual operation and led status in each channel. [[50]](#footnote-50)

2 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 2 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions. Operating hours counter.
* Up to 1 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.

5 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling). Custom temperature probe.

4 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Master light feature: management since a single trigger of both courtesy on and general switch off in function on several luminaire states.

Scene temporization.

Relay switch counter.

DIN rail installation.

## MINiBOX 40 v2

ZIOMN40V2

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator 4 Outputs 16A C-Load

Multifunction actuator for up to 4 electrical loads or up to 2 shutters/blinds a 1 fan coil block. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). Manual operation and led status in each channel. [[51]](#footnote-51)

4 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 4 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 2 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.
* Fan coil controller (1 on/off valve and up to 3 fan speeds) with the following configurable features: cooling, heating or both modes, two type of controls (applied to the valve or to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.
  + Fan features: Different relay speed management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
  + Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Relay switch counter.

Scene temporization.

DIN rail installation.

## MINiBOX 45 v2

ZIOMN45V2

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator 4 Outputs 16A C-Load and 5 Analog/Digital Inputs

Multifunction actuator for up to 4 electrical loads, up to 2 shutters/blinds. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). Manual operation and led status in each channel. [[52]](#footnote-52)

2 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 2 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 1 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.

5 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling). Custom temperature probe.

4 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Master light feature: management since a single trigger of both courtesy on and general switch off in function on several luminaire states.

Scene temporization.

Relay switch counter.

DIN rail installation.

## inBOX 20 v2

ZIOIB20V2

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator for flush mounting with 2 Outputs 16A C-Load

Multifunction actuator for up to 2 electrical loads or up to 1 shutter/blind. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). Manual operation and led status in each channel. [[53]](#footnote-53)

2 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 2 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 1 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Scene temporization.

Relay switch counter.

DIN rail installation.

## inBOX 24 v2

ZIOIB24V2

|  |  |
| --- | --- |
|  |  |

Multifunction Actuator for flush mounting with 2 Outputs 16A C-Load and 4 Analog/Digital Inputs

Multifunction actuator for up to 2 electrical loads or up to 1 shutter/blind. Highly suitable for common loads, fluorescent lighting loads or shutter motors. Output for switching 16A 250V AC (4000 VA) or 16A 30V DC (480W). Valid for capacitive load (140 µF maximum). Manual operation and led status in each channel. [[54]](#footnote-54)

2 individual multifunction outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 2 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 1 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up. Automatic mode by event driven or continuous.

4 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling). Custom temperature probe.

4 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Master light feature: management since a single trigger of both courtesy on and general switch off in function on several luminaire states.

Scene temporization.

Relay switch counter.

DIN rail installation.

## MINiBOX 0-10V X3

ZIO3X010

|  |  |
| --- | --- |
|  |  |

Multifunction actuator with 3 blocks of 0-10V analogic outputs/inputs.

DIN rail mounting actuator (2 DIN wide) with 3 channels configurable as 0-10 V outputs, 0-10 V input or 4-20 mA input. Each channel can be configured individually or jointly to control 2-pipe or 4-pipe fan coils where fan and valves are controlled with 0-10 V signals. Manual control is available using the push buttons and each channel’s status is shown via the LED indicator. It includes 10 logic functions and 3 thermostats.[[55]](#footnote-55)

3 connections that can be configured as 0-10V outputs with manual operation and LED indicators, 0-10V input or 4-20mA input.

A connection configured as 0-10V output can be configured as:

* Fan or valve with customizable limits and characteristic curve.
* Generic output with customizable limits and characteristic curve and other features as relative control, custom on/off, day/night mode, simple timer, flashing, scenes, auto off, lock, alarm, standby and customizable initialization.

Each connection configured as analogue input are the following features: selection of the input signal range (0-1V, 1-10V, 0-10V, 0-20mA, 4-20mA), requested, periodical and value change sending. Input value limits, lower and upper threshold alarms (hysteresis), measurement filter, (upper and lower) range errors,

Fan coil controller with the following features: 2/4 pipes, cooling, heating or both modes, scenes, fan coil on/off, automatic recirculation in cooling, customized initialization.

* Fan features: automatic (PI with configurable thresholds) and manual control (with different control objects), delays on mode switching and stop after off order, starting characteristic, different status object.
* Valve features: control signal scaling, control signal change limits, delays, minimum valve opening, anti-seize protection.

3 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Maximum supported intensity by 0-10V outputs is 2.5mA and current 4-20mA

## MINiBOX 0-10V X2

ZIO2X010

|  |  |
| --- | --- |
|  |  |

Multifunction actuator with 2 blocks of 0-10V analogic outputs/inputs.

DIN rail mounting actuator (2 DIN wide) with 2 channels configurable as 0-10 V outputs, 0-10 V inputs or 4-20 mA inputs. Each channel can be configured individually or jointly to control a 2-pipe fan coil where both fan and valve are controlled with 0-10 V signals. Manual control is available using the push buttons and each channel’s status is shown via the LED indicator. It includes 10 logic functions and 2 thermostats.[[56]](#footnote-56)

2 connections that can be configured as 0-10V outputs with manual operation and LED indicators, 0-10V input or 4-20mA input.

A connection configured as 0-10V output can be configured as:

* Fan or valve with customizable limits and characteristic curve.
* Generic output with customizable limits and characteristic curve and other features as relative control, custom on/off, day/night mode, simple timer, flashing, scenes, auto off, lock, alarm, standby and customizable initialization.

Each connection configured as analogue input are the following features: selection of the input signal range (0-1V, 1-10V, 0-10V, 0-20mA, 4-20mA), requested, periodical and value change sending. Input value limits, lower and upper threshold alarms (hysteresis), measurement filter, (upper and lower) range errors,

Fan coil controller with the following features: 2/4 pipes, cooling, heating or both modes, scenes, fan coil on/off, automatic recirculation in cooling, customized initialization.

* Fan features: automatic (PI with configurable thresholds) and manual control (with different control objects), delays on mode switching and stop after off order, starting characteristic, different status object.
* Valve features: control signal scaling, control signal change limits, delays, minimum valve opening, anti-seize protection.

2 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail installation.

Maximum supported intensity by 0-10V outputs is 2.5mA and current 4-20mA.

## MINiBOX 0-10V X1

ZIO1X010

|  |  |
| --- | --- |
|  |  |

Multifunction actuator with 1 block of 0-10V analogic outputs/inputs.

DIN rail mounting actuator (2 DIN wide) with 1 channel configurable as 0-10 V output, 0-10 V input or 4-20 mA input. It includes fan coil module for installations where either the valve or the fan is 0-10 V signal controlled, and the remaining are controlled by an external device. Manual control is available using the push button and the channel’s status is shown via the LED indicator. It includes 10 logic functions and 1 thermostat.[[57]](#footnote-57)

1 connection that can be configured as 0-10V output with manual operation and LED indicator, 0-10V input or 4-20mA input.

A connection configured as 0-10V output can be configured as:

* Fan or valve with customizable limits and characteristic curve.
* Generic output with customizable limits and characteristic curve and other features as relative control, custom on/off, day/night mode, simple timer, flashing, scenes, auto off, lock, alarm, standby and customizable initialization.

Each connection configured as analogue input are the following features: selection of the input signal range (0-1V, 1-10V, 0-10V, 0-20mA, 4-20mA), requested, periodical and value change sending. Input value limits, lower and upper threshold alarms (hysteresis), measurement filter, (upper and lower) range errors,

Fan coil controller with the following features: 2 pipes, cooling, heating or both modes, scenes, fan coil on/off, automatic recirculation in cooling, customized initialization.

* Fan features: automatic (PI with configurable thresholds) and manual control (with different control objects), delays on mode switching and stop after off order, starting characteristic, different status object.
* Valve features: control signal scaling, control signal change limits, delays, minimum valve opening, anti-seize protection.

1 Zennio Thermostat with the following features:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail installation.

Maximum supported intensity by 0-10V outputs is 2.5mA and current 4-20mA.

## Shutter Coupler 1CH

ZAC-SHUC1C

|  |  |
| --- | --- |
| C:\Users\Fernando\AppData\Local\Temp\Rar$DIa0.213\Shutter_Coupler_1CH_2000x2000.png |  |

AC/DC Shutter Adaptor for One Channel

AC/DC Shutter adaptor that converts the shutter channel AC output into a DC output to control 12/24VDC shutters.

One output channel to control 12-24VDC shutters in function on 1 conventional shutter channel (3 wirings).

12-24VDC external power supply needed (in function of managed motor voltage)

DIN rail mounting

## Shutter Coupler 2CH

ZAC-SHUC2C

|  |  |
| --- | --- |
| C:\Users\Fernando\AppData\Local\Temp\Rar$DIa0.734\Shutter_Coupler_2CH_2000x2000.png |  |

AC/DC Shutter Adaptor for 2 Channels

AC/DC Shutter adaptor that converts the shutter channel AC output into a DC output to control 12/24VDC shutters.

Two output channels to control 12-24VDC shutters in function on 2 conventional shutter channels (3 wirings).

12-24VDC external power supply needed (in function of managed motor voltage)

DIN rail mounting

# LIGHTING

## NarrowDIM X4

ZDINDX4

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | Load Type | R/C/L, LED, CFL 230VAC/110VAC | | Regulation | Phase cutting | | Channel maximum | (210W@230VAC, 160W@110VAC); | | Double channel maximum | (400W@230VAC, 300W@110VAC); | | Quad channel maximum | (750W@230VAC, 600W@110VAC); | | Auxiliary power | 230VAC/110VAC | |

Universal dimming actuator with 4 channels

Dimming actuator with 4 channels for different types of load (resistive, capacitive, inductive, LED and CFL) with load automatic detection. [[58]](#footnote-58)

Up to 4 dimmable channels (210W@230VAC, 160W@110VAC) for RLC, LED and CFL loads[[59]](#footnote-59):

* Double channel connection (400W@230VAC, 300W@110VAC) and quad channel connection (750W@230VDC, 600W@110VAC).
* Automatic frequency detection, automatic load type detection for conventional lamps (R/C/L), compatible with uninterruptible power supply (UPS).
* Customizable dimming pattern for LED and CFL loads, customizable dimming times and speeds, and adjustable characteristic curve.
* High performance regulation: the device is entirely powered from the KNX bus, which prevents limitations and other effects over the load power.
* Different control ways: On/off, relative dimming and absolute dimming.
* Additional functions: status objects, timed actions, scenes, custom on/off controls, automatic switch -off, sequences, economy mode, channel lock, alarms, customizable initialization settings, memory function.
* Automatic error management (short-circuits, overheating, anomalous network, frequencies, overvoltage, absence of power supply and wrong load type selection)

Manual operation and supervision of the loads through the on-board push buttons and LED indicators to show error situations.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail mounting.

## NarrowDIM X2

ZDINDX2

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | Load Type | R/C/L, LED, CFL 230VAC/110VAC | | Regulation | Phase cutting | | Channel maximum | (210W@230VAC, 160W@110VAC); | | Double channel maximum | (400W@230VAC, 300W@110VAC); | | Auxiliary power | 230VAC/110VAC | |

Universal dimming actuator with 2 channels

Dimming actuator with 2 channels for different types of load (resistive, capacitive, inductive, LED and CFL) with load automatic detection. [[60]](#footnote-60)

Up to 2 dimmable channels (210W@230VAC, 160W@110VAC) for RLC, LED and CFL loads[[61]](#footnote-61):

* Double channel connection (400W@230VAC, 300W@110VAC).
* Automatic frequency detection, automatic load type detection for conventional lamps (R/C/L), compatible with uninterruptible power supply (UPS).
* Customizable dimming pattern for LED and CFL loads, customizable dimming times and speeds, and adjustable characteristic curve.
* High performance regulation: the device is entirely powered from the KNX bus, which prevents limitations and other effects over the load power.
* Different control ways: On/off, relative dimming and absolute dimming.
* Additional functions: status objects, timed actions, scenes, custom on/off controls, automatic switch -off, sequences, economy mode, channel lock, alarms, customizable initialization settings, memory function.
* Automatic error management (short-circuits, overheating, anomalous network, frequencies, overvoltage, absence of power supply and wrong load type selection)

Manual operation and supervision of the loads through the on-board push buttons and LED indicators to show error situations.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail mounting.

## DIMinBOX DX4

ZDIDBDX4

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | Load Type | R/C/L, LED, CFL 230VAC/110VAC | | Regulation | Phase cutting | | Channel maximum | (300W@230VAC, 200W@110VAC); | | Double channel maximum | (600W@230VAC, 400W@110VAC); | | Quad channel maximum | (1200W@230VAC, 800W@110VAC); | | Auxiliary power | 230VAC/110VAC | |

Universal dimming actuator with 4 channels

Dimming actuator with 4 channels for different types of load (resistive, capacitive, inductive, LED and CFL) with load automatic detection. [[62]](#footnote-62)

Up to 4 dimmable channels (300W@230VAC, 200W@110VAC) for RLC, LED and CFL loads[[63]](#footnote-63):

* Double channel connection (600W@230VAC, 400W@110VAC) and quad channel connection (1200W@230VDC, 800W@110VAC).
* Automatic frequency detection, automatic load type detection for conventional lamps (R/C/L), compatible with uninterruptible power supply (UPS).
* Customizable dimming pattern for LED and CFL loads, customizable dimming times and speeds, and adjustable characteristic curve.
* High performance regulation: the device is entirely powered from the KNX bus, which prevents limitations and other effects over the load power.
* Different control ways: On/off, relative dimming and absolute dimming.
* Additional functions: status objects, timed actions, scenes, custom on/off controls, automatic switch -off, sequences, economy mode, channel lock, alarms, customizable initialization settings, memory function.
* Automatic error management (short-circuits, overheating, anomalous network, frequencies, overvoltage, absence of power supply and wrong load type selection)

Manual operation and supervision of the loads through the on-board push buttons and LED indicators to show error situations.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail mounting.

## DIMinBOX DX2

ZDI-DBDX2

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Z:\04-DISEÑO\MATERIAL DISEÑO\RENDERS PRODUCTOS\DIMinBOX DX2\2000x2000\DIMinBOX_DX2 2000x2000.jpg | |  |  | | --- | --- | | Load Type | R/C/L, LED, CFL 230VAC/110VAC | | Regulation | Phase cutting | | Channel maximum | (300W@230VAC, 200W@110VAC); | | Double channel maximum | (600W@230VAC, 400W@110VAC); | | Auxiliary power | 230VAC/110VAC | |

Universal dimming actuator with 4 channels

Dimming actuator with 2 channels for different types of load (resistive, capacitive, inductive, LED and CFL) with load automatic detection. 2 analogue/digital inputs. [[64]](#footnote-64)

Up to 2 dimmable channels (310W@230VAC, 200W@110VAC) for RLC, LED and CFL loads[[65]](#footnote-65):

* Double channel connection (600W@230VAC, 400W@110VAC).
* Automatic frequency detection, automatic load type detection for conventional lamps (R/C/L), compatible with uninterruptible power supply (UPS).
* Customizable dimming pattern for LED and CFL loads, customizable dimming times and speeds, and adjustable characteristic curve.
* High performance regulation: the device is entirely powered from the KNX bus, which prevents limitations and other effects over the load power.
* Different control ways: On/off, relative dimming and absolute dimming.
* Additional functions: status objects, timed actions, scenes, custom on/off controls, automatic switch -off, sequences, economy mode, channel lock, alarms, customizable initialization settings, memory function.
* Automatic error management (short-circuits, overheating, anomalous network, frequencies, overvoltage, absence of power supply and wrong load type selection)

Manual operation and supervision of the loads through the on-board push buttons and LED indicators to show error situations.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).
* DIN rail mounting.

## DIMinBOX DX1

ZDIDBDX1

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | Load Type | R/C/L, LED, CFL 230VAC/110VAC | | Regulation | Phase cutting | | Channel maximum | (250W@230VAC, 200W@110VAC); | | Auxiliary power | 230VAC/110VAC | |

Universal dimming actuator with 1 channel

Dimming actuator with 1 channel for different types of load (resistive, capacitive, inductive, LED and CFL) with load automatic detection. [[66]](#footnote-66)

Dimmable channel (300W@230VAC, 200W@110VAC) for RLC, LED and CFL loads[[67]](#footnote-67):

* Automatic frequency detection, automatic load type detection for conventional lamps (R/C/L), compatible with uninterruptible power supply (UPS).
* Customizable dimming pattern for LED and CFL loads, customizable dimming times and speeds, and adjustable characteristic curve.
* High performance regulation: the device is entirely powered from the KNX bus, which prevents limitations and other effects over the load power.
* Different control ways: On/off, relative dimming and absolute dimming.
* Additional functions: status objects, timed actions, scenes, custom on/off controls, automatic switch -off, sequences, economy mode, channel lock, alarms, customizable initialization settings, memory function.
* Automatic error management (short-circuits, overheating, anomalous network, frequencies, overvoltage, absence of power supply and wrong load type selection)

Manual operation and supervision of the loads through the on-board push buttons and LED indicators to show error situations.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail mounting.

## inBOX DIM

ZDI-IBD

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \\192.168.70.40\zennio\04-DISEÑO\MATERIAL DISEÑO\RENDERS PRODUCTOS\InBOX DIM\2000x2000\Inbox DIM 2000x2000.jpg | |  |  | | --- | --- | | Load Type | 12-30 VDC LED | | Regulation | Constant voltage | | Channel maximum | 6A | | Auxiliary power | 12-30 VDC | |

Universal dimming actuator with 1 channel for flush mounting

Dimming actuator for flush mounting with 1 channel for different types of load (resistive, capacitive, inductive, LED and CFL) with load automatic detection. 2 analogue/digital inputs [[68]](#footnote-68)

Dimmable channel (250W@230VAC, 200W@110VAC) for RLC, LED and CFL loads[[69]](#footnote-69):

* Automatic frequency detection, automatic load type detection for conventional lamps (R/C/L), compatible with uninterruptible power supply (UPS).
* Customizable dimming pattern for LED and CFL loads, customizable dimming times and speeds, and adjustable characteristic curve.
* High performance regulation: the device is entirely powered from the KNX bus, which prevents limitations and other effects over the load power.
* Different control ways: On/off, relative dimming and absolute dimming.
* Additional functions: status objects, timed actions, scenes, custom on/off controls, automatic switch -off, sequences, economy mode, channel lock, alarms, customizable initialization settings, memory function.
* Automatic error management (short-circuits, overheating, anomalous network, frequencies, overvoltage, absence of power supply and wrong load type selection)

Manual operation and supervision of the loads through the on-board push buttons and LED indicators to show error situations.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## Lumento X3

ZN1DI-RGBX3

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C:\Users\Fernando\AppData\Local\Temp\Rar$DIa0.877\lumentox3.png | |  |  | | --- | --- | | Load Type | 12/24VDC LED  Common anode | | Regulation | Constant voltage | | Channel maximum | 2.5A | | Auxiliary power | 12/24 VDC | |

3 channel LED Dimmer

LED dimming solution for single-colour LED DC diode modules or combined LED DC diode modules of up to three colours (Red, Green and Blue). It offers three independent output channels, for modules powered with 12/24 VDC (up to 2.5 A each). Two different ways to control depending on the type of the LED modules: RGB or three independent channels. [[70]](#footnote-70)

Two different application programs:

* LUMENTO X3 LED: independent control over up to three single-colour LED modules, i.e., each channel connected to the output corresponds to an independent single-colour module, which will generally be installed and operated independently of the other modules.
* LUMENTO X3 RGB: joint control over one three-colour (RGB) LED module, i.e., each channel connected to the output corresponds to one colour component (R, G or B) of the same module, being all of them typically controlled jointly to achieve a wide range of colour shades.

Different control ways: on/off, relative dimming and absolute dimming. Independent channel control and color selection objects (only for RGB), status objects, several custom on/off, timers, scenes/sequences, lock.

Other features: configurable PWM frequency, customized dimming speed, customized dimming and on/off times, memory function, error identification (external voltage, overheating), customized start-up, restriction of the allowed light maximum level.

Maximum 2.5A per channel. Required external power supply (12/24 VDC). Channel dimming is based on varying the voltage by pulse width modulation (PWM).

Manual test button and status indicator LED.

## Lumento X4

ZN1DI-RGBX4

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C:\Users\Fernando\AppData\Local\Temp\Rar$DIa0.158\Lumento x4.png | |  |  | | --- | --- | | Load Type | 12/24 VDC LED  Common anode | | Regulation | Constant voltage | | Channel maximum | 2.5A | | Auxiliary power | 12/24 VDC | |

4 channel LED Dimmer

LED dimming solution for single-colour LED DC diode modules or combined LED DC diode modules of up to four colours (Red, Green, Blue and White). It offers four independent output channels, for modules powered with 12/24 VDC (up to 2.5 A each). Two different ways to control depending on the type of the LED modules: RGBW, four independent channels or two cool/warm white cannels. [[71]](#footnote-71)

3 different application programs can be installed:

* LUMENTO X4 LED: independent control over up to four monochrome LED modules, i.e., each channel connected to the output corresponds to an independent single-colour module, which will generally be installed and operated independently of the other modules.
* LUMENTO X4 RGBW: joint control over one four-colour (RGBW) LED module, i.e., each channel connected to the output corresponds to one colour component (R, G, B or W) of the same module, being all of them typically controlled jointly.
* LUMENTO X4 WHITE: control over Cool/Warm white LED modules (CW), i.e., four white LED strips (two of them Cool and two of them Warm) can be controlled, both jointly and separately for warm LEDs and cool LEDs.

Different control ways: on/off, relative dimming and absolute dimming. Independent channel control and color selection objects (only for RGBW), color temperature (only for WHITE), status objects, several custom on/off, timers, scenes/sequences, lock.

Other features: configurable PWM frequency, customized dimming speed, customized dimming and on/off times, memory function, error identification (external voltage, overheating), customized start-up, restriction of the allowed light maximum level.

Maximum 2.5A per channel. Required external power supply (12/24 VDC). Channel dimming is based on varying the voltage by pulse width modulation (PWM).

Manual test button and status indicator LED.

## Lumento DX4

ZDI-RGBDX4

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Z:\03-TECNICO\imagen_producto\lumento_dx4.png | |  |  | | --- | --- | | Load Type | 12-30 VDC LED | | Regulation | Constant voltage | | Channel maximum | 6A | | Auxiliary power | 12-30 VDC | |

4 channel LED Dimmer for DIN rail mounting

LED dimmer with 4 channels (RGBW, RGB+W or single channels) oriented to LED technology with constant voltage regulation. The dimming channels can be configured as 4 independent channels, 1 RGBW channel or 1 RGB channel + 1 individual channel. 6 analogue/digital inputs.[[72]](#footnote-72)

4 output channels (up to 6 A each) parameterizable for different output configurations, according to the LED module type:

* Individual channels: allows an independent control over the different output channels.
* RGBW: allows a joint control over one four-colour LED module. The output channel will be formed by the colour components (R, G, B and W) of a sole module, being all of them controlled jointly but with differentiated luminosity levels.
* RGB+W: permits controlling a three-colour LED module, plus an independent white channel (i.e., an RGB channel plus an individual channel for the connection of a white LED module). Each color component (R, G B) is connected to an output, color is achieve variating the luminosity of each channel.

Different control ways: on/off, relative dimming and absolute dimming. Independent channel control and color selection objects (only for RGBW and RGB channels), status objects, several custom on/off, timers, customized and predefined scenes/sequences, lock, auto off,

Other features: configurable PWM frequency, customized dimming speed, customized dimming and on/off times, memory function, error identification (external voltage, overheating), customized start-up, restriction of the allowed light maximum level.

Maximum 6A per channel. Required external power supply (12-30 VDC). Channel dimming is based on varying the voltage by pulse width modulation (PWM).

Manual test of the four output channels through the on-board pushbuttons and LEDs.

Master light feature: management since a single trigger of both courtesy on and general switch off in function on several luminaire states.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.

DIN rail mounting.

## Lumento C4

ZDI-RGBCC4

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | Load Type | 12-30 VDC LED | | Regulation | Constant current | | Channel maximum | 1A | | Auxiliary power | 12-30 VDC | |

4 channel LED Dimmer

LED dimmer with 4 channels (RGBW, RGB+W or single channels) oriented to LED technology with constant current regulation. The dimming channels can be configured as 4 independent channels, 1 RGBW channel or 1 RGB channel. [[73]](#footnote-73)

4 output channels (up to 1A each) parameterizable for different output configurations, according to the LED module type:

* Individual channels: allows an independent control over the different output channels.
* RGBW: allows a joint control over one four-colour LED module. The output channel will be formed by the colour components (R, G, B and W) of a sole module, being all of them controlled jointly but with differentiated luminosity levels.
* RGB+W: permits controlling a three-colour LED module, plus an independent white channel (i.e., an RGB channel plus an individual channel for the connection of a white LED module). Each color component (R, G B) is connected to an output, color is achieve variating the luminosity of each channel.

Different control ways: on/off, relative dimming and absolute dimming. Independent channel control and color selection objects (only for RGBW and RGB channels), status objects, several custom on/off, timers, customized and predefined scenes/sequences, lock, auto off,

Other features: configurable intensity, customized dimming speed, customized dimming and on/off times, memory function, error identification (external voltage, overheating), customized start-up, restriction of the allowed light maximum level.

Maximum 1A per channel. Required external power supply (12-30 VDC).

Manual test button and status indicator LED.

## Lumento C3

ZDI-RGBCC3

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | Load Type | 12-30 VDC LED | | Regulation | Constant current | | Channel maximum | 1A | | Auxiliary power | 12-30 VDC | |

3 channel LED Dimmer

LED dimmer with 3 channels (RGB or single channels) oriented to LED technology with constant current regulation. The dimming channels can be configured as 3 independent channels or 1 RGB channel. [[74]](#footnote-74)

3 output channels (up to 1A each) parameterizable for different output configurations, according to the LED module type:

* Individual channels: allows an independent control over the different output channels.
* RGB: allows a joint control over one three-colour LED module. The output channel will be formed by the colour components (R, G, B) of a sole module, being all of them controlled jointly but with differentiated luminosity levels.

Different control ways: on/off, relative dimming and absolute dimming. Independent channel control and color selection objects (only for RGB channels), status objects, several custom on/off, timers, customized and predefined scenes/sequences, lock, auto off,

Other features: configurable intensity, customized dimming speed, customized dimming and on/off times, memory function, error identification (external voltage, overheating), customized start-up, restriction of the allowed light maximum level.

Maximum 1A per channel. Required external power supply (12-30 VDC).

Manual test button and status indicator LED.

## DALIBOX Broadcast 6CH

ZDI-DLB6

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | Load Type | DALI luminaries | | Regulation | DALI broadcast | | Channel maximum | 20 ballasts | | Auxiliary power | 110/230 VAC | |

KNX-DALI Interface for up to 6 broadcast channels

KNX Interface to control and monitor up to 6 channels of up to 20 ballasts with broadcast commands. DALI configuration is not needed. [[75]](#footnote-75)

Controlling and monitoring up to 6 DALI channels using broadcast commands.

Different control ways: on/off, relative dimming and absolute dimming, status objects, several custom on/off, timed actions, scenes and sequences, lock, auto off.

Other features: customized dimming speeds, customized dimming and on/off times, memory function, customized initialization, luminosity and dimming limits.

Special operation modes: standby (notifying an external actuator after switching of a channel for energy saving), auto off (automatic off when a channel remains under a dimming threshold for a period of time), burn-in (prevents the execution of dimming orders during a period of time after ballast switch-on).

Error identification: external voltage, DALI error, ballast error, lamp error, ballasts overload, open circuit.

Ballast swap with automatic address re-assignment.

Manual operation with test on / off modes for testing purposes through push buttons and status LED indicators.

Up to 20 ballast in each channel: up to 120 ballasts in total.

DIN rail mounting.

## DALIBOX Broadcast 4CH

ZDI-DLB4

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | Load Type | DALI luminaries | | Regulation | DALI broadcast | | Channel maximum | 20 ballasts | | Auxiliary power | 110/230 VAC | |

KNX-DALI Interface for up to 4 broadcast channels

KNX Interface to control and monitor up to 4 channels of up to 20 ballasts with broadcast commands. DALI configuration is not needed. [[76]](#footnote-76)

Controlling and monitoring up to 4 DALI channels using broadcast commands.

Different control ways: on/off, relative dimming and absolute dimming, status objects, several custom on/off, timed actions, scenes and sequences, lock, auto off.

Other features: customized dimming speeds, customized dimming and on/off times, memory function, customized initialization, luminosity and dimming limits.

Special operation modes: standby (notifying an external actuator after switching of a channel for energy saving), auto off (automatic off when a channel remains under a dimming threshold for a period of time), burn-in (prevents the execution of dimming orders during a period of time after ballast switch-on).

Error identification: external voltage, DALI error, ballast error, lamp error, ballasts overload, open circuit.

Ballast swap with automatic address re-assignment.

Manual operation with test on / off modes for testing purposes through push buttons and status LED indicators.

Up to 20 ballast in each channel: up to 80 ballasts in total.

DIN rail mounting.

## DALI-BOX Interface v2

ZDIDLIV2

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | Load Type | DALI luminaries | | Regulation | DALI | | Channel maximum | 64 ballasts | | Auxiliary power | 110/230 VAC | |

KNX-DALI Interface for up to 64 ballasts in up to 64 groups

KNX-DALI Interface to control and monitor up to 64 independent ballasts, which can be associated in up to 64 groups (48 of each them must have only a ballast). It makes possible to integrate DALI system in a domotic installation. Display is included to assign ballast to groups. [[77]](#footnote-77)

Controlling and monitoring up to 64 ballast groups (48 of them must have only a ballast) with universal DALI commands. It is compatible with DALI2.

Different control ways: on/off, relative dimming and absolute dimming, status objects, several custom on/off, timed actions, scenes and sequences, lock, auto off.

Ballast swap with automatic address re-assignment.

Other features: customized dimming speeds, customized dimming and on/off times, memory function, customized initialization, luminosity and dimming limits, configuring of ballast regulation type (logarithmic or linear).

Special operation modes: standby (notifying an external actuator after switching of a channel for energy saving), auto off (automatic off when a channel remains under a dimming threshold for a period of time), burn-in (prevents the execution of dimming orders during a period of time after ballast switch-on).

Error identification: external voltage, short circuit ballast presence and error diagnostic of ballast and groups.

Ballast swap with automatic address re-assignment.

Different types of admitted ballasts with special configuration: regular, self-contained battery light (converter), LED module. DALI ballast type: from 0 to 8 types following DALI regulation. Both emergency ballasts, LED modules, and color control ballasts (DT8) are managed. RGB, RGBW and colour temperature functionality.

DCA in ETS to make ballasts commissioning easier: it allows importing in ETS the configuration of addresses and groups of the device (made manually), show the ballast status, operating time and individual reset of ballasts

DIN rail mounting.

# HVAC CONTROL

## IRSC Plus

ZN1CL-IRSC

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Split with IR | | Control | Unidirectional IR commands | |

AC unit control module through IR

Control of an AC Unit which has IR receptor. [[78]](#footnote-78)

* Main features of AC machines are controlled: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced management with scenes, window sensor function, motion detection function, temperature range for cool and heat modes, timer for auto on/off.
* Compatibility with the most climatization system manufacturers (see correspondence table at [www.zennio.com](http://www.zennio.com)) and the option of integrating new ones.

IR wired flasher diode with protective capsule and sticker is included.

## KLIC-MITT v2

ZCLMITTV2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Mitsubishi electric | | Control | Bidirectional gateway (IT terminal) | |

KNX-Mitsubishi Electric getway

Bidirectional communication with Mitsubishi Electric units through IT Terminal. See compatibility table at device web page. [[79]](#footnote-79)

* Bidirectional communication allows management and monitoring of AC machine.
* Control of main features: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced control with setpoint limits, automatic switch off, scenes, etc.
* AC machine monitoring and state.
* Error identification and management: internal or communication errors, AC machine errors.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## KLIC-MITTE

ZCLMITTE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Mitsubishi Electric Ecodan hidrobox | | Control | Bidirectional gateway (IT terminal) | |

KNX-Mitsubishi Electric Ecodan hidrobox getway

Bidirectional communication with Mitsubishi Electric Ecodan hidrobox through IT Terminal. See compatibility table at device web page. [[80]](#footnote-80)

* Bidirectional communication allows management and monitoring of AC machine.
* Control of main features: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced control with setpoint limits, automatic switch off, scenes, etc.
* AC machine monitoring and state.
* Error identification and management: internal or communication errors, AC machine errors.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## KLIC-LG1

ZCL-LG1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | LG | | Control | Bidirectional gateway | |

KNX-LG Gateway.

Bidirectional communication with LG AC units. See compatibility table at device web page. [[81]](#footnote-81)

* Bidirectional communication allows management and monitoring of AC machine.
* Control of main features: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced control with setpoint limits, automatic switch off, scenes, etc.
* AC machine monitoring and state.
* Error identification and management: internal or communication errors, AC machine errors.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

3 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## KLIC-FJ

ZCL-FJ

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| C:\Users\fernando\AppData\Local\Microsoft\Windows\INetCache\Content.Word\KLIC FJ 2000x2000.png | |  |  | | --- | --- | | HVAC System | Fujitsu | | Control | Bidirectional gateway | |

Gateway KNX-Fujitsu

Bidirectional communication with Fujitsu, General and Hiyasu AC units. See compatibility table at device web page. [[82]](#footnote-82)

* Bidirectional communication allows management and monitoring of AC machine.
* Control of main features: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced control with setpoint limits, automatic switch off, scenes, etc.
* AC machine monitoring and state.
* Error identification and management: internal or communication errors, AC machine errors.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

3 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## KLIC-TS

ZCL-TS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| C:\Users\fernando\AppData\Local\Microsoft\Windows\INetCache\Content.Word\KLIC TS 2000x2000.png | |  |  | | --- | --- | | HVAC System | Toshiba | | Control | Bidirectional gateway | |

Gateway KNX-Toshiba

Bidirectional communication with Toshiba AC units. See compatibility table at device web page. [[83]](#footnote-83)

* Bidirectional communication allows management and monitoring of AC machine.
* Control of main features: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced control with setpoint limits, automatic switch off, scenes, etc.
* AC machine monitoring and state.
* Error identification and management: internal or communication errors, AC machine errors.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

3 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## KLIC-PA

ZCLPA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Panasonic | | Control | Bidirectional gateway | |

Gateway KNX-Panasonic

Bidirectional communication with Panasonic AC units. See compatibility table at device web page. [[84]](#footnote-84)

* Bidirectional communication allows management and monitoring of AC machine.
* Control of main features: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced control with setpoint limits, automatic switch off, scenes, etc.
* AC machine monitoring and state.
* Error identification and management: internal or communication errors, AC machine errors.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

3 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## KLIC-SG

ZCLSG

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Samsung | | Control | Bidirectional gateway | |

Gateway KNX-Samsung

Bidirectional communication with Samsung AC units (industrial range and VRV). See compatibility table at device web page. [[85]](#footnote-85)

* Bidirectional communication allows management and monitoring of AC machine.
* Control of main features: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced control with setpoint limits, automatic switch off, scenes, etc.
* AC machine monitoring and state.
* Error identification and management: internal or communication errors, AC machine errors.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## KLIC-DD v3

ZCLDDV3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Daikin  (residential range) | | Control | Bidirectional gateway | |

KNX–Daikin Residential Gateway

Bidirectional communication with Residential Daikin indoor units through S21 bus. See compatibility table at device web page. [[86]](#footnote-86)

* Bidirectional communication allows management and monitoring of AC machine.
* Control of main features: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced control with setpoint limits, automatic switch off, scenes, etc.
* AC machine monitoring and state.
* Error identification and management: internal or communication errors, AC machine errors.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## KLIC-DI

ZN1CL-KLIC-DI

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Daikin  (SKY / VRV) | | Control | Bidirectional gateway | |

KNX Interface for Daikin Commercial SKY and VRV A/C Units

Bidirectional communication with Commercial SKY and VRV Daikin indoor units through P1/P2 bus. See compatibility table at device web page. [[87]](#footnote-87)

* Bidirectional communication allows management and monitoring of AC machine.
* Control of main features: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced control with setpoint limits, automatic switch off, scenes, etc.
* AC machine monitoring and state.
* Error identification and management: internal or communication errors, AC machine errors.

5 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

## KLIC-DI v2 – SUBJECT TO CHANGES

ZCLDIV2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Daikin  (SKY / VRV) | | Control | Bidirectional gateway | |

KNX Interface for Daikin Commercial SKY and VRV A/C Units

Bidirectional communication with Commercial SKY and VRV Daikin indoor units through P1/P2 bus. See compatibility table at device web page. [[88]](#footnote-88)

* Bidirectional communication allows management and monitoring of AC machine.
* Control of main features: On/Off, setpoint temperature, mode, fan speed, swing.
* Advanced control with setpoint limits, automatic switch off, scenes, etc.
* AC machine monitoring and state.
* Error identification and management: internal or communication errors, AC machine errors.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

## KLIC-DA

ZN1CL-KLIC-DA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Daikin  (Altherma) | | Control | Bidirectional gateway | |

KNX Interface for Daikin Altherma Low Temperature Units

Bidirectional communication KNX to Daikin Altherma LT indoor units through P1/P2 bus. [[89]](#footnote-89)

Both Altherma system CA and CB Hidrokit models are compatible. See compatibility table at device web page. Altherma LT model has to be configured for a LWT (leaving water temperature) control, and with only one climate zone.

* Management of domestic hot water (DHW) system: on/off state of DHW function, on/off state of the Buster mode, setpoint temperature of the DHW tank.
* Management of the room climate system (Leaving water Method): on/off state of climate function, operation mode of the climate system, setpoint temperature.
* Error handling: duplicate additional user interface, malfunction of the Altherma LT system.
* Simultaneous monitoring of multiple indicators reported by the Altherma LT system: several kinds of temperature (external, DHW tank, etc) state of the actuators (pump, compressor, etc), additional information (current water flow), energy consumptions.

## KLIC-DA v2 – SUBJECT TO CHANGES

ZCLDAV2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Daikin  (Altherma) | | Control | Bidirectional gateway | |

KNX Interface for Daikin Altherma Low Temperature Units

Bidirectional communication KNX to Daikin Altherma LT indoor units through P1/P2 bus. [[90]](#footnote-90)

Both Altherma system CA and CB Hidrokit models are compatible. See compatibility table at device web page. Altherma LT model has to be configured for a LWT (leaving water temperature) control, and with only one climate zone.

* Management of domestic hot water (DHW) system: on/off state of DHW function, on/off state of the Buster mode, setpoint temperature of the DHW tank.
* Management of the room climate system (Leaving water Method): on/off state of climate function, operation mode of the climate system, setpoint temperature.
* Error handling: duplicate additional user interface, malfunction of the Altherma LT system.

Simultaneous monitoring of multiple indicators reported by the Altherma LT system: several kinds of temperature (external, DHW tank, etc) state of the actuators (pump, compressor, etc), additional information (current water flow), energy consumptions.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm
* Temperature probe with protection features (overheating, overcooling).

## ACTinBOX MAX6 FAN COIL

ZN1IO-AB60

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Fan Coil | | Control | 3 fan speeds (relays)  on/off valve (relays) | |

Fan Coil controller 2/4 pipes

This actuator it is to fulfil the climate control requirements in installations with an integrated 2/4 pipes Fan Coil unit. This application allows manual and automatic management of the fan speed (off, min, med, max) and the control of the valves (heat and cool). [[91]](#footnote-91)

Module of 5 logical functions, with up to 4 operations each. 1 bit, 1 byte and 2 bytes operators. Logic (id, not, and, or, xor, nand, nor, nxor), Arithmetic (id, add, subtract, multiply, divide, maximum, minimum), Comparison (higher, higher o equal, lower, lower or equal, equal, unequal), Conversion from one type to another. Delay and filter options for results.

## MAXinBOX FC 0-10V FAN

ZCL-FC010F

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| C:\Users\Fernando\AppData\Local\Temp\Rar$DIa0.984\FC 0-10V FAN 2000.png | |  |  | | --- | --- | | HVAC System | 2x Fan Coil (2/4 pipes) | | Control | Fan speed 0-10V  on/off valves (relays) | |

Fan-coil controller for up to two 2/4-Pipe units with 0-10 VDC Fan Speed Control Signal

Multifunction actuator with 2 analogue outputs and 4 binary outputs that can be activated and configured in independent way which allows the control of up to two 2/4 pipe fan-coil units with on/off valves and in which the fan is controlled by a 0-10VDC signal. [[92]](#footnote-92)

2 independent 0-10VDC analogue outputs for controlling 0‑10VDC fan: status object, lock, customized initialization. Push buttons for testing and LED indicators.

4 individual outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 4 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* On/off valve control.

Up to 2 independent fan coil controllers with the following features: cooling, heating or both modes, control applied to the fan, fan coil on/off, automatic recirculation in cooling, maximum and minimum fan speeds, forced position, delays in fan activation and change mode delay.

5 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

2 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Master light feature: management since a single trigger of both courtesy on and general switch off in function on several luminaire states.

DIN rail installation.

Maximum supported intensity by relays is 16A. Maximum supported intensity by 0-10V outputs is 2.5mA.

## MAXinBOX FC 0-10V VALVE

ZCL-FC010V

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MAXinBOX FC 0-10V VALVE * | |  |  | | --- | --- | | HVAC System | Fan Coil (2/4 pipes) | | Control | Up to 4 fan speeds (relays)  0-10V valve | |

Fan-coil controller for a 2/4 pipe fan coil unit with 0-10V valves and relays for fan speed

Multifunction actuator with 2 analogue outputs and 4 binary outputs that can be activated and configured in independent way which allows the control of up to two 2/4 pipe fan-coil units with up to 4 fan speeds and in which the valves are controlled by a 0-10VDC signal. [[93]](#footnote-93)

2 independent 0-10VDC analogue outputs for controlling 0‑10VDC valves: status object, lock, customized initialization. Push buttons for testing and LED indicators.

4 individual outputs 16A (valid for capacitive loads 140μF) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 4 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 4 fan speeds.

Fan coil controller with the following features: cooling, heating or both modes, control applied to the valve, cooling, heating or both modes, scenes, fan coil on/off, automatic recirculation in cooling, ventilation mode, alarms, purge.

* + Fan features: Different relay speed management (switching or accumulation), automatic (PI with configurable thresholds) and manual control (with different control objects), delays on mode switching and stop after off order, starting characteristic, different status object, silent mode.
  + Valve features: control signal scaling, control signal change limits, mode switch delays, minimum valve opening.

5 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

2 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Master light feature: management since a single trigger of both courtesy on and general switch off in function on several luminaire states.

DIN rail installation.

Maximum supported intensity by relays is 16A. Maximum supported intensity by 0-10V outputs is 2.5mA

## MAXinBOX Hospitality v2

ZCLHP126V2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Fan Coil (2/4 pipes) | | Control | Up to 3 fan speeds (relays)  2 on/off valves or a 3‑point valve (relays) | |

Fan-coil controller for a 2/4-pipes with 2 general purpose outputs and 6 analogue/digital inputs

Multifunction actuator for controlling a 2/4pipe fan-coil unit which both valves and fan are controlled by relays. [[94]](#footnote-94)

Fan coil controller (up to 2 on/off valves or up to 2 three-point valve and up to 3 fan speeds) with the following configurable features: cooling, heating or both modes, two type of controls (applied to the valve or to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.

* Fan features: Different relay speed management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
* Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

2 individual multifunction outputs 16A (valid for capacitive loads 140μF) and 1 individual multifunction output (if it is not used by fan coil) with push buttons for testing (with/without bus communication) and LED indicators:

* Up to 16 individual outputs with bus status notification, normally open or normally closed, simple temporization, flashing, scenes, locks with different options, alarms with configurable activation/deactivation actions, parametrizable start-up and shutdown actions.
* Up to 8 shutter/blind channels with status objects (shutter, relays), basic control, precise control, scenes, alarms and lock with configurable actions, reverse motion, direct positioning, configurable start-up.

5 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Master light feature: management since a single trigger of both courtesy on and general switch off in function on several luminaire states.

2 Hospitality thermostats with special features that are oriented for hospitality.

DIN rail installation.

## MAXinBOX FAN COIL 2CH2P v2

ZCL2XFC2PV2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | 2x Fan Coil (2 pipes) | | Control | Up to 3 fan speeds (relays)  on/off valves (relay) | |

Fan coil controller for 2-pipe fan coil units – 2 channels

Fan coil controller for 2-pipe fan coil units which both valve and fan are controlled by relays. [[95]](#footnote-95)

Up to 2 fan coil controllers (1 on/off valve and up to 3 fan speeds) with the following configurable features: cooling, heating or both modes, two type of controls (applied to the valve or to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.

* Fan features: Different relay speed management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
* Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

20 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Scene temporization.

DIN rail installation.

## MAXinBOX FAN COIL 4CH2P v2

ZCL4XFC2PV2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | 4x Fan Coil (2 pipes) | | Control | Up to 3 fan speeds (relays)  on/off valve (relay) | |

Fan coil controller for 2-pipe fan coil units – 4 channels

Fan coil controller for 2-pipe fan coil units with on/off valve and up to 3 fan speeds, which both valve and fan are controlled by relays. [[96]](#footnote-96)

Up to 4 fan coil controllers (1 on/off valve and up to 3 fan speeds) with the following configurable features: cooling, heating or both modes, two type of controls (applied to the valve or to the fan), cyclical monitoring of the control values, scenes, fan coil on/off, automatic recirculation in cooling, custom initialization and custom actions with bus failure.

* Fan features: Different relay speed management (switching or accumulation), automatic (PI with configurable thresholds or temperature difference) and manual control (with different control objects), delays on activation/deactivation, starting characteristic, different status object.
* Valve features: 1-bit control variable or PI control (configurable PWM), parametrizable value for open, several security delays and times, anti-seize protection,

20 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Scene temporization.

DIN rail installation.

## ZoningBOX 4

ZCL-ZB4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Air zoning ducted  (12 zones) | | Control | Motorized grilles  (4 zones) | |

Ducted air-zoning actuator for up to 4 zones

Actuator for air conditioning zone ducted systems regulated with motorized grilles. [[97]](#footnote-97)

Independent module for motorized grille control (12VDC or 24VDC) for up to 4 different zones with option of connecting 2 grilles in each output. Status object, additional time, customized initialization, lock function, protection against short-circuits and overloads, error notifications.

Independent module for zoning responsible of the logic management between thermostats, HVAC machine and grille control module. Up to 12 climatized areas grouped by up to 2 different HVAC machines. Grille status is defined in function on on/off, climatization mode, setpoint, reference temperature and control signal (from thermostat) following the different control types (over HVAC machine, over grille or setpoint adjustment). HVAC machine control in function on the number of open grilles (status, setpoint, fan speed). Moreover, it has the following features: bypass management, several kinds of delays, grille maintenance, scenes.

Maximum consumption in each grille output: 750mA.

## ZoningBOX 6

ZCL-ZB6

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Air zoning ducted  (12 zones) | | Control | Motorized grilles  (6 zones) | |

Ducted air-zoning actuator for up to 6 zones

Actuator for air conditioning zone ducted systems regulated with motorized grilles. [[98]](#footnote-98)

Independent module for motorized grille control (12VDC or 24VDC) for up to 6 different zones with option of connecting 2 grilles in each output. Status object, additional time, customized initialization, lock function, protection against short-circuits and overloads, error notifications.

Independent module for zoning responsible of the logic management between thermostats, HVAC machine and grille control module. Up to 12 climatized areas grouped by up to 2 different HVAC machines. Grille status is defined in function on on/off, climatization mode, setpoint, reference temperature and control signal (from thermostat) following the different control types (over HVAC machine, over grille or setpoint adjustment). HVAC machine control in function on the number of open grilles (status, setpoint, fan speed). Moreover, it has the following features: bypass management, several kinds of delays, grille maintenance, scenes.

Maximum consumption in each grille output: 750mA.

## HeatingBOX 230V 4X

ZCL-4HT230

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | 4 underfloor heating area, heaters… | | Control | 230VAC on/off electric valves | |

Heating actuator for up to 4 channels 230VAC

Heating actuator that allows to control up to 4 outputs for on/off valves (230VAC valves). [[99]](#footnote-99)

4 configurable outputs for electromechanics valves control with manual test/supervision through push buttons and LEDs. Up to 5 valves can be connected to the same output. Features:

* Overall: start-up delay, notifications of short circuit/overload error and all valves are closed. Maximum control value Anti‑seize protection.
* Individual: control method (1bit, 1 byte), normally closed/open valves, status object, lock, alarms, cyclical monitoring of control signal, customized start-up.

4 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail installation.

A sole 230VAC power input for all outputs.

Maximum supported current by relays is 200mA.

## HeatingBOX 230V 8X

ZCL-8HT230

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | 8 underfloor heating area, heaters… | | Control | 230VAC on/off electric valves | |

Heating actuator for up to 8 channels 230VAC

Heating actuator that allows to control up to 8 outputs for on/off valves (230VAC valves). [[100]](#footnote-100)

8 configurable outputs for electromechanics valves control with manual test/supervision through push buttons and LEDs. Up to 5 valves can be connected to the same output. Features:

* Overall: start-up delay, notifications of short circuit/overload error and all valves are closed. Maximum control value Anti‑seize protection.
* Individual: control method (1bit, 1 byte), normally closed/open valves, status object, lock, alarms, cyclical monitoring of control signal, customized start-up.

8 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail installation.

A sole 230VAC power input for all outputs.

Maximum supported current by relays is 200mA.

## HeatingBOX 24V 4X

ZCL-4HT24

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | 4 underfloor heating area, heaters… | | Control | 24VAC/DC on/off electric valves | |

Heating actuator for up to 4 channels 24VAC/DC

Heating actuator that allows to control up to 4 outputs for on/off valves (24VAC/DC valves). [[101]](#footnote-101)

4 configurable outputs for electromechanics valves control with manual test/supervision through push buttons and LEDs. Up to 5 valves can be connected to the same output. Features:

* Overall: start-up delay, notifications of short circuit/overload error and all valves are closed. Maximum control value Anti‑seize protection.
* Individual: control method (1bit, 1 byte), normally closed/open valves, status object, lock, alarms, cyclical monitoring of control signal, customized start-up.

4 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail installation.

A sole 24VAC – 24VDC power input for all outputs.

Maximum supported current by relays is 1A.

## HeatingBOX 24V 8X

ZCL-8HT24

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | 8 underfloor heating area, heaters… | | Control | 24VAC/DC on/off electric valves | |

Heating actuator for up to 8 channels 24VAC/DC

Heating actuator that allows to control up to 8 outputs for on/off valves (24VAC/DC valves). [[102]](#footnote-102)

8 configurable outputs for electromechanics valves control with manual test/supervision through push buttons and LEDs. Up to 5 valves can be connected to the same output. Features:

* Overall: start-up delay, notifications of short circuit/overload error and all valves are closed. Maximum control value Anti‑seize protection.
* Individual: control method (1bit, 1 byte), normally closed/open valves, status object, lock, alarms, cyclical monitoring of control signal, customized start-up.

8 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail installation.

A sole 24VAC – 24VDC power input for all outputs.

Maximum supported current by relays is 1A.

## FANinBOX 230V 1CH

ZCLFB230C1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Ceiling fan | | Control | 230V | |

Ceiling fan controller for fan units powered at 230VAC

Actuator with a channel for fan speed control in fan units, powered at 230VAC. [[103]](#footnote-103)

Output for the control of ceiling fan with test and supervision through push buttons and LEDs. Features: 3 fan speeds (and Stop), status object, starting characteristic, initial configuration, scenes, timed off, lock, relay switching counter.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail installation.

Input for power supply: 230VAC.

Maximum supported current by relays is 1A.

## FANinBOX 110V 1CH

ZCLFB110C1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | HVAC System | Ceiling fan | | Control | 110V | |

Ceiling fan controller for fan units powered at 110VAC

Actuator with a channel for fan speed control in fan units, powered at 110VAC. [[104]](#footnote-104)

Output for the control of ceiling fan with test and supervision through push buttons and LEDs. Features: 3 fan speeds (and Stop), status object, starting characteristic, initial configuration, scenes, timed off, lock, relay switching counter.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

DIN rail installation.

Input for power supply: 110VAC.

Maximum supported current by relays is 1A.

# SENSORS

## QUAD Plus

ZIO-QUADP

|  |  |
| --- | --- |
|  |  |

4-Analogue/Digital input module

4 independent dry contact analogic/digital inputs that are configurable as binary inputs, temperature probes or motion detector. [[105]](#footnote-105)

4 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

4 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

Flush mounting.

## RailQUAD 8

ZIO-RQUAD8

|  |  |
| --- | --- |
| Z:\03-TECNICO\imagen_producto\rail_quad_8ch.png |  |

Universal interface with 2 binary inputs/LED outputs

8-Analogue/Digital input module

Device with 8 independent dry contact analogic/digital inputs that are configurable as binary inputs, temperature probes or motion detector.[[106]](#footnote-106)

8 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

8 Zennio Thermostat:

* Control of cooling and/or heating with up to 2 system in each mode. Automatic or manual mode change.
* Basic thermostat with simple setpoint or advanced thermostat with advanced modes: comfort, standby, economy, protection (open window).
* 2-point control with hysteresis, continuous PI or PWM-PI for each output variable.

DIN rail installation.

## BIN 2X

ZIO-BIN2X

|  |  |
| --- | --- |
| BIN2X_2000x2000 |  |

Universal interface with 2 binary inputs/LED outputs (configurable)

2 configurable connectors independently as binary inputs, low current LED outputs or electronic relay control [[107]](#footnote-107).

2 inputs/low current outputs individual configuration as:

* Binary input: push button with press type detection (short press, long press, double press) and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor, or pulse counter. Debounce time, lock feature.
* LED lighting output: status object, inverted on/off, timer and flashing features.
* Electronic relay control (heating actuator) with the following features:
  + Common: notifications of all valves are closed. Maximum control value Anti‑seize protection.
  + Individual: control method (1bit, 1 byte), normally closed/open valves, status object, lock, alarms, cyclical monitoring of control signal, customized start-up.

## BIN 4X

ZIO-BIN4X

|  |  |
| --- | --- |
| BIN4X_2000x2000 |  |

Universal interface with 2 binary inputs/LED outputs (configurable)

4 configurable connectors independently as binary inputs, low current LED outputs or electronic relay control [[108]](#footnote-108).

4 inputs/low current outputs individual configuration as:

* Binary input: push button with press type detection (short press, long press, double press) and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor, or pulse counter. Debounce time, lock feature.
* LED lighting output: status object, inverted on/off, timer and flashing features.
* Electronic relay control (heating actuator) with the following features:
  + Common: notifications of all valves are closed. Maximum control value Anti‑seize protection.
  + Individual: control method (1bit, 1 byte), normally closed/open valves, status object, lock, alarms, cyclical monitoring of control signal, customized start-up.

## BIN 44

ZIO-BIN44

|  |  |
| --- | --- |
| BIN44_2000x2000 |  |

Universal interface with 4 binary inputs and 4 LED outputs

4 independently binary inputs and 4 low current LED outputs or electronic relay control outputs [[109]](#footnote-109).

4 Binary input: push button with press type detection (short press, long press, double press) and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor, or pulse counter. Debounce time, lock feature.

4 outputs that are individual configurable as:

* LED lighting output: status object, inverted on/off, timer and flashing features.
* Electronic relay control (heating actuator) with the following features:
  + Common: notifications of all valves are closed. Maximum control value Anti‑seize protection.
  + Individual: control method (1bit, 1 byte), normally closed/open valves, status object, lock, alarms, cyclical monitoring of control signal, customized start-up.

## EPOXI TEMPERATURE PROBE

ZN1AC-NTC68E

|  |  |
| --- | --- |
|  |  |

Epoxy temperature probe. Accessory.

Accessory that connected to an input from a KNX device is used to measure the temperature of the surrounding air, thus enabling to know the temperature of a room, and to apply this value to several processes, such as the thermostatic control of a room. Operating temperature: -30ºC to 90ºC. [[110]](#footnote-110)

It needs to be connected to an analogue input (KNX device).

## EPOXI TEMPERATURE PROBE STIFF

ZACNTCF

|  |  |
| --- | --- |
|  |  |

Epoxy Temperature probe (Stiff cable). Accessory.

Accessory that connected to an input from a KNX device is used for temperature measurement. The epoxy probe stiff cable is useful for more complex installations, like canalizations (for example, for radiant floor protection), making easier its installation without any kind of guide cable. It is used to measure the temperature of the surrounding air, thus enabling to know the temperature of a room, and to apply this value to several processes, such as the thermostatic control of a room. Operating temperature: -30ºC to 125ºC. [[111]](#footnote-111)

It needs to be connected to an analogue input (KNX device).

## STEEL TEMPERATURE PROBE

ZAC-NTC68S

|  |  |
| --- | --- |
|  |  |

Steel temperature probe. Accessory.

Accessory that connected to an input from a KNX device is used for temperature measurement. The epoxy probe stiff cable is useful for more complex installations, like canalizations (for example, for radiant floor protection), making easier its installation without any kind of guide cable. It is used to measure the temperature of the surrounding air, thus enabling to know the temperature of a room, and to apply this value to several processes, such as the thermostatic control of a room. Operating temperature: -30ºC to 125ºC. [[112]](#footnote-112)

It needs to be connected to an analogue input (KNX device).

## 10K TEMPERATURE PROBE

9900015

|  |  |
| --- | --- |
|  |  |

**10K NTC probe for custom inputs – Mini size**

10K NTC temperature probe for Zennio inputs which allow custom NTC probe configuration. The compact size of this probe makes its installation in switches and sockets frames easier; it is also perfect to be connected in touch panels inputs where discretion is paramount.

Operating temperature: -40ºC to 105ºC. [[113]](#footnote-113)

Compatibility: This accessory must be connected to an input of a Zennio device that must allow NTC custom probe configuration. To find out if a device is compatible with this accessory, consult the data sheet of the device in question.

## SQ-AmbienT

ZAC-SQAT

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | **Frame** | **Colour** | **Reference** | | Polycarbonate | Black | ZAC-SQAT-A | | Polycarbonate | Silver | ZAC-SQAT-S | | Polycarbonate | White | ZAC-SQAT-W | |

Square temperature probe. Accessory.

Accessory that connected to an input from a KNX device is used for temperature measurement Temperature probe from the Square family keeping a uniform aesthetics when integrating ambient temperature probes, providing beauty to this technical element. Available in standard design (white, silver and black colors) printed on a high-strength tempered glass.

It is used to measure the temperature of the surrounding air, thus enabling to know the temperature of a room, and to apply this value to several processes, such as the thermostatic control of a room. Operating temperature: -30ºC to 90ºC. [[114]](#footnote-114)

It needs to be connected to an analogue input (KNX device).

## Flat AmbienT

ZACFAT

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | Black | ZACFATA | | Silver | ZACFATS | | White | ZACFATW | | Gloss white | ZACFATGW | |

Flat temperature probe. Accessory.

Accessory that connected to an input from a KNX device is used for temperature measurement Temperature probe from the FLAT family keeping a uniform aesthetics when integrating ambient temperature probes, providing beauty to this technical element. Available in standard design (white, silver and black colors) printed on a high-strength tempered glass.

It is used to measure the temperature of the surrounding air, thus enabling to know the temperature of a room, and to apply this value to several processes, such as the thermostatic control of a room. Operating temperature: -30ºC to 90ºC. [[115]](#footnote-115)

It needs to be connected to an analogue input (KNX device).

## FLAT SENSATO v2

ZSFSENV2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | **Frame** | **Colour** | **Reference** | | Polycarbonate | Black | ZSFSENV2A | | Polycarbonate | Silver | ZSFSENV2S | | Polycarbonate | White | ZSFSENV2W | | Polycarbonate | Gloss White | ZSFSENV2GW | |

KNX Temperature and humidity sensor for flush mounting

KNX Humidity and temperature sensor for flush mounting with a flat design. It measures ambient temperature, relative humidity and calculates dew-point, so that it can send alarms for humidity, temperature and condensation. The LED indicator shows the current relative humidity status. It includes 10 logical functions and 2 analog-digital inputs, which can be configured as binary inputs for sensors and potential-free push buttons, as temperature probe inputs or as motion sensor inputs.

Available options: anthracite, silver, white and gloss white. [[116]](#footnote-116).

Ambience temperature and relative humidity measurement, with dew-point calculation and humidity, temperature and condensation alarms.

Indicator LED with 2 or 3 colours with colour change in function on relative humidity.

2 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

## PRESENTIA C v2

ZPDC30LV2

|  |  |
| --- | --- |
|  |  |

Presence detector with luminosity sensor for ceiling mounting. 30 m diameter detection area.

Presence detector with KNX bus connection, with luminosity sensor. 360° detection thanks to 4 sensors and 30m of length of detection. Ceiling mounting (flush or surface). Calibration of luminosity sensor for work environments and constant luminosity regulation. Moreover, several channels of detection are available with features depending of the use [[117]](#footnote-117).

4 PIR sensors with individualized sensibility adjustment. Luminosity sensor with correction and with periodic sending and/or with value change. Enabling/disabling detection LED indicators by parameter.

Detection channels with the following features: selection of activation sensors, automatic mode or semiautomatic mode (with activation or deactivation by object). Both detection length and blind time are configurable. Lock, forced sate, external movement sensor (master/slave configuration), different types of sending and configurations (different types of objects, periodic sending, delay, different configuration for day and night). Different configurations in function on channel use.

Up to 6 channels configurable as:

* Presence monitoring.
* Lighting control: detection state depends on current luminosity.
* HVAC control: with a filter that makes the HVAC machine turn on only when room presence is detected in a continuous way avoiding it of turning on during short time.

Up to 2 constant light control channels: it adapts the room luminosity contribution

Occupation detection in function on both presence detection and a door contact. Occupation state, false not occupation, lock.

## PRESENTIA W0

ZPDW0

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | Anthracite | ZPDW0A | | Silver | ZPDW0S | | White | ZPDW0W | |

**KNX motion detector for flush mounted in wall.**

Motion detector for in-wall flush mounting into 55 x 55 mm frame, with a detection area of 180º and up to 10 meters length of detection. Fitting with Tecla 55, Flat 55 family and Zennio ZS55 frames, switches and sockets. It includes several channels to be configured for lighting switching control according to luminosity threshold or according to motion detection only. It has two independent sensors whose sensitivity settings can be adjusted for each sensor individually. Master/slave configuration allows using several detectors for larger areas. Installation in standard mounting box with 55 x 55 frames of 1/2/3/4 module[[118]](#footnote-118).

6 presence detection channels with periodic and delayed sending (binary, scene, HVAC, percentage). Luminosity-dependent presence detection. Status lock/unlock and force state.

1 occupancy detection channel with master/slave configuration and triggered upon door opening or closing. Periodic and delayed sending (binary, scene, HVAC, percentage).

Luminosity measurement with periodic sending or upon value change. Luminosity-dependent notifications.

Day/Night configuration.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

1 LED to indicate motion detection.

Available colours: anthracite and white.

## PRESENTIA W1

ZPDW1

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | Anthracite | ZPDW1A | | Silver | ZPDW1S | | White | ZPDW1W | | Gloss White | ZPDW1GW | |

Presence detector with luminosity sensor for wall mounting. 10 m detection length.

Presence detector with luminosity sensor for wall mounting in standard frames 55x55mm, with a detection length of 10 meters. 180º detection thanks to 2 sensors.

1 backlighted capacitive button: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

6 presence detection channels with periodic and delayed sending (binary, scene, HVAC, percentage). Luminosity-dependent presence detection. Status lock/unlock and force state.

1 occupancy detection channel with master/slave configuration and triggered upon door opening or closing. Periodic and delayed sending (binary, scene, HVAC, percentage).

Luminosity measurement with periodic sending or upon value change. Luminosity-dependent notifications.

Day/Night configuration.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

1 LED to indicate motion detection.

Models without buttons or with 1 or 2 buttons. Available with standard design or custom design.

## PRESENTIA W2

ZPDW2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | Anthracite | ZPDW2A | | Silver | ZPDW2S | | White | ZPDW2W | | Anthracite - Hotel | ZPDW2AH | | Silver - Hotel | ZPDW2SH | | White - Hotel | ZPDW2WH | |

Presence detector with luminosity sensor for wall mounting. 10 m detection length.

Presence detector with luminosity sensor for wall mounting in standard frames 55x55mm, with a detection length of 10 meters. 180º detection thanks to 2 sensors.

2 backlighted capacitive buttons that can be configured as couple or individual: switch with press type detection, scene, constant, shutters, dimmer, indicator, room state.

6 presence detection channels with periodic and delayed sending (binary, scene, HVAC, percentage). Luminosity-dependent presence detection. Status lock/unlock and force state.

1 occupancy detection channel with master/slave configuration and triggered upon door opening or closing. Periodic and delayed sending (binary, scene, HVAC, percentage).

Luminosity measurement with periodic sending or upon value change. Luminosity-dependent notifications.

Day/Night configuration.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

1 LED to indicate motion detection.

Available with standard design, hotel or custom design.

## EyeZen TP

ZPDEZTP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | Anthracite | ZPDEZTPA | | White | ZPDEZTPW | |

Presence detector with luminosity sensor for false ceiling mounting.

Presence detector with luminosity sensor for false ceiling mounting, with a detection length of 6 meters.

PIR sensor with sensibility adjustment. Luminosity sensor with correction and with periodic sending and/or with value change. Enabling/disabling detection LED indicators by parameter.

Detection channels with the following features: selection of activation sensors, automatic mode or semiautomatic mode (with activation or deactivation by object). Both detection length and blind time are configurable. Lock, forced sate, external movement sensor (master/slave configuration), different types of sending and configurations (different types of objects, periodic sending, delay, different configuration for day and night). Different configurations in function on channel use.

Up to 6 channels configurable as:

* Presence monitoring.
* Lighting control: detection state depends on current luminosity.
* HVAC control: with a filter that makes the HVAC machine turn on only when room presence is detected in a continuous way avoiding it of turning on during short time.

Up to 2 constant light control channels: it adapts the room luminosity contribution

Occupation detection in function on both presence detection and a door contact. Occupation state, false not occupation, lock.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

## EyeZen IN

ZPDEZIN

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | Anthracite | ZPDEZINA | | White | ZPDEZINW | |

Presence detector with luminosity threshold for false ceiling mounting. Accessory

Presence detector with luminosity sensor with the following features[[119]](#footnote-119):

Channels for activating lighting in function of presence and luminosity (%).

Channels for HVAC management depending on presence.

Master/Slave function.

Detection indicator LEDs.

Detection area: 6m diameter.

Dimensions: 58mm diameter.

It needs to be connected to an analogue input (KNX device).

## EyeZen RF 915

ZPDEZRF915

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | Anthracite | ZPDEZRF915A | | White | ZPDEZRF915W | |

KNX RF motion detector for ceiling mounting (915 MHz).

KNX RF motion detector for recessed ceiling installation. Wireless installation with a 360º and up to 6 meters in diameter detection area. 1 channel for telegram sending on motion detection events. Sensitivity can be adjusted to meet detection requirements. 1/2AA battery powered with up to 3 years duration. Low battery notification. Transmission frequency election will depend on the country where the device is installed. 915 MHz is typically used in America, Australia, and Israel. [[120]](#footnote-120).

KNX RF (RF4.R @ 915.0 MHz) device for motion detection.

Configurable transmission power.

Motion detection through PIR technology with the following features:

* Periodic and delayed sending (binary, scene, scaling).
* Motion-dependent climate control.

Sensor with configurable sensitivity.

Motion indicator LED.

Tamper contact with parameterizable sendings.

Detection range of up to Ø 6 m.

HVAC-control dedicated detection.

Low-battery warning functionality.

## EyeZen RF 868

ZPDEZRF868

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | Anthracite | ZPDEZRF868A | | White | ZPDEZRF868W | |

KNX RF motion detector for ceiling mounting (868 MHz).

KNX RF motion detector for recessed ceiling installation. Wireless installation with a 360º and up to 6 meters in diameter detection area. 1 channel for telegram sending on motion detection events. Sensitivity can be adjusted to meet detection requirements. 1/2AA battery powered with up to 3 years duration. Low battery notification. Transmission frequency election will depend on the country where the device is installed. 868 MHz is typically used in European countries. [[121]](#footnote-121).

KNX RF (RF1.R @ 868.3 MHz) device for motion detection.

Configurable transmission power.

Motion detection through PIR technology with the following features:

* Periodic and delayed sending (binary, scene, scaling).
* Motion-dependent climate control.

Sensor with configurable sensitivity.

Motion indicator LED.

Tamper contact with parameterizable sendings.

Detection range of up to Ø 6 m.

HVAC-control dedicated detection.

Low-battery warning functionality.

## WinDoor RF 915 – SUBJECT TO CHANGES

ZPDEZRF915

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | Black | ZRFWD915B | | White | ZRFWD915W | | Grey | ZRFWD915G | | Dark Brown | ZRFWD915DB | |

**KNX RF magnetic contact for door/window (915 MHz)**

Wireless magnetic contact for surface mounting in door or window, which detects and notifies their opening/closing through the KNX RF standard (915 MHz) [[122]](#footnote-122).

Device that detects and notifies the opening and closing of doors and windows, communicating completely wirelessly by radio frequency. This device is designed to be placed in the frame of doors and windows easily.

Door/window opening and closing detection with the possibility of configuring delays and periodic sends.

Configurable transmission power.

Alarms to indicate if there is tampering or low battery in the device.

## WinDoor RF – SUBJECT TO CHANGES

ZPDEZRF

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | Black | ZRFWDB | | White | ZRFWDW | | Grey | ZRFWDG | | Dark Brown | ZRFWDDB | |

**KNX RF magnetic contact for door/window (868 MHz)**

Wireless magnetic contact for surface mounting in door or window, which detects and notifies their opening/closing through the KNX RF standard (868 MHz) [[123]](#footnote-123).

Device that detects and notifies the opening and closing of doors and windows, communicating completely wirelessly by radio frequency. This device is designed to be placed in the frame of doors and windows easily.

Door/window opening and closing detection with the possibility of configuring delays and periodic sends.

Configurable transmission power.

Alarms to indicate if there is tampering or low battery in the device.

## Door/Window flush-mounted contact – aluminium or wooden

ZACWDF1

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | White | ZACWDF1W | | Grey | ZACWDF1G | | Brown | ZACWDF1B | |

**Magnetic contact for flush mounting in aluminium or wooden door or window**

Zennio magnetic contact for flush mounting in aluminium or wooden door or windows. Available in 3 colours. This accessory may be connected to any Zennio device with binary or analog-digital inputs [[124]](#footnote-124).

Its main features are the following ones:

Flush-mounted in aluminium or wooden doors and windows

Built in ABS.

Potential-free contact.

Normally-open contact (when the magnet is not present).

Dimensions:

* Magnet: Ø11 x 19 mm
* Contact: Ø11 x 28 mm

## Door/Window flush-mounted contact – metal

9900046xx

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | White | 990004607 | | Brown | 990004612 | |

**Magnetic contact for flush mounting in metal door or window**

Zennio magnetic contact for flush mounting in metal door or windows. Available in 2 colours. This accessory may be connected to any Zennio device with binary or analog-digital inputs [[125]](#footnote-125).

Its main features are the following ones:

Flush-mounted in metal doors and windows

Built in ABS.

Potential-free contact.

Normally-open contact (when the magnet is not present).

Dimensions:

* Magnet: Ø24.5 x 21 mm
* Contact: Ø24.5 x 30 mm

## Door/Window surface-mounted contact – L

9900003xx

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | White | 990000307 | | Silver | 990000306 | | Brown | 990000312 | |

**Door or window surface-mounted magnetic contact. Large**

Zennio magnetic contact for surface mounting on door or windows. Large. Available in 3 colours. This accessory may be connected to any Zennio device with binary or analog-digital inputs [[126]](#footnote-126).

Its main features are the following ones:

Surface mounting.

Built in ABS.

Potential-free contact.

Normally-open contact (when the magnet is not present).

Dimensions:

* Magnet: 50x14x12 mm
* Contact: 50x14x12 mm

## Door/Window surface-mounted contact – S

9900012xx

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Colour** | **Reference** | | White | 990001207 | | Silver | 990001206 | | Brown | 990001212 | |

**Door or window surface-mounted magnetic contact. Small**

Zennio magnetic contact for surface mounting on door or window. Small. Available in 3 colours. This accessory may be connected to any Zennio device with binary or analog-digital inputs [[127]](#footnote-127).

Its main features are the following ones:

Surface-mounted on doors and windows

Built in ABS.

Potential-free contact.

Normally-open contact (when the magnet is not present).

Dimensions:

* Magnet: 51x10x8 mm
* Contact: 51x10x8 mm

# MULTIMEDIA

## AudioInRoom

ZMU-AUIR

|  |  |
| --- | --- |
| C:\Users\fernando\AppData\Local\Microsoft\Windows\INetCache\Content.Word\AudioInRomm 2000x2000.png |  |

Audio KNX Controller with Bluetooth and auxiliary input. 4 outputs x 10W.

KNX interface able to reproduce audio from an external device connected via Bluetooth or using auxiliary input. [[128]](#footnote-128)

Available audio controls: on/off, play/stop, next/previous track, volume (absolute, relative).

Selection of audio reception source: Bluetooth or Aux input.

Bluetooth connection with up to 2 paired devices: Check‑in (ID and PIN creation), pairing, check‑out (erasing of pairing devices).

Tone: sound is reproduced by speakers during a short time.

2 stereo channels with independent configuration and amplified outputs: stereo or mono, volume limitation by object.

Overheating alarm.

External power 24VDC.

2 stereo/mono channels with amplified output (minimum power 10W, 4-16Ohm). Using ZAC-LS3 and ZAC-LS4 speakers are recommended.

Asymmetric (stereo) auxiliary input.

## IRSC Open

ZN1CL-IRSC

|  |  |
| --- | --- |
|  |  |

Control multimedia devices by IR codes

IRSC Open is designed to allow control of consumer electronic devices, such as TVs, from a KNX system. It aims to emulate the infrared remote controls that are used to command the consumer electronic device. Up to 4 remote controls and up to 30 commands per IRSC. Up to 6 macros with 4 steps each and delays.

## SKX Advance

ZN1RX-SKXOPEN

|  |  |
| --- | --- |
|  |  |

Bus KNX to RS-232 Interface

KNX-RS-232 bidirectional communication interface. IRSC Open allows the connection of the KNX bus with other devices through a RS-232 serial and bidirectional communication.

* Baud rates: 1200, 1400, 4800, 9600 or 19200 bauds.
* Parity: even, odd, no parity
* Reception complete mode: Time Out, end-frame byte
* Number of communication objects: 65 (40 of 1 bit, 20 of 1 byte and 5 of 14 bytes)
* Error identification: several 1-bit objects
* Protocol length: the frames configured by parameter in SKX Advance may have a length of up to 29 bytes, thanks to the possibility of using header, footer and subframes on their configuration.

## SKX Open

ZN1RX-SKXOPEN

|  |  |
| --- | --- |
|  |  |

Bus KNX to RS-232 Interface

KNX-RS-232 bidirectional communication interface. IRSC Open allows the connection of the KNX bus with other devices through a RS-232 serial and bidirectional communication.

* Baud rates: 1200, 1400, 4800, 9600 or 19200 bauds.
* End of frame recognition with Timeout or End Frame Byte.
* 44 communication objects.
* Error detection: 1 byte – error code with bit mask.
* Maximum frame length: 10 bytes / 20 HEX characters (without including End Frame Byte, if exists)

# KNX ENERGY SAVERS

## KES PLUS

ZIO-KESP

|  |  |
| --- | --- |
| C:\Users\fernando\AppData\Local\Microsoft\Windows\INetCache\Content.Word\KES Plus 2000x2000.png |  |

KNX Electrical energy meter

Electric energy economizer for monophasic or triphasic systems. It is able to measure and notify not only consumed or produced energy but also associated cost, CO2 emissions, active/reactive power and other energy use related factors in facilities.

Up 3 monophasic independent channels or a triphasic channel with the following configuration and options:

* 3 registers for instant active power consumption (kW), energy consumption or production (kWh), cost of the energy consumption as well as the volume of the CO2 emissions required to generate such energy.
* Hourly, daily, weekly and monthly energy consumption report. Total energy consumption under request (through a global request object).
* Actual and average values of the consumed energy, its cost and the corresponding CO2 emissions (every day, every week, every month or upon request).
* Partial register reset: automatic or through object.

Other features: time and date updatable through object, tariff (6 different tariffs) notifications of different situations (overvoltage, low voltage, excess of consumption, energy generation, economic cost, CO2 emissions), alarms for power excess and low power.

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Current grid operating line frequency: 50Hz or 60Hz.

Maximum current in each channel: 120A.

Zennio current transformer references: ZN1AC‑CST60, ZN1AC‑CST120, 9900045.

## KCI 4 S0

ZRX-KCI4S0

|  |  |
| --- | --- |
| C:\Users\Fernando\AppData\Local\Temp\Rar$DIa0.739\KCI 2000x2000.png |  |

KNX Interface for consumption meters

KNX Consumption Interface for four consumption meters with S0-pulse outputs to monitor electricity (energy and power), water and/or gas (volume and flow rate) consumption measure in the KNX bus. It includes battery that allows saving S0 pulses in case of electric failure.

Up to 4 S0 inputs with LED indicators of pulse receiving. They are configurable as electric or gas/water measurement. They can be (individually or globally) disabled by object. Each input has the following characteristics:

* Configuration of pulse ratio and equivalent CO2 emission ratio.
* Total register and up to 3 partial registers: configuration of initial consumption through parameter or object, CO2 equivalent emissions, cost in up to 4 tariffs, partial registers with automatic reset or using objects, configuration of sending (disabled, periodic, with value change).
* Power/Flow: instantaneous value or average value, configuration of sending (disabled, periodic, with value change).
* Other features: tariffs, notifications (consumption, costs, C02), alarms (excess or low power/flow), data request by object.

Date and time updatable through object.

Battery to buffer S0 pulses during a KNX power failure. LED indicators for the battery status (low battery and/or run out of battery).

10 logical functions: different sizes and format of operands, internal variables and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Measurement that emits S0 pulses are needed, compliant with EN 62053-31.

## KEM

ZEMKEM

|  |  |
| --- | --- |
|  |  |

KNX energy monitor

KNX Energy Monitor for electricity and water consumption, as well as heating/cooling energy consumption for up to 2 climate systems. It has 3 channels to monitor electricity consumption (max 20 A), 4 channels to connect turbine flow meters (max 15 mA at 5 VDC) and 5 analog-digital inputs to connect flow and return water temperature probes. It also includes 10 logical functions, consumption dependent notifications and alarms. The 5 VDC power output can supply power for the connected flow meters.

Power and energy estimation for up to 3 phases and global consumption. Configuration and options:

* Consumption (W, kW), energy consumption (Wh, kWh).
* Configurable power factor, power supply voltage and current grid operating line frequency.
* Maximum current in each channel: 60A.

Water consumption estimation for up to 4 channels and global consumption. Configuration and options:

* Flow (l/h, m3/h), volume (l, m3).
* Configurable flow sensor parameters.

Estimation of heat consumption for up to 2 energy modules.

Up to 3 partial register and a total register with configurable sending modes (disabled, periodic, with value change). Customizable register reset (automatic, through object).

Other features: time and date updatable through object, notifications of excess of energy consumption, alarms for low/high power/current/flow, value kept on registers after download.

5 analogue/digital inputs that can be configurable like:

* Binary input: push button with press type detection and different actions (lights, shutters, scenes, numeric, etc.), switch or on/off sensor with security features against breakdown or sabotage. Lock feature.
* Presence detector: up to 3 individual detection channels with multiple actions and options, luminosity detection and occupation detection algorithm.
* Temperature probe with protection features (overheating, overcooling).

10 logical functions: different sizes and format of operands, internal variables, and results, up to 8 triggers, configurable execution condition, up to 4 operation (logic, arithmetic, comparison, conversion) and customized result sending (restrictions, periodic, delay).

Water Flow Sensor with temperature probe (Ref. 9900027/28), pipe nipple with temperature probe (Ref. 9900037/38), current Transformer - 60 A (Ref. ZN1AC-CST60).

# SYSTEM

## ZPSU160

ZPSU160

|  |  |
| --- | --- |
|  |  |

Universal KNX Power Supply 160 mA with additional output (Max. 250 mA)

Generation and monitoring of KNX system power supply (29 VDC). Total consumption of the line should not exceed 160mA (up to 16 KNX devices). Integrated coil. Additional output 29 VDC. Total consumption (KNX bus and additional output) maximum 250 mA. Led status indicator.

## ZPS320HIC110

ZPS-320HIC110

|  |  |
| --- | --- |
|  |  |

KNX System Power Supply 320 mA with additional 29VDC output. Vin=110VAC

Generation and monitoring of KNX system power supply (29 VDC).

Designed to support the higher current consumption at start-up.

Total consumption of the line should not exceed 320mA (up to 32 KNX devices). Integrated coil. Additional output 29 VDC. Total consumption (KNX bus and additional output) maximum 320 mA. Power and overload led status indicator. Reset button.

## ZPS320HIC230

ZPS-320HIC230

|  |  |
| --- | --- |
| \\192.168.70.40\zennio\04-DISEÑO\MATERIAL DISEÑO\RENDERS PRODUCTOS\ZPS320HIC230\2000x2000\ZPS320HIC230_2000x2000.jpg |  |

KNX System Power Supply 320 mA with additional 29VDC output. Vin=230VAC

Generation and monitoring of KNX system power supply (29 VDC).

Designed to support the higher current consumption at start-up.

Total consumption of the line should not exceed 320mA (up to 32 KNX devices). Integrated coil. Additional output 29 VDC. Total consumption (KNX bus and additional output) maximum 320 mA. Power and overload led status indicator. Reset button.

## ZPS640HIC110

ZPS-640HIC110

|  |  |
| --- | --- |
|  |  |

KNX System Power Supply 640 mA with additional 29VDC output. Vin=110VAC

Generation and monitoring of KNX system power supply (29 VDC).

Designed to support the higher current consumption at start-up.

Total consumption of the line should not exceed 640mA (up to 64 KNX devices). Integrated coil. Additional output 29 VDC. Total consumption (KNX bus and additional output) maximum 640 mA. Power and overload led status indicator. Reset button.

## ZPS640HIC230

ZPS-640HIC230

|  |  |
| --- | --- |
|  |  |

KNX System Power Supply 640 mA with additional 29VDC output. Vin=230VAC

Generation and monitoring of KNX system power supply (29 VDC).

Designed to support the higher current consumption at start-up.

Total consumption of the line should not exceed 640mA (up to 64 KNX devices). Integrated coil. Additional output 29 VDC. Total consumption (KNX bus and additional output) maximum 640 mA. Power and overload led status indicator. Reset button.

## Linecoupler CL

ZSYLCCL

|  |  |
| --- | --- |
|  |  |

KNX Linecoupler CL

This device is intended to couple two KNX twisted-pair lines together. Its flexibility makes it possible to connect a KNX sub-line to a KNX mainline or a KNX mainline to a KNX backbone line (line coupler mode), or to simply link together two sub-line segments (line repeater mode). LED status indicators for each line. Configurable test button.

## Zennio KNX USB Interface

ZSYUSBSC

|  |  |
| --- | --- |
|  |  |

KNX USB Interface

KNX USB Interface for ETS configuration and KNX Bus diagnosis and monitoring through a USB port: Support for long messages (up to 228 bytes), USB 2.0 compatibility, Status LEDs

## IP Router CL

ZSYIPRCL

|  |  |
| --- | --- |
|  |  |

**KNX-IP router without auxiliary power supply**

IP Router that can be used as line coupler or area coupler with a IP based backbone or main line, through KNXnet/IP Routing protocol. It also allows programming or monitoring a device from the IP network (PC, BMS system...) by using KNXnet/IP Tunneling protocol (up to 4 connections at the same time).

## KIPI

ZSYKIPI

|  |  |
| --- | --- |
|  |  |

KNX-IP Interface

KIPI allows bidirectional communication between Ethernet and a KNX TP installation. It allows addressing, programming or monitoring components located in a KNX TP network from the Ethernet side by using KNXnet/IP Tunneling protocol, with up to 5 parallel connections. It supports extended frames, with a maximum frame length of up to 254 bytes.

KNXnet/IP tunneling protocol (up to 5 connections). Up to 5 parallel connections from ETS for programming and monitoring (via group monitor).

Maximal APDU length of 254 bytes.

Ethernet 10/100 BaseT IP with RJ45 socket.

Auxiliary power supply is not required.

KNX BCU (TP1-256) included.

High capacity buffer for the reception of telegrams from the Ethernet network.

4 lighting indicators (LEDs): two state indicators for the lines (bus and Ethernet), one more IP factory reset indicator, and one additional indicator for the programming mode.

## KIPI SC

ZSYKIPISC

|  |  |
| --- | --- |
|  |  |

KNX-IP Interface with KNX Secure

KIPI SC allows bidirectional communication between Ethernet and a KNX TP installation. It allows addressing, programming or monitoring components located in a KNX TP network from the Ethernet side by using KNXnet/IP Tunneling protocol, with up to 5 parallel connections. It supports KNX Secure and extended frames, with a maximum frame length of up to 254 bytes.

KNXnet/IP tunneling protocol (up to 5 connections). Up to 5 parallel connections from ETS for programming and monitoring (via group monitor).

Compatibility with KNX Data Security.

Maximal APDU length of 254 bytes.

Ethernet 10/100 BaseT IP with RJ45 socket.

Auxiliary power supply is not required.

KNX BCU (TP1-256) included.

High capacity buffer for the reception of telegrams from the Ethernet network.

4 lighting indicators (LEDs): two state indicators for the lines (bus and Ethernet), one more IP factory reset indicator, and one additional indicator for the programming mode.

## ZMCoup RF 868

ZRFMC868

|  |  |
| --- | --- |
|  |  |

KNX TP-RF Media Coupler (868MHz)

KNX Media coupler for the interconnection of KNX TP lines with wireless KNX RF medium (868 MHz). Support for extended frames (APDU 254 bytes).

* Support for long messages (up to 254 bytes).
* High-capacity internal buffer for the reception of telegrams in installations
* with high bus loads.
* No external power required.
* Lighting indicator (LED): indicates programming mode (red permanent), secure mode (red blinking) and RF traffic (short green blink with every telegram received).
* Retransmitter function.
* Can be used as an area or line coupler with a TP line as main line or main area line.
* Traffic filtering according to the project topology and to the built-in address table.
* Telegram blocking, group and device-configuration telegrams (telegrams destined to physical addresses).

## ZMCoup RF 915

ZRFMC915

|  |  |
| --- | --- |
|  |  |

KNX TP-RF Media Coupler (915MHz)

KNX Media coupler for the interconnection of KNX TP lines with wireless KNX RF medium (915 MHz). Support for extended frames (APDU 254 bytes).

* Support for long messages (up to 254 bytes).
* High-capacity internal buffer for the reception of telegrams in installations
* with high bus loads.
* No external power required.
* Lighting indicator (LED): indicates programming mode (red permanent), secure mode (red blinking) and RF traffic (short green blink with every telegram received).
* Retransmitter function.
* Can be used as an area or line coupler with a TP line as main line or main area line.
* Traffic filtering according to the project topology and to the built-in address table.
* Telegram blocking, group and device-configuration telegrams (telegrams destined to physical addresses).

1. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-1)
2. Zennio Avance y Tecnología S.L. does not accept any responsibility for losses of push messages due to network, hardware or software failures of any kind. [↑](#footnote-ref-2)
3. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-3)
4. Zennio Avance y Tecnología S.L. does not accept any responsibility for losses of push messages due to network, hardware or software failures of any kind. [↑](#footnote-ref-4)
5. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-5)
6. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-6)
7. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-7)
8. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-8)
9. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-9)
10. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-10)
11. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-11)
12. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-12)
13. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-13)
14. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-14)
15. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-15)
16. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-16)
17. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-17)
18. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-18)
19. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-19)
20. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-20)
21. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-21)
22. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-22)
23. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-23)
24. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-24)
25. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-25)
26. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-26)
27. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-27)
28. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-28)
29. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-29)
30. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-30)
31. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-31)
32. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-32)
33. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-33)
34. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-34)
35. Not suitable for mounting on fire sector limit walls. [↑](#footnote-ref-35)
36. Not suitable for mounting on fire sector limit walls. [↑](#footnote-ref-36)
37. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-37)
38. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-38)
39. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-39)
40. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-40)
41. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-41)
42. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-42)
43. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-43)
44. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-44)
45. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-45)
46. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-46)
47. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-47)
48. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-48)
49. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-49)
50. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-50)
51. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-51)
52. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-52)
53. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-53)
54. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-54)
55. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-55)
56. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-56)
57. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-57)
58. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-58)
59. Technical note about testing LED and CFL lamps is available in product webpage. [↑](#footnote-ref-59)
60. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-60)
61. Technical note about testing LED and CFL lamps is available in product webpage. [↑](#footnote-ref-61)
62. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-62)
63. Technical note about testing LED and CFL lamps is available in product webpage. [↑](#footnote-ref-63)
64. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-64)
65. Technical note about testing LED and CFL lamps is available in product webpage. [↑](#footnote-ref-65)
66. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-66)
67. Technical note about testing LED and CFL lamps is available in product webpage. [↑](#footnote-ref-67)
68. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-68)
69. Technical note about testing LED and CFL lamps is available in product webpage. [↑](#footnote-ref-69)
70. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-70)
71. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-71)
72. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-72)
73. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-73)
74. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-74)
75. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-75)
76. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-76)
77. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-77)
78. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-78)
79. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-79)
80. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-80)
81. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-81)
82. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-82)
83. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-83)
84. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-84)
85. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-85)
86. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-86)
87. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-87)
88. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-88)
89. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-89)
90. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-90)
91. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-91)
92. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-92)
93. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-93)
94. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-94)
95. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-95)
96. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-96)
97. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-97)
98. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-98)
99. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-99)
100. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-100)
101. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-101)
102. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-102)
103. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-103)
104. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-104)
105. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-105)
106. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-106)
107. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-107)
108. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-108)
109. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-109)
110. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-110)
111. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-111)
112. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-112)
113. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-113)
114. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-114)
115. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-115)
116. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-116)
117. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-117)
118. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-118)
119. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-119)
120. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-120)
121. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-121)
122. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-122)
123. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-123)
124. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-124)
125. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-125)
126. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-126)
127. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-127)
128. Consult datasheet and user manual for more references, they are available at product web page. [↑](#footnote-ref-128)