



Z41 – VERSION 2.0

Configuration of functionality

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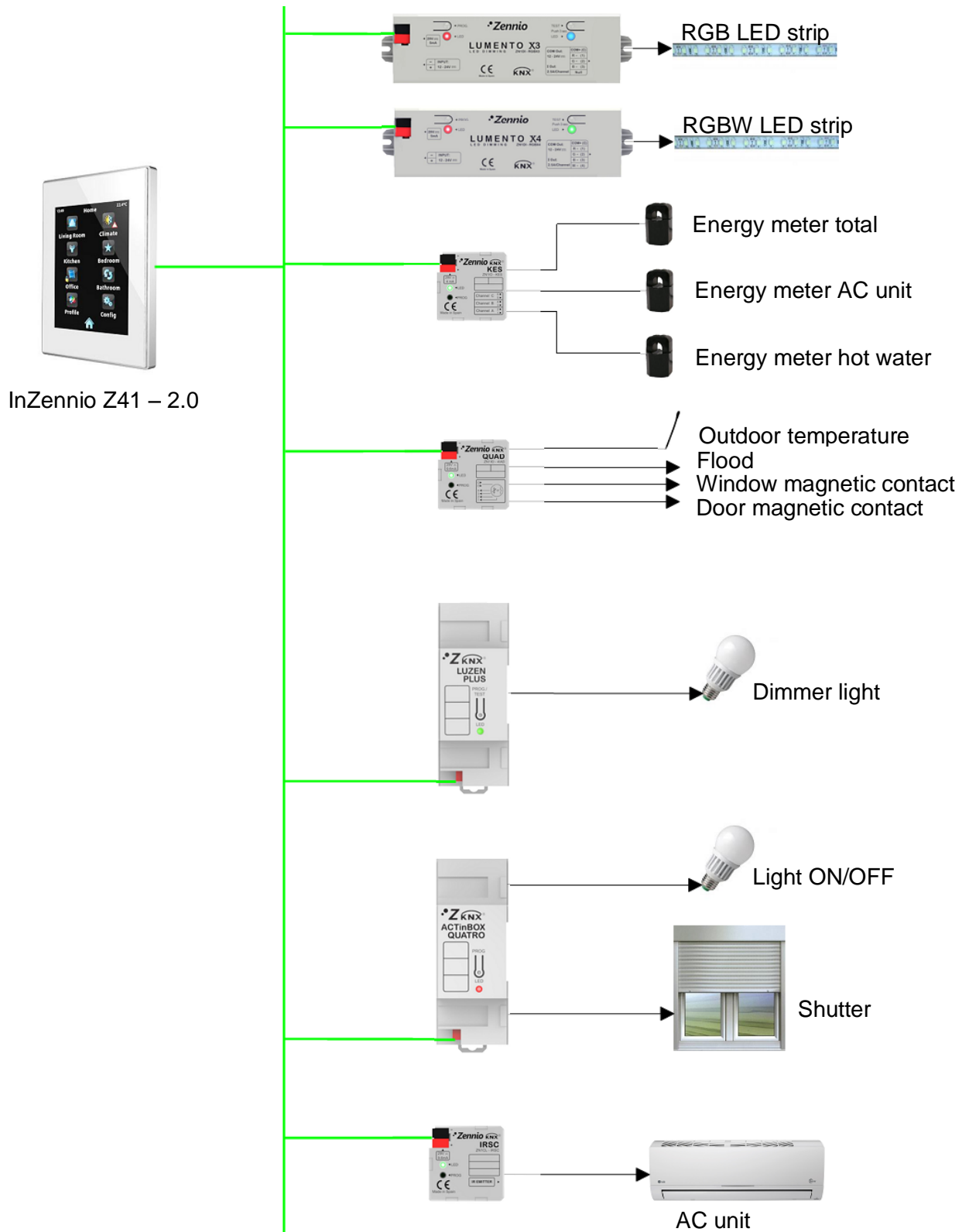
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1 INTRODUCTION

The aim of this document is to explain the functionality of the new version of InZennio Z41 application program. Based on a system with different elements, the KNX devices that control these elements will be configured.

2 INSTALLATION SCHEMA



The project consists of multiple elements that the user can control from InZennio Z41 keypad, once they are integrated in a KNX system, as shown in the diagram above.

These elements are:

- ON/OFF Light
- Dimmable Light
- RGB Light
- RGBW Light.
- Shutters
- AC unit.
- KES electricity consumption meters.
- Outside temperature measurement graphs.
- Indicators of opened or closed door and window.
- Flood Sensor alarm message
- Daily and weekly timers to control AC unit.

For each element in this installation, the configuration of ETS will be explained: the necessary controls in InZennio Z41, the KNX devices that really actuate over these elements, the necessary group addresses for each element and how to associate the communication objects of the KNX devices to the group addresses.

The devices that are used in the project and their version of application program are:

Individual Address	Name	Version
1.1.1	InZennio Z41	2.0
1.1.2	Lumento X3 RGB	1.2
1.1.3	Lumento X4 RGBW	1.1
1.1.4	QUAD	5.0
1.1.5	KES 3xSingle-Phase	2.0
1.1.6	ACTinBOX Quatro	2.2
1.1.7	Luzen Plus	3.0
1.1.8	IRSC Plus	6.1

3 CONFIGURATION IN ETS

First of all, we will configure the general options in the keypad. In the Main Configuration > General tab, these parameters can be configured:

The screenshot displays the configuration interface for the InZennio Z41 device. On the left, a sidebar lists the configuration categories: MAIN CONFIGURATION (General, Security, Touch Lock, Internal Temp. Sensor, Energy Monitor Objects, White Channel Objects), MENU, PAGE 1 through PAGE 6, PROFILE PAGE, and CONFIG PAGE. The 'General' tab is selected under MAIN CONFIGURATION. The main area shows the following settings:

- Power Supply Voltage:** A dropdown menu set to '29 V.'. A note below states: 'Note: this parameter is only used for adjusting the temperature measured by the internal temperature probe'.
- Default Theme (after programming):** A dropdown menu set to 'Night'.
- Show Time:** A dropdown menu set to 'Yes'.
- Show Temperature:** A dropdown menu set to 'Internal Temperature Probe'.
- Ethernet:** A checkbox that is unchecked.
- Thermostat 1:** A checkbox that is unchecked.
- Thermostat 2:** A checkbox that is unchecked.
- WEEKDAYS Initials (Mon...Sun) Letters & Numbers [e.g. MTWTFSS]:** A text input field containing 'MTWTFSS'.
- Label for "Time ON":** A text input field containing 'Time ON'.
- Label for "Time OFF":** A text input field containing 'Time OFF'.
- Label for "Scene":** A text input field containing 'Escena'.

It is very important to set the Power Supply Voltage for the screen and the Show time and Show Temperature options. In this case, the Z41 is connected to an external Power Supply of 29V and the Time and Temperature are shown in the header.

Then, the specific configuration for the control of each element is explained.

3.2 LIGHT ON/OFF

For the control of a switched light, connected to the output 1 of ACTinBOX QUATRO, the device should be configured as shown below:

To control this output of ACTinBOX QUATRO from the Box 1 in Page 1 of Z41, the following configuration is needed:

This configuration could be used in any Box of Z41 to control the ON/OFF of any element in the installation, but the Icons should be selected accordingly.

The table below shows the group addresses that should be created and the communication objects of ACTinBOX QUATRO and InZennio Z41 that should be associated to each group address:

I.Add.	Name	Object	Device	Description
1/0/0	CONTROL LIGHT ON/OFF	9	1.1.1	Switch on/off the light
		96	1.1.6	
1/1/0	STATUS LIGHT ON/OFF	8	1.1.1	Light status
		100	1.1.6	

3.3 DIMMING LIGHT

LuZen Plus will be used to control a dimmable light (conventional 220VAC, for example). The configuration of LuZen Plus in this case should be:

Device: 1.1.7 LuZen Plus

GENERAL	Load Type	Conventional Lamp
FUNCTIONS	Duration of Smooth Dimming [0% to 100% in x1 sec]	10
Status Objects	Economical Mode	No
	Logical Functions	No

GENERAL	Status Objects	Yes
FUNCTIONS	Simple Timer	No
Status Objects	Flashing	No
	Scenes	No
	Sequences	No
	Lock	No
	Secondary On/Off	No
	Memory On/Off (% Recovery at On)	No
	Auto Off	No
	Initial Settings	Default
	Error Identification	No

GENERAL	On/Off	Yes
FUNCTIONS	Send On when	Partially On
Status Objects	Percentage	Yes

The user will control the dimmable light from Box 2 in Page 1 of InZennio Z41, configured as follows:

Device: 1.1.1 InZennio Z41

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 - Box 3
 - Box 4
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- PAGE 6
- PROFILE PAGE
- CONFIG PAGE

Label	LIGHT DIMMER
Visualization	2-button Control
Function	Light Dimming
Action	Left Off, Right On
Dimming Step	100%
Left Button	Light Off 1
Right Button	Light On 1

The table below shows the group addresses that should be created and the communication objects of Luzen Plus and InZennio Z41 that should be associated to each group address:

I.Add.	Name	Object	Device	Description
1/2/0	CONTROL ON/OFF LIGHT DIMMER	12	1.1.1	On / Off light.
		0	1.1.7	
1/2/1	CONTROL DIMMER 4 BITS LIGHT DIMMER	13	1.1.1	Light intensity regulation.
		2	1.1.7	
1/3/1	STATUS VALUE LIGHT DIMMER	11	1.1.1	Status luminosity level.
		8	1.1.7	

3.4 RGB LIGHT

A RGB LED light (LED strip) could be controlled with Lumento X3, configuring parameters as follows:

Device: 1.1.2 LUMENTO X3

- <<GENERAL>>
- <<FUNCTIONS>>

PWM Frequency	488 Hz.
Smooth Dimming	
Smooth Dimming Time 1 [0% to 100% in x0.1 sec]	10
Smooth Dimming Time 2 [0% to 100% in x0.1 sec]	10
Dimming times	
Precise Dimming	At Once
Dimming	Smooth 1
On/Off	At Once
On Light Level	Previous
Max Light Level (%)	100
Independent channel control	Yes
Error Identification	No

The user will control the RGB LED strip from Box 3 in Page 1 of InZennio Z41, configured as a RGB Control. When the user presses in the middle of the box, a pop-up with a color selector will open. The configuration of this RGB Control is detailed below:

The table below shows the group addresses that should be created and the communication objects of Lumento X3 and InZennio Z41 that should be associated to each group address:

I.Add.	Name	Object	Device	Description
1/4/0	CONTROL Lumento X3 - Color R	14	1.1.1	Set brightness value R
		6	1.1.2	
1/4/1	CONTROL Lumento X3 - Color G	15	1.1.1	Set brightness value G
		7	1.1.2	
1/4/2	CONTROL Lumento X3 - Color B	16	1.1.1	Set brightness value B
		8	1.1.2	
1/5/0	STATUS Lumento X3 - Color R	14	1.1.1	Status luminosity level R
		15	1.1.2	
1/5/1	STATUS Lumento X3 - Color G	15	1.1.1	Status luminosity level G
		16	1.1.2	
1/5/2	STATUS Lumento X3 - Color B	16	1.1.1	Status luminosity level B
		17	1.1.2	

3.5 RGBW LIGHT

A RGBW LED light (LED strip) could be controlled with Lumento X4, configuring parameters as follows:

Device: 1.1.3 LUMENTO X4

<<GENERAL>>	<<FUNCTIONS>>
PWM Frequency	488 Hz.
Smooth Dimming	
Smooth Dimming Time 1 [0% to 100% in x0.1 sec]	10
Smooth Dimming Time 2 [0% to 100% in x0.1 sec]	10
Dimming times	
Precise Dimming	At Once
Dimming	Smooth 1
On/Off	At Once
On Light Level	Previous
Max Light Level (%)	100
Independent channel control	Yes
Error Identification	No

<<GENERAL>>	<<FUNCTIONS>>
Status Object	Yes
Send On/Off=1 when	Luminosity is not equal to 0%
Send Luminosity when LEDs are dimming	No
Independent Status Objects	Yes
Color Selection Objects	No
Custom On/Off	No
Simple Timer	No
Flashing	No
Scenes/Sequences	No
Block	No
Start-Up	Default

The user will control the RGBW LED light from Box 4 in Page 1 of InZennio Z41, configured as a RGBW Control. When the user presses in the middle of the box, a pop-up with a color selector will open. The configuration of this RGBW Control is detailed below:

Device: 1.1.1 InZennio Z41

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Label: LIGHT RGBW

Visualization: Other

Function: RGBW Control

Object type: Three single colour objects (DPT 5.001)

RGBW Channel: Channel 1

Enable the selected channel in "Main Config./White Channel Objects" tab

Left Button: Light On 2

Right Button: Themes

In case of a RGBW light control, an additional white channel configuration will be needed. In the Main Configuration>White Channels tab, one of the white Channels should be checked and an additional object will appear for this White Channel. The same Channel should be selected in for the parameter "RGBW Channel" of Box 4 (where the RGBW control is configured). It is possible to control up to 4 white channels from one InZennio Z41.

Device: 1.1.1 InZennio Z41

- ▲ MAIN CONFIGURATION
 - General
 - Security
 - Touch Lock
 - Internal Temp. Sensor
 - Energy Monitor Objects
 - White Channel Objects
- MENU
- PAGE 1
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Channel 1: ☒

Channel 2: ☐

Channel 3: ☐

Channel 4: ☐

The table below shows the group addresses that should be created and the communication objects of Lumento X4 and InZennio Z41 that should be associated to each group address:

I.Add.	Name	Object	Device	Description
1/4/3	CONTROL Lumento X4 - Color R	17	1.1.1	Set brightness value R
		8	1.1.3	
1/4/4	CONTROL Lumento X4 - Color G	18	1.1.1	Set brightness value G
		9	1.1.3	
1/4/5	CONTROL Lumento X4 - Color B	19	1.1.1	Set brightness value B
		10	1.1.3	
1/5/6	CONTROL Lumento X4 - Color W	230	1.1.1	Set brightness value W
		11	1.1.3	
1/5/3	STATUS Lumento X4 - Color R	17	1.1.1	Status luminosity level R
		19	1.1.3	

1/5/4	STATUS Lumento X4 - Color G	18	1.1.1	Status luminosity level G
		20	1.1.3	
1/5/5	STATUS Lumento X4 - Color B	19	1.1.1	Status luminosity level B
		21	1.1.3	
1/5/6	STATUS Lumento X4 - Color W	230	1.1.1	Status luminosity level W
		22	1.1.3	

3.6 SHUTTER

A shutter, connected to channel B of ACTinBOX QUATRO (output 3 and 4), would need the following configuration in ACTinBOX QUATRO to be controlled:

Device: 1.1.6 ACTinBOX QUATRO

GENERAL

<<OUTPUTS>>

-OUTPUT 1

-OUTPUT 2

-CHANNEL B

TYPE: Shutter (No slats)

- NOTE: Slats Positions will be ignored for Shutter types

TIMES:

- Main Time (Shutter Length) [x 0.1 sec.] 150

- Security Time (Pause to change the movement direction) [x 0.1 sec.] 5

- Are total Time UP and DOWN different? No

- Additional time when shutter gets the limit (on Top or at the Bottom) No

FUNCTIONS:

- Status Object Yes

Send current shutter position every second while moving? No

- Precise Control No

- Scenes No

- Alarms No

- Reverse Movement No

- Direct Positioning No

- Start-up Default

The user will control the shutter from Box 1 in Page 2 of InZennio Z41, configured as a Sutter Control:

Device: 1.1.1 InZennio Z41

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Box 1

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Label SHUTTER

Visualization 2-button Control

Function Shutter Control

Action Left Down, Right Up

Left Button Shutter Down 1

Right Button Shutter Up 1

The table below shows the group addresses that should be created and the communication objects of ACTinBOX QUATRO and InZennio Z41 that should be associated to each group address:

I.Add.	Name	Object	Device	Description
5/0/0	MOVE SHUTTER	33	1.1.1	Move shutter
		110	1.1.6	
5/1/0	STOP SHUTTER	34	1.1.1	Stop shutter
		118	1.1.6	
5/2/0	POS SHUTTER	32	1.1.1	Status shutter position
		129	1.1.6	

3.7 AC UNIT CONTROL

To control an AC unit through IR commands, the device IRSC Plus will be used. Its configuration is detailed below:

Device: 1.1.8 IRSC

GENERAL PARAMETERS
STATUS
RESET (Initial Configuration)
RESET (Data Update)
SCENES
TIMERS
WINDOW SENSOR
PRESENCE DETECTOR

Split Model
(See Table on Zennio website)
201
Min. time set between two consecutive IR messages [t=0.1x(sec)]
20
Simplified Mode
(1bit control for Heat and Cool modes)
No
Temperature Range (°)
(only for Heat and Cool modes)
No

GENERAL PARAMETERS
STATUS
RESET (Initial Configuration)
RESET (Data Update)
SCENES
TIMERS
WINDOW SENSOR
PRESENCE DETECTOR

Status
shall this function be used?
Yes
- ON/OFF
Yes
- Mode
Yes
- Fan
Yes
- Swing
Yes

The user will control the AC unit from Page 4 of InZennio Z41, where ON/OFF, Mode, Setpoint, Fan Speed and Swing controls should be configured as follows:

Device: 1.1.1 InZennio Z41

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Box 4
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PROFILE PAGE

Label
ON/OFF AC UNIT
Visualization
2-button Control
Function
Binary Control (icon)
Action
Left 0, Right 1
Off Icon
AC Off
On Icon
AC On
Left Button
Off 1
Right Button
On 1

Device: 1.1.1 InZennio Z41

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Label	SETPOINT
Visualization	Climate Control
Function	Setpoint Control
Action	Left Decrease, Right Increase
Setpoint Type	Absolute
Minimum Value	10 x 1°C
Maximum Value	30 x 1°C
Left Button	Temp Decrease
Right Button	Temp Increase

MAIN CONFIGURATION

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Label	MODE
Visualization	Climate Control
Function	Mode Control
Mode Type	Extended
Heat	<input checked="" type="checkbox"/>
Cool	<input checked="" type="checkbox"/>
Auto	<input checked="" type="checkbox"/>
Fan	<input checked="" type="checkbox"/>
Dry	<input checked="" type="checkbox"/>
Left Button	Arrow Left
Right Button	Arrow Right

MAIN CONFIGURATION

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 - Box 3
 - Box 4
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Label	FAN SPEED
Visualization	Climate Control
Function	Fan Control
Action	Left Decrease, Right Increase
Fan Type	Min/Max
Left Button	Minus
Right Button	Plus

MAIN CONFIGURATION

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Label	SWING
Visualization	2-button Control
Function	Binary Control (text)
Action	Left 0, Right 1
Off Text	STOP
On Text	MOVE
Left Button	Swing Stop
Right Button	Swing Move 1

The table below shows the group addresses that should be created and the communication objects of IRSC Plus and InZennio Z41 that should be associated to each group address

I.Add.	Name	Object	Device	Description
2/0/0	CONTROL ON/OFF AC UNIT	81	1.1.1	Switch on/off ac unit
		0	1.1.8	
2/0/1	CONTROL MODE AC UNIT	87	1.1.1	Change ac unit mode
		18	1.1.8	
2/0/2	CONTROL SETPOINT AC UNIT	84	1.1.1	Change setpoint temperature
		2	1.1.8	
2/0/3	CONTROL FAN SPEED AC UNIT	90	1.1.1	Change fan speed
		4	1.1.8	
2/0/4	CONTROL SWING AC UNIT	93	1.1.1	Swing on/off
		6	1.1.8	
2/1/0	STATUS ON/OFF AC UNIT	80	1.1.1	Status on/off ac unit
		1	1.1.8	
2/1/1	STATUS MODE AC UNIT	86	1.1.1	Status mode ac unit
		19	1.1.8	
2/1/2	STATUS SETPOINT AC UNIT	83	1.1.1	Status setpoint temperature
		2	1.1.8	
2/1/3	STATUS FAN SPEED AC UNIT	89	1.1.1	Status fan speed
		5	1.1.8	
2/1/4	STATUS SWING AC UNIT	92	1.1.1	Status swing
		7	1.1.8	

3.8 ENERGY METER WITH KES

To show the power consumption of three single-phase channels, using KES, it should be configured as shown in the following image:

Device: 1.1.5 KES

<<GENERAL>>

-CHANNEL A

Active Energy

Active Power

-CHANNEL B

Active Energy

Active Power

-CHANNEL C

Active Energy

Active Power

AC Power Supply Voltage [V]
230

Frequency [Hz]
50

Power Factor [%]
100

Carbon Dioxide Ratio
[x0.01 kgCO2/kWh]
50

Tariffs

Tariff 1 Initial Value
[x0.01 local currency/kWh]
13

Tariff 2 Initial Value
[x0.01 local currency/kWh]
0

Tariff 3 Initial Value
[x0.01 local currency/kWh]
0

Tariff 4 Initial Value
[x0.01 local currency/kWh]
0

Date and Time request on BUS voltage recovery:

Initial Delay [x1 sec]
10

Cyclical Sendings

SECURITY Sending of last Daily values:

Cycle Time
[x1 hour (0 = Disabled)]
0

SECURITY Sending of last Weekly values:

Cycle Time
[x1 day (0 = Disabled)]
0

SECURITY Sending of last Monthly values:

Cycle Time
[x1 day (0 = Disabled)]
0

Sending of Daily, Weekly and Monthly
Peak Power values:

Cycle Time
[x1 hour (0 = Disabled)]
0

Reset after Request?
No

Channels

Channel A
Yes

Channel B
Yes

Channel C
Yes

Logical Functions
No

<<GENERAL>>	
-CHANNEL A	Active Energy <input type="text" value="Yes"/>
Active Energy	
Active Power	
-CHANNEL B	Active Energy <input type="text" value="Yes"/>
Active Energy	
Active Power	
-CHANNEL C	Active Energy <input type="text" value="No"/>
Active Energy	
Active Power	

<<GENERAL>>	
-CHANNEL A	Estimated Values
Active Energy	Estimated Energy Consumption [kWh]
Active Power	Minimum Time between Sendings [x1 sec] <input type="text" value="5"/>
-CHANNEL B	NOTE: Minimum Time between Sendings limits Cycle Time.
Active Energy	Cyclical Sending: Cycle Time [x1 sec (0 = Disabled)] <input type="text" value="0"/>
Active Power	Send on Value Change [x +/-1 kWh (0 = Disabled)] <input type="text" value="0"/>
-CHANNEL C	Estimated Cost [x0.01 local currency]
Active Energy	Minimum Time between Sendings [x1 sec] <input type="text" value="5"/>
Active Power	NOTE: Minimum Time between Sendings limits Cycle Time.
	Cyclical Sending: Cycle Time [x1 sec (0 = Disabled)] <input type="text" value="0"/>
	Send on Value Change [x +/-0.01 loc. curr. (0 = Disabled)] <input type="text" value="0"/>

<<GENERAL>>	
-CHANNEL A	Instantaneous Power [kW]
Active Energy	Minimum Time between Sendings [x1 sec] <input type="text" value="5"/>
Active Power	NOTE: Minimum Time between Sendings limits Cycle Time.
-CHANNEL B	Cyclical Sending: Cycle Time [x1 sec (0 = Disabled)] <input type="text" value="0"/>
Active Energy	Send on Value Change [x +/-10 W (0 = Disabled)] <input type="text" value="0"/>
Active Power	Peak Power Values
-CHANNEL C	Hourly Peak Power [kW]
Active Energy	Minimum Time between Sendings [x1 sec] <input type="text" value="10"/>
Active Power	NOTE: Minimum Time between Sendings limits Cycle Time.
	Cyclical Sending: Cycle Time [x1 sec (0 = Disabled)] <input type="text" value="0"/>
	Send on Value Change [x +10 W (0 = Disabled)] <input type="text" value="0"/>
	Send Daily Peak Power? [kW] <input type="text" value="No"/>
	Send Weekly Peak Power? [kW] <input type="text" value="No"/>
	Send Monthly Peak Power? [kW] <input type="text" value="No"/>

When monitoring the power consumption of one channel, first of all, the channel should be enabled in the Main Configuration>Energy Monitor Objects tab. Thus, the corresponding Energy Monitor objects will appear in ETS for that channel.

To show the instant power indicator and graphs for that channel, the Box 1 of Page 5 should be enabled as Energy Monitor (KES) indicator. The Energy Monitor Channel that we previously enabled in the Main Configuration>Energy Monitor Objects tab, should be selected (for example, Channel 1), as well as other parameters shown below:

Device: 1.1.1 InZennio Z41

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PROFILE PAGE

CONFIG PAGE

Label: KW TOTAL

Visualization: Other

Function: Energy Monitor (KES)

Energy Monitor Channel: Channel 1

Enable the selected channel in "Main Config./Energy Monitor Objects" tab

Energy Consumption: ☒

CO2: ☒

Cost: ☒

Currency Symbol: €

MAIN CONFIGURATION

General

Security

Touch Lock

Internal Temp. Sensor

Energy Monitor Objects

White Channel Objects

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Channel 1: ☒

Channel 2: ☒

Channel 3: ☒

Channel 4: ☐

Channel 5: ☐

Channel 6: ☐

The table below shows the group addresses that should be created and the communication objects of KES and InZennio Z41 that should be associated to each group address:

I.Add.	Name	Object	Device	Description
4/0/0	KES - Channel A - Instant power	206	1.1.1	Instant power
		96	1.1.5	
4/0/1	KES - Channel A - Total kwh	207	1.1.1	Total kwh
		87	1.1.5	
4/0/2	KES - Channel A - Total cost	209	1.1.1	Total cost
		90	1.1.5	

4/0/3	KES - Channel A - Total CO2	208	1.1.1	Total CO2
		93	1.1.5	
4/0/4	KES - Channel A - Reset	106	1.1.1	Put total values to 0
		4	1.1.5	
4/0/5	KES - Channel A - Request	105	1.1.1	Request total values
		7	1.1.5	
4/0/6	KES - Channel B - Instant power	210	1.1.1	Instant power
		97	1.1.5	
4/0/7	KES - Channel B - Total kwh	211	1.1.1	Total kwh
		88	1.1.5	
4/0/8	KES - Channel B - Total cost	213	1.1.1	Total cost
		91	1.1.5	
4/0/9	KES - Channel B - Total CO2	212	1.1.1	Total CO2
		94	1.1.5	
4/0/10	KES - Channel B - Reset	109	1.1.1	Put total values to 0
		5	1.1.5	
4/0/11	KES - Channel B - Request	108	1.1.1	Request total values
		8	1.1.5	
4/0/12	KES - Channel C - Instant power	214	1.1.1	Instant power
		98	1.1.5	
4/0/13	KES - Channel C - Total kwh	215	1.1.1	Total kwh
		89	1.1.5	
4/0/14	KES - Channel C - Total cost	217	1.1.1	Total cost
		92	1.1.5	
4/0/15	KES - Channel C - Total CO2	216	1.1.1	Total CO2
		95	1.1.5	
4/0/16	KES - Channel C - Reset	112	1.1.1	Put total values to 0
		6	1.1.5	
4/0/17	KES - Channel C - Request	111	1.1.1	Request total values
		9	1.1.5	

3.9 NUMERICAL INDICATORS GRAPHS

To measure the outdoor temperature, a temperature probe is connected to input 1 of a QUAD. The parameters in QUAD should be:

The outdoor temperature value will be shown in Box 4, Page 5 of InZennio Z41. If the user presses in the middle of this button, a graph with the outdoor temperature values will appear in a pop-up. The configuration of Z41 should be:

The table below shows the group addresses that should be created and the communication objects of QUAD and InZennio Z41 that should be associated to each group address:

I.Add.	Name	Object	Device	Description
2/2/0	Outdoor Temperature	113	1.1.1	Value of temperature probe
		88	1.1.4	

3.10 OTHER INDICATORS

To display the window and door status, there window and door contacts are connected to inputs 3 and 4 of QUAD respectively. These inputs should be configured as a switch / sensor in QUAD:

Device: 1.1.4 Quad

GENERAL

INPUT 1 (Temp. Sensor)

INPUT 2 (Switch/Sensor)

INPUT 3 (Switch/Sensor)

INPUT 4 (Switch/Sensor)

<<THERMOSTATS>>

INPUT TYPE: Standard

RISING EDGE: 1

FALLING EDGE: 0

Sending of "0" DELAY: [x 0.1 sec.] 0

Sending of "1" DELAY: [x 0.1 sec.] 0

PERIODICAL SENDING OF "0" [x 1 sec.] (0=No cyclical sending) 0

PERIODICAL SENDING OF "1" [x 1 sec.] (0=No cyclical sending) 0

LOCK: No

Sending Status (0 and 1) on BUS voltage recovery: No

To display the window and door status in the InZennio Z41, the boxes 5 and 6 in Page 5 are configured as follows:

Device: 1.1.1 InZennio Z41

MAIN CONFIGURATION

MENU

PAGE 1

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PAGE 3

PAGE 4

PAGE 5

Configuration

Box 1

Box 2

Box 3

Box 4

Box 5

Box 6

PAGE 6

PROFILE PAGE

CONFIG PAGE

Label: WINDOW

Visualization: Indicator

Function: Binary Indicator (icon)

Off Icon: Window Closed

On Icon: Window Opened

The table below shows the group addresses that should be created and the communication objects of QUAD and InZennio Z41 that should be associated to each group address:

I.Add.	Name	Object	Device	Description
3/1/0	Magnetic contact window	116	1.1.1	Window status
		214	1.1.4	
3/1/1	Magnetic contact door	119	1.1.1	Door status
		215	1.1.4	

3.11 ALARMS

In order to trigger a flood alarm, a flood sensor is connected to input 2 of QUAD, which should be configured as switch / sensor as follows:

Device: 1.1.4 Quad

GENERAL

INPUT 1 (Temp. Sensor)

INPUT 2 (Switch/Sensor)

INPUT 3 (Switch/Sensor)

INPUT 4 (Switch/Sensor)

< THERMOSTATS >

INPUT TYPE: Standard

RISING EDGE: 1

FALLING EDGE: 0

Sending of "0" DELAY: [x 0.1 sec.] 0

Sending of "1" DELAY: [x 0.1 sec.] 0

PERIODICAL SENDING OF "0" [x 1 sec.] (0=No cyclical sending) 0

PERIODICAL SENDING OF "1" [x 1 sec.] (0=No cyclical sending) 0

LOCK: No

Sending Status (0 and 1) on BUS voltage recovery: No

The Box 1 in Page 3 of InZennio Z41 will be configured as Alarm, which informs when flooding occurs with an acoustic and blinking signal. The configuration of this Alarm indicator should be as follows:

Device: 1.1.1 InZennio Z41

MAIN CONFIGURATION

MENU

PAGE 1

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Configuration

Box 1

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PROFILE PAGE

CONFIG PAGE

Label: FLOOD ALARM

Visualization: Other

Function: Alarm

Trigger: 1

Periodic Monitoring: No

The table below shows the group addresses that should be created and the communication objects of QUAD and InZennio Z41 that should be associated to each group address:

I.Add.	Name	Object	Device	Description
3/0/0	Alarm - Flood - Sensor	56	1.1.1	Status flood alarm
		213	1.1.4	
3/0/1	Alarm - Flood - Confirmation	57	1.1.1	Signal to confirm alarm

3.12 WEEKLY AND DAILY TIMERS

The weekly and daily timers will be used to switch on and off the AC unit in this example. There are two Timers configured in InZennio Z41: a daily timer in Box 1 of Page 6 and a weekly timer in Box 2 of Page 6. There is also a Button to Enable/Disable these timers. The following configuration should be set in InZennio Z41:

The following configuration should be set in InZennio Z41:

Configuration	Label	Visualization	Function	Timer Type
Device: 1.1.1 InZennio Z41 MAIN CONFIGURATION MENU PAGE 1 PAGE 2 PAGE 3 PAGE 4 PAGE 5 PAGE 6 Configuration Box 1 Box 2 Box 3 PROFILE PAGE CONFIG PAGE	DAILY	Other	Daily Timer	1-bit Value
MAIN CONFIGURATION MENU PAGE 1 PAGE 2 PAGE 3 PAGE 4 PAGE 5 PAGE 6 Configuration Box 1 Box 2 Box 3 PROFILE PAGE CONFIG PAGE	WEEKLY	Other	Weekly Timer	1-bit Value
MAIN CONFIGURATION MENU PAGE 1 PAGE 2 PAGE 3 PAGE 4 PAGE 5 PAGE 6 Configuration Box 1 Box 2 Box 3 PROFILE PAGE CONFIG PAGE	TIMERS ENABLE	2-button Control	Binary Control (text)	Left 0, Right 1
	Off Text	NO		
	On Text	YES		
	Left Button	Clock Off 1		
	Right Button	Clock On 1		

The table below shows the group addresses that should be created and the communication objects of IRSC Plus and InZennio Z41 that should be associated to each group address:

I.Add.	Name	Object	Device	Description
2/0/0	CONTROL ON/OFF AC UNIT	129	1.1.1	Output object for daily timer
2/0/0	CONTROL ON/OFF AC UNIT	132	1.1.1	Output object for weekly timer
2/0/5	ENABLE/DISABLE TIMERS AC UNIT	128	1.1.1	Enable or disable timers
		131	1.1.1	
		134	1.1.1	
		135	1.1.1	