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## KNX-DMX GATEWAY

### Product Manual



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## **1.) PRODUCT DESCRIPTION**

ITR831-0001 KNX DMX Gateway module supports two-way control, also can record, play and delete DMX programs. Database uploads to the product are done with most current ETS versions. The device is manufactured in accordance with electromagnetic compatibility (EMC), electrical safety and environmental conditions. With recording time up to 4 hours, ITR831-0001 KNX DMX Gateway can be widely used to control devices with built-in DMX protocol port for LED color control, such as computer light, moving head light, laser light etc.

## 1.1.) TECHNICAL INFORMATION

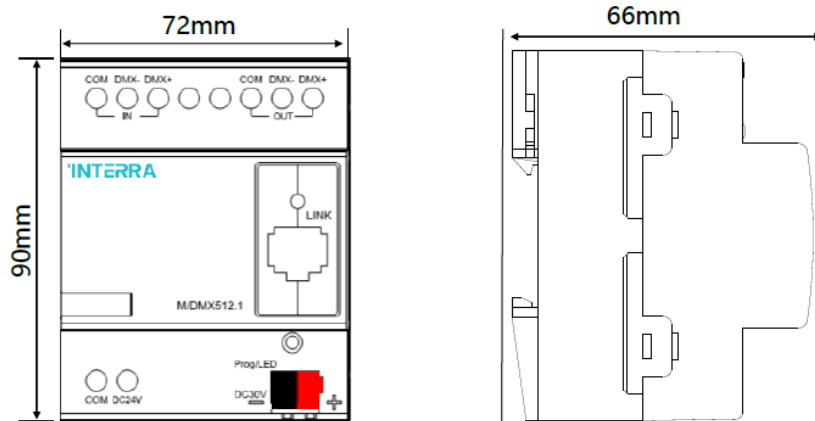
<b>Product Code</b>	<b>ITR831-0001</b>
<b>Power Supply</b>	EIB Power Supply
<b>Current Consumption</b>	5 mA (static) 15 mA (dynamic)
<b>Inputs</b>	2x Dry Contact Inputs
<b>AUX Power Supply</b>	40 mA/DC 24 V
<b>Maximum Air Humidity</b>	<90 RH
<b>Temperature Range</b>	Operation (– 5°C ...45 °C) Storage (– 20°C ...60 °C)
<b>Flammability</b>	Non-flammable Product
<b>Type of Protection</b>	IP 20
<b>Dimensions</b>	72 x 90 x 66 mm (HxWxD)
<b>Color</b>	Light Grey and White
<b>Configuration</b>	Configuration with ETS
<b>Certificaton</b>	KNX Certified

## 1.2.) PRODUCT FUNCTIONS

- Built-in LUX sensor, microwave sensor, temperature sensor, dry contact, external telegram.
- The multi-function motion sensor have 5 logic function blocks and can be set the logical relation AND/OR, Each with 10 output objects. The work mode include single mode and Master & Slave mode.
- The multi-function motion sensor can report movement status, Lux status to KNX system.
- The multi-function motion sensor supports constant brightness output.
- It can controls for Switch control, Absolute dimming control, Shutter control, Alarm control, Percentage control, Sequence control, Scene control, String (14 bytes) control, Threshold control, Logic combination control.
- With function of constant brightness: keep the Lux in the constant value, will dim the lights to the corresponding intensity according to the surrounding brightness.
- The logic validity can be set by external telegram, enable end user to enable or disable the preset logics.



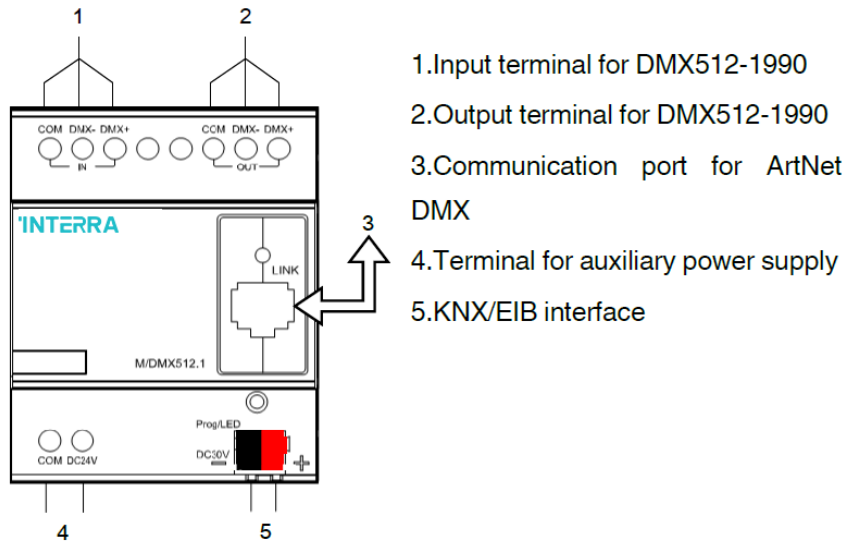
### 1.3.) PRODUCT DIMENSIONS



**Fig 1 : Front and Side Appearances and Measures of the Device.**

The numerical values showing the dimensions above are in mm.

### 1.4.) CONNECTION DIAGRAM AND PROGRAMMING



**Fig 2 : KNX Connector, Programming LED and Button.**

Connection to the device is via the KNX connector and dry contacts. Once the connections have been made correctly, the device can now be programmed. The programming button is pressed first, then the programming LED is illuminated after pressing. In this way, the ETS configuration can be loaded to the device.

## 2.) MOUNTING

ITR831-0001 KNX During DMX Gateway installation; The load cables and the KNX / EIB cables must be labeled and completely isolated from each other. The device must be installed on a DIN rail in the distribution board and cables must be connected for loads. After making sure that there is no short or open circuit, check that the KNX cable type is correct and not short-circuited. For the DMX interface, the device needs an extra 24 V DC supply and if this is to be used, the power supply connections must be made correctly. After this process, the KNX cables must be connected with the correct color and all cables must be properly re-assembled. After the processes are finished, ensure that the KNX line is isolated from the AC line and other loads.

## 3. ETS PARAMETERS AND DESCRIPTIONS

### 3.1. GENERAL PARAMETER PAGE

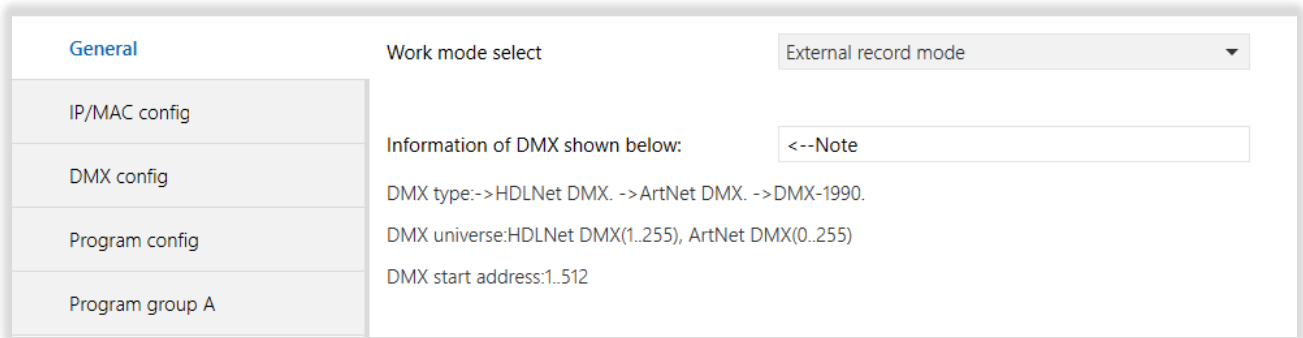


Fig 3 : General Parameter Configuration Page

#### 3.1.1. Parameters List

PARAMETERS	DESCRIPTION	VALUES
Work mode select	This parameter, is used for set the work mode.	External record mode DMX dimming (EIB to DMX) DMX to EIB

### 3.2. EXTERNAL RECORD MODE

If the work mode is selected as External record mode, different configurations should be made from parameter pages. When external record mode is selected, IP/MAC config, DMX config, Program config and Program group parameters should be set.

### 3.2.1. IP / MAC Config

General	IP address:	
IP/MAC config	Byte1	192
DMX config	Byte2	168
Program config	Byte3	10
Program group A	Byte4	2
	Net MAC:	
	Byte1	72
	Byte2	68
	Byte3	76
	Byte4	66
	Byte5	88
	Byte6	99

Fig 4 : IP / MAC Config Parameter Page (external record mode)

### 3.2.2. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>IP address :</b>		
<b>Byte 1</b>	This parameter, is used to set the IP address's first digit. (e.g. 192.168.1.4 ->> 192 is the first digit.)	0... <b>192</b> ...255
<b>Byte 2</b>	This parameter, is used to set the IP address's second digit. (e.g. 192.168.1.4 ->> 168 is the second digit.)	0... <b>168</b> ...255
<b>Byte 3</b>	This parameter, is used to set the IP address's third digit. (e.g. 192.168.1.4 ->> 1 is the third digit.)	0... <b>10</b> ...255
<b>Byte 4</b>	This parameter, is used to set the IP address's fourth digit. (e.g. 192.168.1.4 ->> 4 is the fourth digit.)	0... <b>2</b> ...255
<b>Net MAC :</b>		
<b>Byte 1</b>	Bu parametre, Net MAC adresinin ilk hanesi için kullanılır. Varsayılan değer değiştirilemez.	<b>72</b>
<b>Byte 2</b>	Bu parametre, Net MAC adresinin ikinci hanesi için kullanılır. Varsayılan değer değiştirilemez.	<b>68</b>
<b>Byte 3</b>	Bu parametre, Net MAC adresinin üçüncü hanesi için kullanılır. Varsayılan değer değiştirilemez.	<b>76</b>
<b>Byte 4</b>	Bu parametre, Net MAC adresinin dördüncü hanesini ayarlamak için kullanılır.	0... <b>66</b> ...255
<b>Byte 5</b>	Bu parametre, Net MAC adresinin beşinci hanesini ayarlamak için kullanılır.	0... <b>88</b> ...255
<b>Byte 6</b>	Bu parametre, Net MAC adresinin altıncı hanesini ayarlamak için kullanılır.	0... <b>99</b> ...255

3.2.3. DMX Config

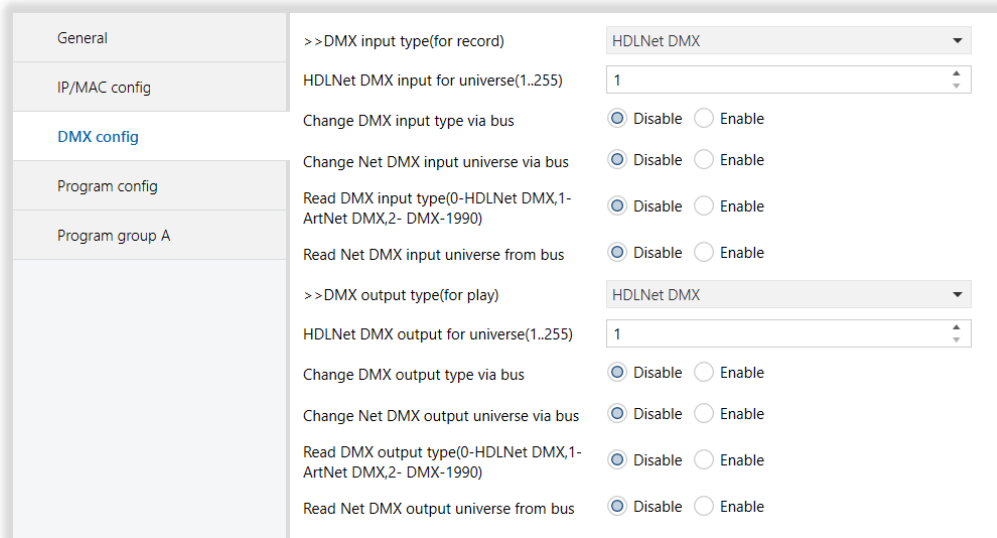


Fig 5 : DMX Config Parameter Page (external record mode)

3.2.4. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>&gt;&gt; DMX input type(for record)</b>	This parameter, is used to set the DMX input's communication modes. <b>HDLNet DMX</b> : This is belong to HDL protocol. <b>ArtNet DMX</b> : Ethernet protocol based on the TCP/IP protocol suite. <b>DMX-1990</b> : Standard DMX512 protocol.	<b>HDLNet DMX</b> ArtNet DMX DMX-1990
<b>HDLNet DMX input for universe (1...255)</b>	This parameter, is used to set the NO. for input universe.	1...255
<b>ArtNet DMX input for universe (1...255)</b>	This parameter, is used to set the NO. for input universe.	1...255
<b>Change DMX input type via bus</b>	This parameter, is used to enable or disable the change DMX input type via bus. <b>Enable</b> : Other devices on the bus can send telegram to change the DMX input type. <b>Disable</b> : DMX input type can not be changed by other devices.	<b>Disable</b> Enable
<b>Change NetDMX input universe via bus</b>	This parameter, is used to enable or disable the change NetDMX input universe via bus. <b>Enable</b> : Other devices on the bus can send telegram to change the DMX input universe. <b>Disable</b> : DMX input universe can not be changed by other devices.	<b>Disable</b> Enable

<b>Read DMX input type(0-HDLNet DMX, 1-ArtNet DMX, 2-DMX-1990)</b>	This parameter, is used to enable or disable the read DMX input type. <b>Enable</b> : DMX input type can be read by other device. <b>Disable</b> : DMX input type can not be read by other device.	<b>Disable</b> Enable
<b>Read Net DMX input universe from bus</b>	This parameter, is used to enable or disable the read Net DMX input universe from bus. <b>Enable</b> : DMX input universe can be read by other device. <b>Disable</b> : DMX input universe can not be read by other device.	<b>Disable</b> Enable
<b>&gt;&gt; DMX Output type (for play)</b>	The settings are same as DMX Input type.	The settings are same as DMX Input type..

### 3.2.5. Program Config

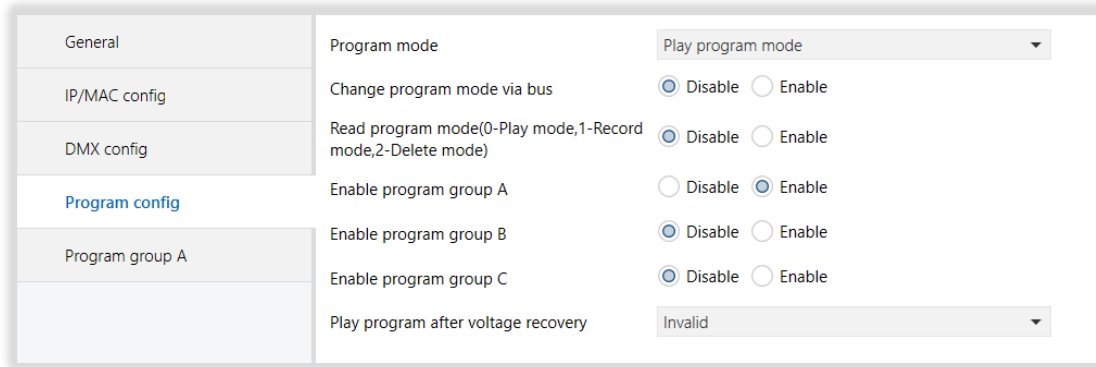


Fig 6 : Program Config Parameter Page (external record mode)

### 3.2.6. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>Program mode</b>	This parameter, is used to set the program mode of the DMX reader.	<b>Play program mode</b> Record program mode Delete program mode
<b>Change program mode via bus</b>	This parameter, is used to enable or disable the change program mode via bus. <b>Enable</b> : Other devices on the bus can send telegram to change the program mode of the module. <b>Disable</b> : The program mode of the module can not be changed by other devices.	<b>Disable</b> Enable
<b>Read program mode (0-Play mode, 1-Record mode, 2-Delete mode)</b>	This parameter, is used to enable or disable the read program mode.	<b>Disable</b>

	<p><b>Enable</b> : Other devices on the bus can send telegram to read the program mode of the module. Telegram 0 is that the mode is play mode, telegram 1 that the mode is record mode, telegram 2 that the mode is delete mode.</p> <p><b>Disable</b> : The program mode of the module can not be read by other devices.</p>	Enable
<b>Enable program group A</b>	<p>This parameter, is used to enable or disable the program group A.</p> <p><b>Enable</b> : Program group A parameters can be set.</p> <p><b>Disable</b> : Program group A parameters can not be set.</p>	<p><b>Disable</b></p> <p>Enable</p>
<b>Play program after voltage recovery</b>	This parameter, is used to set the program after voltage recovery.	<p><b>Disable</b></p> <p>Enable</p>
<b>Recovery to defined program NO.</b>	This parameter, is used to set the defined playing program after voltage recovery.	<p><b>Program No.1...</b></p> <p>...Program No.50</p>

### 3.2.7. Program Group A

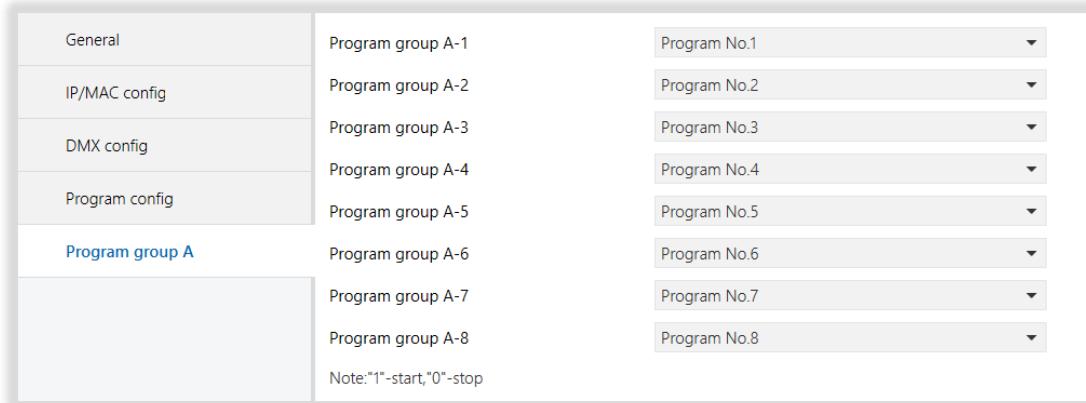


Fig 7 : Program Group A Parameter Page (external record mode)

### 3.2.8. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>Program group A-1</b>	This parameter, is used to set the program group A-1. For each group can be set one program from 50 different program numbers.	Invalid <b>Program No.1...</b> ...Program No.50
<b>Program group A-2</b>	This parameter, is used to set the program group A-2. For each group can be set one program from 50 different program numbers.	Invalid Program <b>No.1...Program No.2...</b> Program No.50

<b>Program group A-3</b>	This parameter, is used to set the program group A-3. For each group can be set one program from 50 different program numbers.	Invalid Program No.1... <b>Program No.3</b> ...Program No.50
<b>Program group A-4</b>	This parameter, is used to set the program group A-4. For each group can be set one program from 50 different program numbers.	Invalid Program No.1... <b>Program No.4</b> ...Program No.50
<b>Program group A-5</b>	This parameter, is used to set the program group A-5. For each group can be set one program from 50 different program numbers.	Invalid Program No.1... <b>Program No.5</b> ...Program No.50
<b>Program group A-6</b>	This parameter, is used to set the program group A-6. For each group can be set one program from 50 different program numbers.	Invalid Program No.1... <b>Program No.6</b> ...Program No.50
<b>Program group A-7</b>	This parameter, is used to set the program group A-7. For each group can be set one program from 50 different program numbers.	Invalid Program No.1... <b>Program No.7</b> ...Program No.50
<b>Program group A-8</b>	This parameter, is used to set the program group A-8. For each group can be set one program from 50 different program numbers.	Invalid Program No.1... <b>Program No.8</b> ...Program No.50

### 3.3. DMX DIMMING (EIB TO DMX)

If the work mode is selected as DMX dimming (EIB to DMX) mode, different configurations should be made from parameter pages. When DMX dimming is selected, IP/MAC config, DMX config, Channel config, Scene config and Sequence config parameters should be set.

### 3.3.1. IP / MAC Config

Fig 8 : IP / MAC Config Parameter Page (DMX Dimming (EIB to DMX))

### 3.3.2. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>IP address :</b>		
<b>Byte 1</b>	This parameter, is used to set the IP address's first digit. (e.g. 192.168.1.4 ->> 192 is the first digit.)	0... <b>192</b> ...255
<b>Byte 2</b>	This parameter, is used to set the IP address's second digit. (e.g. 192.168.1.4 ->> 168 is the second digit.)	0... <b>168</b> ...255
<b>Byte 3</b>	This parameter, is used to set the IP address's third digit. (e.g. 192.168.1.4 ->> 1 is the third digit.)	0... <b>10</b> ...255
<b>Byte 4</b>	This parameter, is used to set the IP address's fourth digit. (e.g. 192.168.1.4 ->> 4 is the fourth digit.)	0... <b>2</b> ...255
<b>Net MAC :</b>		
<b>Byte 1</b>	This parameter, is used for Net MAC address first digit. Default value can not be changed.	<b>72</b>
<b>Byte 2</b>	This parameter, is used for Net MAC address second digit. Default value can not be changed.	<b>68</b>
<b>Byte 3</b>	This parameter, is used for Net MAC address third digit. Default value can not be changed.	<b>76</b>



<b>Byte 4</b>	This parameter, is used to set the Net MAC address's fourth digit.	0... <b>66</b> ...255
<b>Byte 5</b>	This parameter, is used to set the Net MAC address's fifth digit.	0... <b>88</b> ...255
<b>Byte 6</b>	This parameter, is used to set the Net MAC address's sixth digit.	0... <b>99</b> ...255

3.3.3. DMX Config

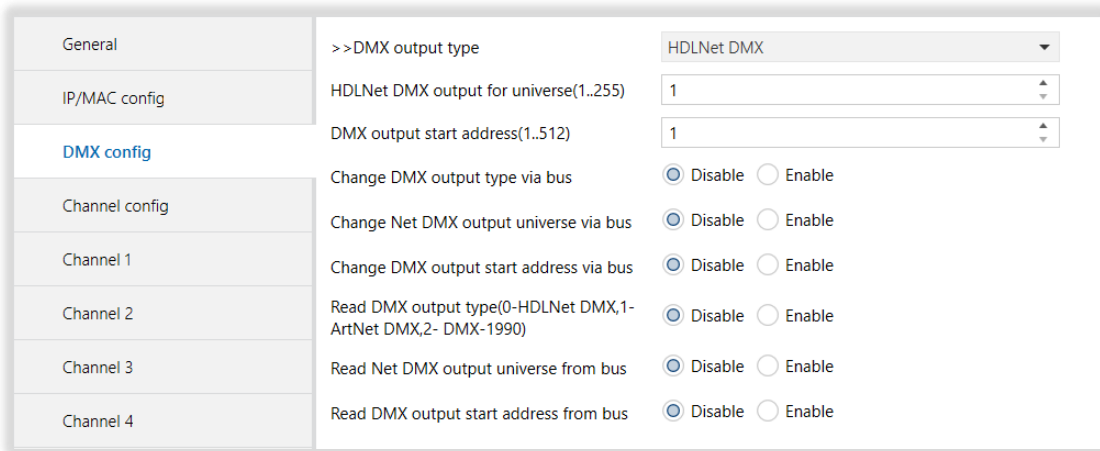


Fig 9 : DMX Config Parameter Page (DMX Dimming (EIB to DMX))

3.3.4. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>&gt;&gt; DMX output type</b>	This parameter, is used to set the DMX output's communication modes. <b>HDLNet DMX</b> : This is belong to HDL protocol. <b>ArtNet DMX</b> : Ethernet protocol based on the TCP/IP protocol suite. <b>DMX-1990</b> : Standard DMX512 protocol.	<b>HDLNet DMX</b> ArtNet DMX DMX-1990
<b>HDLNet DMX output for universe (1...255)</b>	This parameter, is used to set the NO. for HDLNet DMX output universe.	1...255
<b>ArtNet DMX input for universe (1...255)</b>	This parameter, is used to set the NO. for ArtNet DMX output universe.	1...255
<b>DMX output start address(1...512)</b>	This parameter, is used to set the start address of DMX output.	1...512
<b>Change DMX output type via bus</b>	This parameter, is used to enable or disable the change DMX output type via bus.	<b>Disable</b> Enable

	<p><b>Enable</b> : Other devices on the bus can send telegram to change the DMX output type.</p> <p><b>Disable</b> : DMX output type can not be changed by other devices.</p>	
<b>Change NetDMX output universe via bus</b>	<p>This parameter, is used to enable or disable the change NetDMX output universe via bus.</p> <p><b>Enable</b> : Other devices on the bus can send telegram to change the DMX output universe.</p> <p><b>Disable</b> : DMX output start address can not be changed by other devices.</p>	<b>Disable</b> Enable
<b>Change DMX output start address via bus</b>	<p>This parameter, is used to enable or disable the change DMX output start address via bus.</p> <p><b>Enable</b> : Other devices on the bus can send telegram to change the DMX output start address.</p> <p><b>Disable</b> : DMX output address can not be changed by other devices.</p>	<b>Disable</b> Enable
<b>Read DMX output type(0-HDLNet DMX, 1-ArtNet DMX, 2-DMX-1990)</b>	<p>This parameter, is used to enable or disable the read DMX output type.</p> <p><b>Enable</b> : DMX output type can be read by other device.</p> <p><b>Disable</b> : DMX output type can not be read by other device.</p>	<b>Disable</b> Enable
<b>Read Net DMX output universe from bus</b>	<p>This parameter, is used to enable or disable the read Net DMX output universe from bus.</p> <p><b>Enable</b> : DMX output universe can be read by other device.</p> <p><b>Disable</b> : DMX output universe can not be read by other device.</p>	<b>Disable</b> Enable
<b>Read Net DMX output start address from bus</b>	<p>This parameter, is used to enable or disable the read Net DMX output start address from bus.</p> <p><b>Enable</b> : DMX output start address can be read by other device.</p> <p><b>Disable</b> : DMX output start address can not be read by other device.</p>	<b>Disable</b> Enable

3.3.5. Channel Config

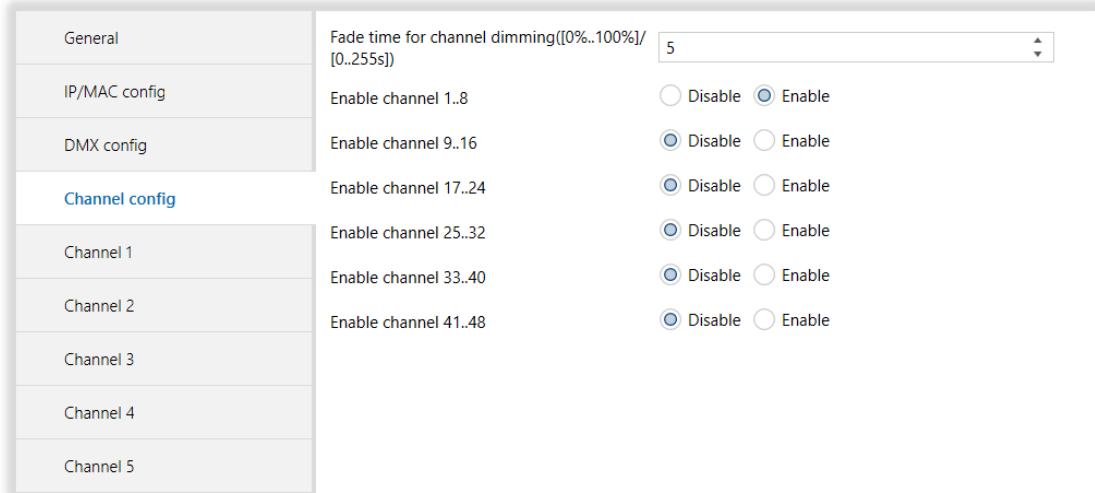


Fig 10 : Channel Config Parameter Page (DMX Dimming (EIB to DMX))

3.3.6. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>Fade time for channel dimming ([0%...100%] / [0...255s])</b>	This parameter, is used to set the DMX output's communication modes.	0...5...255
<b>Enable channel 1..8</b>	This parameter, is used to set the enable of the channels 1 to 8, if the channel is set to enable, dimming can be made between 1 to 8 channels.	Disable <b>Enable</b>
<b>Enable channel 9..16</b>	This parameter, is used to set the enable of the channels 9 to 16, if the channel is set to enable, dimming can be made between 9 to 16 channels.	<b>Disable</b> Enable
<b>Enable channel 17..24</b>	This parameter, is used to set the enable of the channels 17 to 24, if the channel is set to enable, dimming can be made between 17 to 24 channels.	<b>Disable</b> Enable
<b>Enable channel 25..32</b>	This parameter, is used to set the enable of the channels 25 to 32, if the channel is set to enable, dimming can be made between 25 to 32 channels.	<b>Disable</b> Enable
<b>Enable channel 33..40</b>	This parameter, is used to set the enable of the channels 33 to 40, if the channel is set to enable, dimming can be made between 33 to 40 channels.	<b>Disable</b> Enable
<b>Enable channel 41..48</b>	This parameter, is used to set the enable of the channels 41 to 48, if the channel is set to enable, dimming can be made between 41 to 48 channels.	<b>Disable</b> Enable

3.3.7. Channel 1

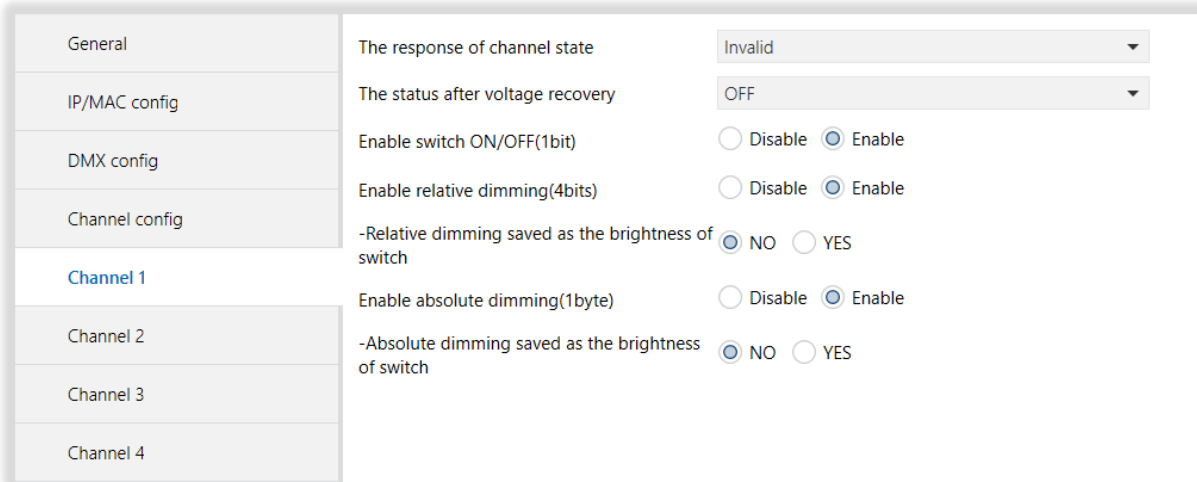


Fig 11 : Channel 1 Parameter Page (DMX Dimming (EIB to DMX))

3.3.8. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>The response of channel state</b>	<p>This parameter, is used to set the response of the channel state.</p> <p><b>1 bit always response</b> : It always response, if the channel is ON, then response 1. If the channel is OFF, then response 0.</p> <p><b>1 bit only changed</b> : It will be response when the dimmer state was changed.</p> <p><b>1 byte always response</b> : It always response of the light level value.</p> <p><b>1 byte only changed</b> : It will be response when the light value was changed.</p>	<p><b>Invalid</b></p> <p>1 bit always response</p> <p>1 bit only changed</p> <p>1 byte always response</p> <p>1 byte only changed</p>
<b>The status after voltage recovery</b>	<p>This parameter, is used to set the status after voltage recovery.</p> <p><b>OFF</b> : After power on and the channel's status is off.</p> <p><b>Defined brightness value</b> : After power on and the channel's status is defined brightness value.</p> <p><b>Last brightness value</b> : After power on and the channel's status is last brightness value.</p>	<p><b>OFF</b></p> <p>Defined brightness value</p> <p>Last brightness value</p>
<b>Enable switch ON / OFF (1 bit)</b>	<p>This parameter, is used to enable or disable the switch control.</p> <p><b>Enable</b> : The channel can be controlled by other devices with switch ON or switch OFF.</p> <p><b>Disable</b> : The channel can not be controlled by other devices.</p>	<p><b>Disable</b></p> <p>Enable</p>

<b>Enable relative dimming (4 bits)</b>	This parameter, is used to enable or disable the relative dimming. <b>Enable</b> : Allows to relative dimming. <b>Disable</b> : Not allow to relative dimming.	<b>Disable</b> Enable
<b>Relative dimming saved as the brightness of switch</b>	This parameter, is used to save the relative dimming brightness. <b>NO</b> : The light is not save the brightness. <b>YES</b> : The light will maintain this brightness the next time opened.	<b>NO</b> YES
<b>Enable absolute dimming</b>	This parameter, is used to enable or disable the absolute dimming. <b>Enable</b> : Allows to absolute dimming. <b>Disable</b> : Not allows to absolute dimming.	Disable <b>Enable</b>
<b>Absolute dimming saved as the brightness of switch</b>	This parameter, is used to save the absolute dimming brightness. <b>NO</b> : The light is not save the brightness. <b>YES</b> : The light will maintain this brightness the next time opened.	<b>NO</b> YES

### 3.3.9. Scene Config

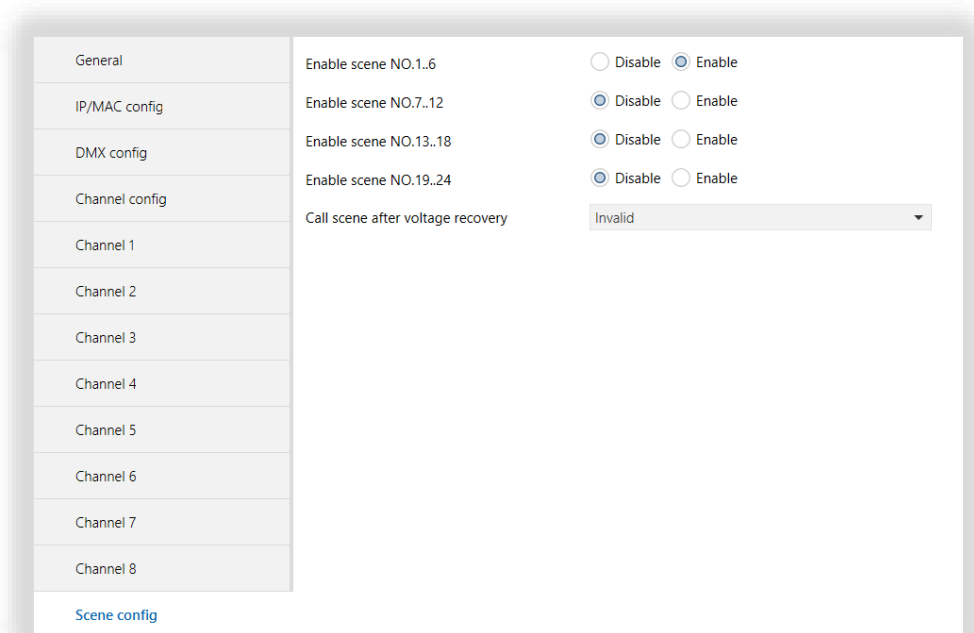


Fig 12 : Scene Config Parameter Page (DMX Dimming (EIB to DMX))

### 3.3.10. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>Enable scene NO.1..6</b>	This parameter, is used to enable or disable the scenes 1 to 6. <b>Enable</b> : Scenes(1 to 6) can be controlled. <b>Disable</b> : Scenes(1 to 6) can not be controlled.	Disable <b>Enable</b>
<b>Enable scene NO.7..12</b>	This parameter, is used to enable or disable the scenes 7 to 12. <b>Enable</b> : Scenes(7 to 12) can be controlled. <b>Disable</b> : Scenes(7 to 12) can not be controlled.	<b>Disable</b> Enable
<b>Enable scene NO.13..18</b>	This parameter, is used to enable or disable the scenes 13 to 18. <b>Enable</b> : Scenes(13 to 18) can be controlled. <b>Disable</b> : Scenes(13 to 18) can not be controlled.	<b>Disable</b> Enable
<b>Enable scene NO.19..24</b>	This parameter, is used to enable or disable the scenes 19 to 24. <b>Enable</b> : Scenes(19 to 24) can be controlled. <b>Disable</b> : Scenes(19 to 24) can not be controlled.	<b>Disable</b> Enable
<b>Call scene after voltage recovery</b>	This parameter, is used to call the scene after voltage recovery.	<b>Invalid</b> Defined scene Last scene
<b>Recovery to defined scene</b>	This parameter, is used to call the defined scene after voltage recovery.	<b>Scene NO.01..Scene NO.24</b>

### 3.3.11. Scene NO.1

General	Fade time for scene channel dimming ([0%..100%]/[0..255s])	3
IP/MAC config	Channel 1 brightness	Invalid
DMX config	Channel 2 brightness	Invalid
Channel config	Channel 3 brightness	Invalid
Channel 1	Channel 4 brightness	Invalid
Channel 2	Channel 5 brightness	Invalid
Channel 3	Channel 6 brightness	Invalid
Channel 4	Channel 7 brightness	Invalid
Channel 5	Channel 8 brightness	Invalid
Channel 6	Channel 9 brightness	Invalid
Channel 7	Channel 10 brightness	Invalid
Channel 8	Channel 11 brightness	Invalid
Scene config	Channel 12 brightness	Invalid
Scene NO.1	Channel 13 brightness	Invalid
Scene NO.2	Channel 14 brightness	Invalid
	Channel 15 brightness	Invalid
	Channel 16 brightness	Invalid
	Channel 17 brightness	Invalid

Fig 13 : Scene NO.1 Parameter Page (DMX Dimming (EIB to DMX))

### 3.3.12. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>Fade time for scene channel dimming ([0%...100%] / [0...255S])</b>	This parameter, is used to set the fade seconds in the brighter state for scene channel dimming.	0... <b>3</b> ...255
<b>Channel 1 brightness</b> ... <b>Channel 48 brightness</b>	This parameter, is used to set the channels' brightness. Brightness range is 0% to 100%.	<b>Invalid</b> 0%(0)...100%(255)

3.3.13. Sequence Config

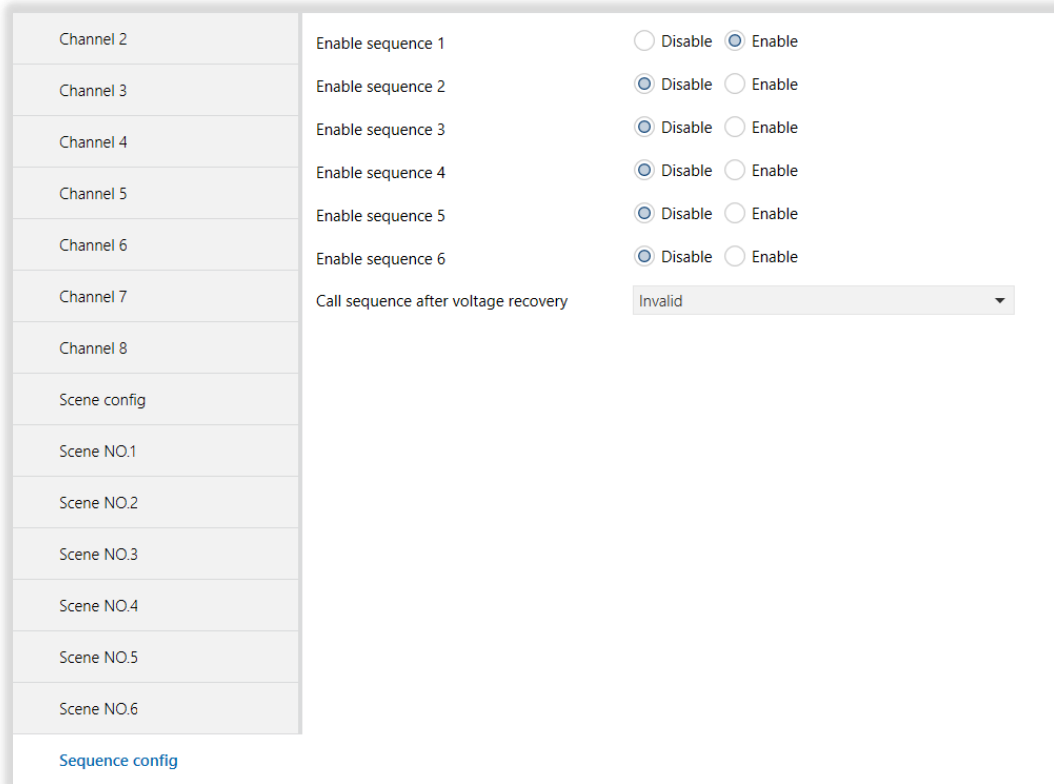


Fig 14 : Sequence Config Parameter Page (DMX Dimming (EIB to DMX))

3.3.14. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>Enable sequence 1</b>	This parameter, is used to enable or disable the sequence 1. <b>Enable</b> : Sequence 1 parameter can be set. <b>Disable</b> : Sequence 1 parameter can not be set.	Disable <b>Enable</b>
<b>Enable sequence 2</b>	This parameter, is used to enable or disable the sequence 2. <b>Enable</b> : Sequence 2 parameter can be set. <b>Disable</b> : Sequence 2 parameter can not be set.	<b>Disable</b> Enable
<b>Enable sequence 3</b>	This parameter, is used to enable or disable the sequence 3. <b>Enable</b> : Sequence 3 parameter can be set. <b>Disable</b> : Sequence 3 parameter can not be set.	<b>Disable</b> Enable
<b>Enable sequence 4</b>	This parameter, is used to enable or disable the sequence 4. <b>Enable</b> : Sequence 4 parameter can be set. <b>Disable</b> : Sequence 4 parameter can not be set.	<b>Disable</b> Enable



<b>Enable sequence 5</b>	This parameter, is used to enable or disable the sequence 5. <b>Enable</b> : Sequence 5 parameter can be set. <b>Disable</b> : Sequence 5 parameter can not be set.	<b>Disable</b> Enable
<b>Enable sequence 6</b>	This parameter, is used to enable or disable the sequence 6. <b>Enable</b> : Sequence 6 parameter can be set. <b>Disable</b> : Sequence 6 parameter can not be set.	<b>Disable</b> Enable
<b>Call sequence after voltage recovery</b>	This parameter, is used to set the which sequence should working after voltage recovery. <b>Invalid</b> : No working. <b>Defined sequence</b> : Desired sequence can be selected for working after voltage recovery. <b>Last sequence</b> : The last working sequence will work after voltage recovery.	<b>Invalid</b> Defined sequence Last sequence
<b>Recovery to defined sequence</b>	This parameter, is used to set the sequence that will work after voltage recovery.	<b>Sequence 1</b> ... Sequence 6

3.3.15. Sequence 1

Channel 3	Operaton mode of the sequence 1	Start with "1",Stop with "0"
Channel 4	Control mode of the sequence 1	FWD
Channel 5	Runing mode of the sequence 1	<input type="radio"/> Single <input checked="" type="radio"/> Cycle
Channel 6	Runing time(0..255 hours,0h&0m-unlimited)	0
Channel 7	Runing time(0..59 mins,0h&0m-unlimited)	0
Channel 8	Position after running time out	Invalid
Scene config	Total 24 steps,configuration as following:	
Scene NO.1	>>Step 1 configuration	Invalid
Scene NO.2	Time for step 1 (0..65535s)	5
Scene NO.3	Time for step 1 (0..999ms)	0
Scene NO.4	>>Step 2 configuration	Invalid
Scene NO.5	Time for step 2 (0..65535s)	5
Scene NO.6	Time for step 2 (0..999ms)	0
Sequence config	>>Step 3 configuration	Invalid
Sequence 1	Time for step 3 (0..65535s)	5
	Time for step 3 (0..999ms)	0
	>>Step 4 configuration	Invalid
	Time for step 4 (0..65535s)	5
	Time for step 4 (0..999ms)	0

Fig 15 : Sequence 1 Parameter Page (DMX Dimming (EIB to DMX))

3.3.16. Parameters List

PARAMETERS	DESCRIPTION	VALUES
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<p><b>Operation mode of the sequence 1</b></p>	<p>This parameter, is used to enable or disable the sequence 1.</p> <p><b>Start with “1”, Stop with “0”</b> : When receives 1, then run sequence 1, when receives 0, then stop sequence 1.</p> <p><b>Start with “0”, Stop with “1”</b> : When receives 0, then run sequence 1, when receives 1, then stop sequence 1.</p> <p><b>Start with “1/0”, can’t stop</b> : Both receive 1 or 0, start the sequence 1.</p>	<p>Start with “1”, Stop with “0”</p> <p>Start with “0”, Stop with “1”</p> <p>Start with “1/0”, can’t stop</p>
<p><b>Control mode of the sequence 1</b></p>	<p>This parameter, is used to set the control mode.</p> <p><b>FWD</b> : Forward mode.</p> <p><b>REW</b> : Back work mode.</p> <p><b>RANDOM</b> : Random mode.</p>	<p><b>FWD</b></p> <p><b>REW</b></p> <p><b>RANDOM</b></p>
<p><b>Running mode of the sequence 1</b></p>	<p>This parameter, is used to set the running mode.</p> <p><b>Single</b> : Run only once.</p> <p><b>Cycle</b> : Cycle run.</p>	<p>Single</p> <p><b>Cycle</b></p>
<p><b>Running time (0...255 hours, 0h&amp;0m-unlimited)</b></p>	<p>This parameter, is used to set the sequence running time in hours.</p> <p>Note : Unlimited when the time set to 0h&amp;0m.</p>	<p>0...255</p>
<p><b>Running time (0...59mins, 0h&amp;0m-unlimited)</b></p>	<p>This parameter, is used to set the sequence running time in minutes.</p> <p>Note : Unlimited when the time set to 0h&amp;0m.</p>	<p>0...59</p>
<p><b>Position after running time out</b></p>	<p>This parameter, is used to set the sequence to the desired position if the sequence running in Cycle mode and run time is greater than zero.</p>	<p><b>Invalid</b></p> <p>Scene NO.01...Scene NO.24</p>
<p><b>&gt;&gt;Step 1 configuration</b> ... <b>&gt;&gt;Step 24 configuration</b></p>	<p>This parameter, is used to set the sequence step configurations.</p>	<p><b>Invalid</b></p> <p>Scene NO.01...Scene NO.24</p>
<p><b>Time for step 1 (0...65535s)</b> ... <b>Time for step 24 (0...65535s)</b></p>	<p>This parameter, is used to set the time for step in seconds.</p>	<p>0...5...65535s</p>
<p><b>Time for step 1 (0...999ms)</b> ... <b>Time for step 24 (0...999ms)</b></p>	<p>This parameter, is used to set the time for step in milliseconds.</p>	<p>0...999ms</p>

3.4. DMX TO EIB

If the work mode is selected as DMX to EIB mode, different configurations should be made from parameter pages. When DMX to EIB mode is selected, IP/MAC config, DMX config and DMX to EIB config parameters should be set.

3.4.1. IP / MAC Config

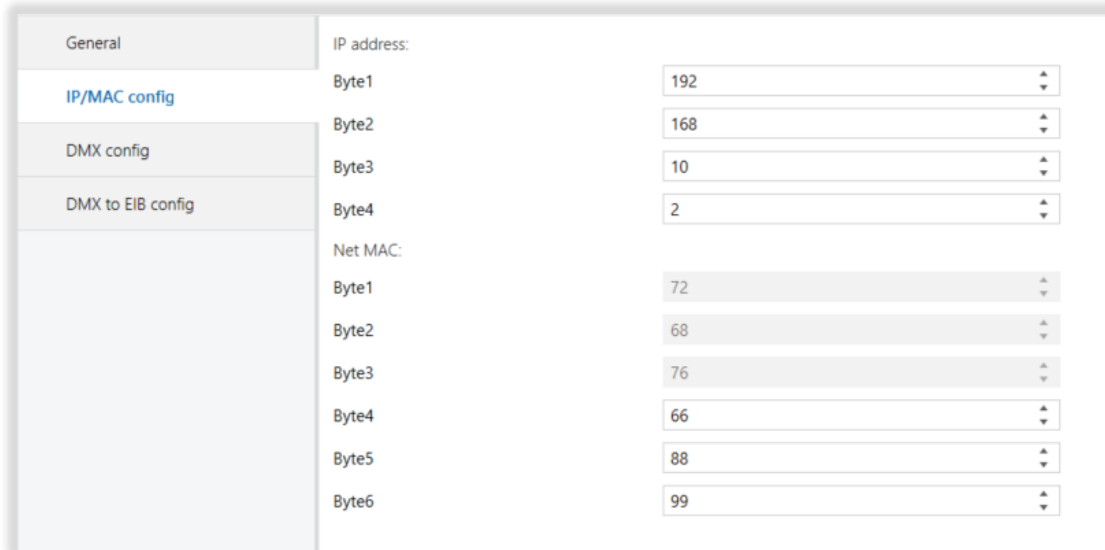


Fig 16 : IP / MAC Config Parameter Page (DMX to EIB)

3.4.2. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>IP address :</b>		
<b>Byte 1</b>	This parameter, is used to set the IP address's first digit. (e.g. 192.168.1.4 ->> 192 is the first digit.)	0... <b>192</b> ...255
<b>Byte 2</b>	This parameter, is used to set the IP address's second digit. (e.g. 192.168.1.4 ->> 168 is the second digit.)	0... <b>168</b> ...255
<b>Byte 3</b>	This parameter, is used to set the IP address's third digit. (e.g. 192.168.1.4 ->> 1 is the third digit.)	0... <b>10</b> ...255
<b>Byte 4</b>	This parameter, is used to set the IP address's fourth digit. (e.g. 192.168.1.4 ->> 4 is the fourth digit.)	0... <b>2</b> ...255
<b>Net MAC :</b>		
<b>Byte 1</b>	This parameter, is used for Net MAC address first digit. Default value can not be changed.	<b>72</b>
<b>Byte 2</b>	This parameter, is used for Net MAC address second digit. Default value can not be changed.	<b>68</b>

<b>Byte 3</b>	This parameter, is used for Net MAC address third digit. Default value can not be changed.	<b>76</b>
<b>Byte 4</b>	This parameter, is used to set the Net MAC address's fourth digit.	0... <b>66</b> ...255
<b>Byte 5</b>	This parameter, is used to set the Net MAC address's fifth digit.	0... <b>88</b> ...255
<b>Byte 6</b>	This parameter, is used to set the Net MAC address's sixth digit.	0... <b>99</b> ...255

### 3.4.3. DMX Config

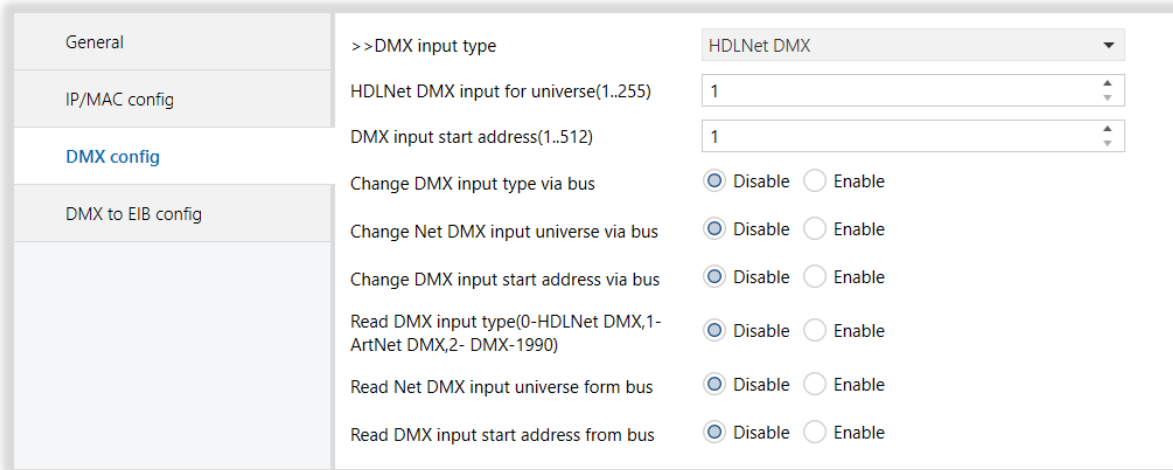


Fig 17 : DMX Config Parameter Page (DMX to EIB)

### 3.4.4. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<b>&gt;&gt; DMX input type(for record)</b>	This parameter, is used to set the DMX input's communication modes. <b>HDLNet DMX</b> : This is belong to HDL protocol. <b>ArtNet DMX</b> : Ethernet protocol based on the TCP/IP protocol suite. <b>DMX-1990</b> : Standard DMX512 protocol.	<b>HDLNet DMX</b> ArtNet DMX DMX-1990
<b>HDLNet DMX input for universe (1...255)</b>	This parameter, is used to set the NO. for input universe.	1...255
<b>ArtNet DMX input for universe (1...255)</b>	This parameter, is used to set the NO. for input universe.	1...255
<b>DMX input start address(1..512)</b>	This parameter, is used to set the start address of the DMX input by other device.	1...512

<p><b>Change DMX input type via bus</b></p>	<p>This parameter, is used to enable or disable the change DMX input type via bus.  <b>Enable</b> : Other devices on the bus can send telegram to change the DMX input type.  <b>Disable</b> : DMX input type can not be changed by other devices.</p>	<p><b>Disable</b> Enable</p>
<p><b>Change Net DMX input universe via bus</b></p>	<p>This parameter, is used to enable or disable the change NetDMX input universe via bus.  <b>Enable</b> : Other devices on the bus can send telegram to change the DMX input universe.  <b>Disable</b> : DMX input universe can not be changed by other devices.</p>	<p><b>Disable</b> Enable</p>
<p><b>Change DMX input start address via bus</b></p>	<p>This parameter, is used to enable or disable the change DMX input start address via bus.</p>	<p><b>Disable</b> Enable</p>
<p><b>Read DMX input type(0-HDLNet DMX, 1-ArtNet DMX, 2-DMX-1990)</b></p>	<p>This parameter, is used to enable or disable the read DMX input type.  <b>Enable</b> : DMX input type can be read by other device.  <b>Disable</b> : DMX input type can not be read by other device.</p>	<p><b>Disable</b> Enable</p>
<p><b>Read Net DMX input universe from bus</b></p>	<p>This parameter, is used to enable or disable the read Net DMX input universe from bus.  <b>Enable</b> : DMX input universe can be read by other device.  <b>Disable</b> : DMX input universe can not be read by other device.</p>	<p><b>Disable</b> Enable</p>
<p><b>Read DMX input start address from bus</b></p>	<p>This parameter, is used to enable or disable the read DMX input start address from bus.  <b>Enable</b> : DMX input start address can be read by other device.  <b>Disable</b> : DMX input start address can not be read by other device.</p>	<p><b>Disable</b> Enable</p>

3.4.5. DMX to EIB Config

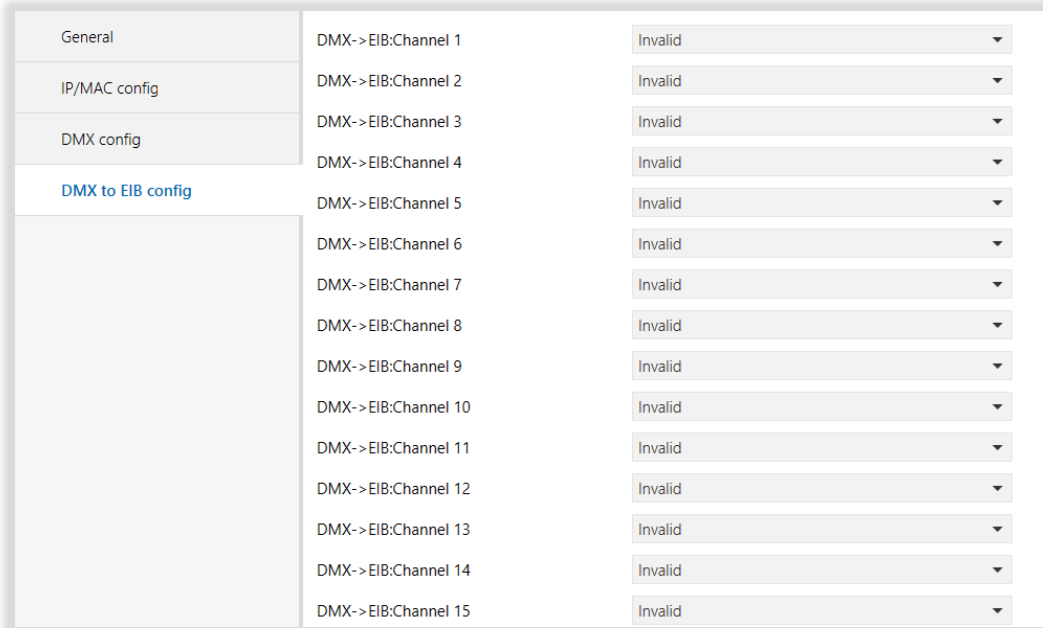


Fig 18 : DMX to EIB Config Parameter Page (DMX to EIB)

3.4.6. Parameters List

PARAMETERS	DESCRIPTION	VALUES
<p><b>DMX -&gt; EIB : Channel 1</b></p> <p>...</p> <p><b>DMX -&gt; EIB : Channel 48</b></p>	<p>This parameter, is used to set the control channels. The control objective are dimming channels and relay channels.</p> <p><b>Invalid</b> : No working.</p> <p><b>1 bit for ON/OFF</b> : The mode is a switch.</p> <p><b>1 byte for dimming</b> : The mode is a dimming.</p>	<p><b>Invalid</b></p> <p>1 bit for ON/OFF</p> <p>1 byte for dimming</p>

## 4. ETS OBJECTS AND DESCRIPTIONS

There are parameters and functions with the same feature when making the relevant configurations from the parameter pages. The objects of the same properties are the same, and only the names of the objects are different. Hence, in this section, usually 1 of the objects with the same feature is explained.

### 4.1. EXTERNAL RECORD MODE

#### 4.1.1. DMX Config

At the following table, the objects associated with the change DMX input type via bus are described.

Object Name	Function	Type	Flags
DMX input type	ON switch to HDLNet DMX	1 bit	C W U
This object, is used to change DMX input type via bus. If the send telegram value is "1", the DMX input type will change to HDLNet DMX.			
DMX input type	ON switch to ArtNet DMX	1 bit	C W U
This object, is used to change DMX input type via bus. If the send telegram value is "1", the DMX input type will change to ArtNet DMX.			
DMX input type	ON switch to DMX-1990	1 bit	C W U
This object, is used to change DMX input type via bus. If the send telegram value is "1", the DMX input type will change to DMX-1990.			

At the following table, the object associated with the change Net DMX input universe via bus is described.

Object Name	Function	Type	Flags
DMX input universe	Change Net DMX input universe	1 byte	C W U
This object, is used to change DMX input universe via bus by using other devices.			

At the following table, the object associated with the read DMX input type via bus is described.

Object Name	Function	Type	Flags
DMX input type	Read DMX input type	1 byte	C R T
This object, is used to read DMX input type via bus by using other devices. If the telegram value is "0", the DMX input type is HDLNet DMX. If the telegram value is "1", the DMX input type is ArtNet. If the telegram value is "2", the DMX input type is DMX-1990.			

At the following table, the object associated with the read Net DMX input universe from bus is described.

Object Name	Function	Type	Flags
DMX input universe	Read DMX input universe	1 byte	C R T

This object, is used to read the DMX input universe via bus by using other devices.

At the following table, the objects associated with the change DMX output type via bus are described.

Object Name	Function	Type	Flags
DMX output type	ON switching to HDLNet DMX	1 bit	C W U

This object, is used to change DMX output type via bus. If the send telegram value is “1”, the DMX output type will change to HDLNet DMX.

DMX output type	ON switch to ArtNet DMX	1 bit	C W U
-----------------	-------------------------	-------	-------

This object, is used to change DMX output type via bus. If the send telegram value is “1”, the DMX output type will change to ArtNet DMX.

DMX output type	ON switch to DMX-1990	1 bit	C W U
-----------------	-----------------------	-------	-------

This object, is used to change DMX output type via bus. If the send telegram value is “1”, the DMX output type will change to DMX-1990.

At the following table, the object associated with the change Net DMX output universe via bus is described.

Object Name	Function	Type	Flags
DMX output universe	Change Net DMX output universe	1 byte	C W U

This object, is used to send telegram to change the DMX output universe via bus by using other devices.

At the following table, the object associated with the read DMX output type via bus is described.

Object Name	Function	Type	Flags
DMX output type	Read DMX output type	1 byte	C R T

This object, is used to read the DMX output type via bus by using other devices. If the telegram value is “0”, the DMX output type is HDLNet DMX. If the telegram value is “1”, the DMX output type is ArtNet. If the telegram value is “2”, the DMX output type is DMX-1990.



At the following table, the object associated with the read Net DMX output universe from bus is described.

Object Name	Function	Type	Flags
DMX output universe	Read DMX output universe	1 byte	C R T

This object, is used to read the DMX output universe via bus by using other devices.

## 4.1.2. Program Config

At the following table, the objects associated with the change program mode via bus are described.

Object Name	Function	Type	Flags
Program mode	ON switch to Play mode	1 bit	C W U

This object, is used to change program mode via bus. If the send telegram value is "1", the DMX output type will change to play mode.

Program mode	ON switch to Record mode	1 bit	C W U
--------------	--------------------------	-------	-------

This object, is used to change program mode via bus. If the send telegram value is "1", the DMX output type will change to record mode.

Program mode	ON switch to Delete mode	1 bit	C W U
--------------	--------------------------	-------	-------

This object, is used to change program mode via bus. If the send telegram value is "1", the DMX output type will change to delete mode.

At the following table, the object associated with the read program mode via bus is described.

Object Name	Function	Type	Flags
Program mode	Read program mode(0-P, 1-R, 2-D)	1 byte	C R T

This object, is used to read the DMX output universe via bus by using other devices. If the telegram value is "0", the DMX output type is play mode. If the telegram value is "1", the DMX output type is record mode. If the telegram value is "2", the DMX output type is delete mode.

At the following table, the objects associated with the enable program group A via bus are described.

Object Name	Function	Type	Flags
Program pause	Pause(0-pause, 1-continue)	1 bit	C W U

This object, is used to control the program pause or continue via bus by using other devices.

Program stop	Stop(0-stop, 1-start)	1 bit	C W U
--------------	-----------------------	-------	-------

This object, is used to control the program stop or start via bus by using other devices.

Program group A	Group A-1...A-8	1 bit	C R T
-----------------	-----------------	-------	-------

This object, is used to control the program groups via bus by using other devices.

## 4.2. DMX DIMMING (EIB TO DMX)

### 4.2.1. DMX Config

At the following table, the objects associated with the change DMX output type via bus are described.

Object Name	Function	Type	Flags
DMX output type	ON switch to HDLNet DMX	1 bit	C W U

This object, is used to change DMX output type via bus. If the send telegram value is "1", the DMX input type will change to HDLNet DMX.

DMX output type	ON switch to ArtNet DMX	1 bit	C W U
-----------------	-------------------------	-------	-------

This object, is used to change DMX output type via bus. If the send telegram value is "1", the DMX input type will change to ArtNet DMX.

DMX output type	ON switch to DMX-1990	1 bit	C W U
-----------------	-----------------------	-------	-------

This object, is used to change DMX output type via bus. If the send telegram value is "1", the DMX input type will change to DMX-1990.

At the following table, the object associated with the change Net DMX output universe via bus is described.

Object Name	Function	Type	Flags
DMX output universe	Change Net DMX output universe	1 byte	C W U

This object, is used to change the DMX output universe via bus by using other devices.

At the following table, the object associated with the change DMX output universe via bus is described.

Object Name	Function	Type	Flags
DMX output start address	Change DMX output address	2 byte	C W U

This object, is used to change the DMX output start address via bus by using other devices.

At the following table, the object associated with the read DMX output type via bus is described.

Object Name	Function	Type	Flags
DMX output type	Read DMX output type	1 byte	C R T

This object, is used to read the DMX output type via bus by using other devices. If the telegram value is "0", the DMX output type is HDLNet DMX. If the telegram value is "1", the DMX output type is ArtNet. If the telegram value is "2", the DMX output type is DMX-1990.

At the following table, the object associated with the read Net DMX output universe from bus is described.

Object Name	Function	Type	Flags
DMX output universe	Read DMX output universe	1 byte	C R T

This object, is used to read the DMX output universe via bus by using other devices.

At the following table, the object associated with the read Net DMX output universe via bus is described.

Object Name	Function	Type	Flags
DMX output start address	Read DMX output address	2 byte	C R T

This object, is used to read the DMX output start address via bus by using other devices.

## 4.2.2. Channel Config

At the following table, the objects associated with enable channel 1...8 via bus are described.

Object Name	Function	Type	Flags
Channel 1	Switching (1 bit)	1 bit	C W U

This object, is used to control channel 1 via bus by using other devices for switching.

Channel 1	Relative dimming	4 bit	C W U
-----------	------------------	-------	-------

This object, is used to control channel 1 via bus by using other devices for relative dimming.

Channel 1	Absolute dimming	1 byte	C R T
-----------	------------------	--------	-------

This object, is used to control channel 1 via bus by using other devices for absolute dimming.

At the following table, the objects associated with scene config via bus are described.

Object Name	Function	Type	Flags
Scene	Call scene(8 bit)	1 byte	C W U

This object, is used to control the scene via bus by other devices. Total 24 scenes and all the scenes have a same address. The value 000000 to 111111 can be sent for calling the scenes.

Scene	Scene dimming(4 bit)	4 bit	C W U
-------	----------------------	-------	-------

This object, is used for scene dimming via bus by other devices.

At the following table, the object associated with sequence config via bus is described.

Object Name	Function	Type	Flags
Sequence	Sequence 1 ... Sequence 6	1 bit	C W U

This object, is used to control the sequence via bus by using other devices.

## 4.3. DMX to EIB

### 4.3.1. DMX Config

At the following table, the objects associated with the change DMX input type via bus are described.

Object Name	Function	Type	Flags
DMX input type	ON switch to HDLNet DMX	1 bit	C W U

This object, is used to change DMX input type via bus. If sending telegram value is "1", the DMX input type will change to HDLNet DMX.

DMX input type	ON switch to ArtNet DMX	1 bit	C W U
----------------	-------------------------	-------	-------

This object, is used to change DMX input type via bus. If sending telegram value is "1", the DMX input type will change to ArtNet DMX.

DMX input type	ON switch to DMX-1990	1 bit	C W U
----------------	-----------------------	-------	-------

This object, is used to change DMX input type via bus. If sending telegram value is "1", the DMX input type will change to DMX-1990.

At the following table, the objects associated with the change Net DMX input universe via bus are described.

Object Name	Function	Type	Flags
DMX input universe	Change Net DMX input universe	1 byte	C W U

This object, is used to change the DMX input universe via bus by using other devices.

DMX input start address	Change DMX input address	2 byte	C W U
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This object, is used to change the DMX input start address via bus by using other devices.

At the following table, the object associated with the read DMX input type via bus is described.

Object Name	Function	Type	Flags
DMX input type	Read DMX input type	1 byte	C R T

This object, is used to read the DMX input type via bus by using other devices. If the telegram value is "0", the DMX input type is HDLNet DMX. If the telegram value is "1", the DMX input type is ArtNet DMX. If the telegram value is "2", the DMX input type is DMX-1990.

At the following table, the object associated with the read Net DMX input universe from bus is described.

Object Name	Function	Type	Flags
DMX input universe	Read DMX input universe	1 byte	C R T

This object, is used to read the DMX input universe via bus by using other devices.

At the following table, the object associated with the read DMX input address via bus is described.

Object Name	Function	Type	Flags
DMX input start address	Read DMX input address	2 byte	C R T

This object, is used to read the DMX input start address via bus by using other devices.

### 4.3.2. DMX to EIB Config

At the following table, the object associated with the temperature threshold is described.

Object Name	Function	Type	Flags
DMX to EIB	Channel 1	1 bit	C R T
	...	4 bit	
	Channel 48	1 byte	

This object, is used to control the dimming, relay and response state objectives. There are 48 channels so it can control 48 objectives.

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## CONTACT INFORMATION

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