



HDL-MCEIB.231

User Manual

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Update History

The form below contains the information of every update. The latest version contains all the updates of all former versions.

No.	Version	Update Information	Date
1	V1.0.0	Initial release	Nov.05 th , 2020

1 Introduction

HDL-MCEIB.231 HDL-BUS and KNX-EIB Interface Converter is a gateway between HDL Buspro and KNX/EIB



1.1 Functionality

- Two-way communication for HDL Buspro and KNX/EIB.
- Various data point format supported.
- Controls up to 254 targets.

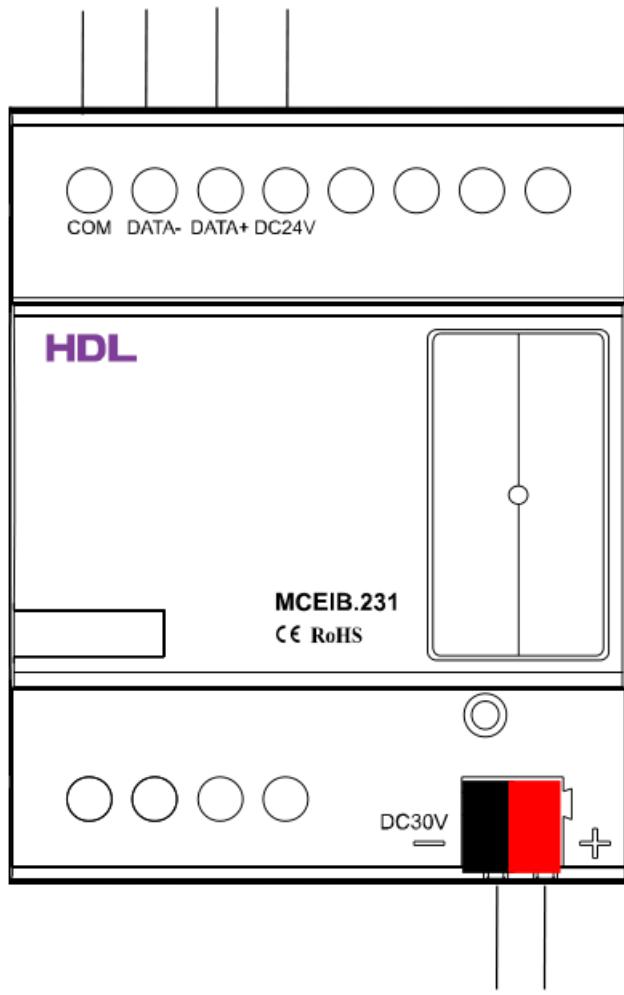
1.2 Parameters

Basic Parameters :	
Working voltage	15~30V DC
Working current	5mA/24V DC
KNX/EIB working voltage	120V/240V AC (50/60Hz)
KNX/EIB working current	6mA/30V DC
Communication	HDL Buspro, KNX/EIB
Software programming	HDL Buspro Setup Tool
External Environment:	
Working temperature	-5°C~45°C
Working relative humidity	≤90%
Storage temperature	-20°C~60°C
Storage relative humidity	≤93%
Specifications:	
Dimensions	72mm×90mm×64mm
Net weight	174g
Housing material	Nylon, PC
Installation	35mm DIN rail installation
Protection rating (Compliant with EN 60529)	IP20

1.3 Product Interface

The connection and interface of HDL-BUS and KNX-EIB Interface Converter like the below figure. It has two interface, the upper port is for HDL Buspro port, the below port is for KNX port.

HDL Buspro



KNX/EIB

2 Configuration

2.1 EIB Setting

As shown in the below figure, from the EIB setting page, it can transfer 254 target totally.

5-200\

EIB setting

Physical Address: 1 . 1 . 26 From (1-254): 1 To 254 Read

Index	Group address	Type	SubNet ID	Device ID	Parameter 1	Parameter 2	More parameters	HDL<--> EIB
1	1 / 1 / 131	Single channel switch(1 b	5	188	1	0	0 : 0	BUS-->EIB
2	1/1/132	Current temperature(2 b...	5	188	N/A	N/A	N/A	EIB-->BUS
3	1/1/133	Current temperature(2 b...	5	188	N/A	N/A	N/A	BUS-->EIB
4	1/0/4	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
5	1/0/5	Scene(1 byte)	0	0	1(Zone no.)	N/A	N/A	NONE
6	1/0/6	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
7	1/0/7	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
8	1/0/8	Scene(1 byte)	0	0	1(Zone no.)	N/A	N/A	NONE
9	1/0/9	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
10	1/0/10	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
11	1/0/11	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
12	1/0/12	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
13	1/0/13	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
14	1/0/14	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
15	1/0/15	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
16	1/0/16	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
17	1/0/17	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
18	1/0/18	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
19	1/0/19	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
20	1/0/20	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
21	1/0/21	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
22	1/0/22	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE
23	1/0/23	Scene(1 byte)	0	0	0(Zone no.)	N/A	N/A	NONE

Save & Close

Device: | 5-200\ | ...

Group address: set the group address of KNX/EIB object which will send out the command to control HDL Buspro device(EIB->HDL BUS direction) or receive the command from HDL Buspro device(HDL BUS->EIB direction)

Type: supported control type: scene, scene dimmer, sequence, Universal switch, single channel switch, curtain control, etc.

5-200\

EIB setting

Physical Address: 1 . 1 . 26 From (1-254): 1 To 1 Read

Index	Group address	Type	SubNet ID	Device ID	Parameter 1	Parameter 2
1	1 / 1 / 131	Single channel switch(1 b	5	188	1	0
2	1/1/132	Scene(1 byte)	5	188	N/A	N/A
3	1/1/133	Scene dimmer(4 bit)	5	188	N/A	N/A
4	1/0/4	Sequence(1 byte)	0	0	0(Zone no.)	N/A
5	1/0/5	Universal switch(1 bit)	0	0	1(Zone no.)	N/A
6	1/0/6	Single channel switch(1 bit)	0	0	0(Zone no.)	N/A
7	1/0/7	Single channel dimmer(4 bit)	0	0	0(Zone no.)	N/A
8	1/0/8	Broadcast scene(1 byte)	0	0	0(Zone no.)	N/A
9	1/0/9	Broadcast channels switch(1	0	0	0(Zone no.)	N/A
10	1/0/10	Broadcast channels dimmer(1	0	0	0(Zone no.)	N/A
11	1/0/11	Curtain switch(1 bit)	0	0	1(Zone no.)	N/A
12	1/0/12	Curtain stop(1 bit)	0	0	0(Zone no.)	N/A
13	1/0/13	Message(1 byte)	0	0	0(Zone no.)	N/A
		String conversion(14 byte)	0	0	0(Zone no.)	N/A
		Absolute dimming(1 byte)	0	0	0(Zone no.)	N/A
		Current temperature(2 byte)	0	0	0(Zone no.)	N/A
		Channel status report(1bit)	0	0	0(Zone no.)	N/A
		Channel level report(1byte)	0	0	0(Zone no.)	N/A
		Panel AC	0	0	0(Zone no.)	N/A

HDL<-->EIB: from here we can set the data direction

EIB->BUS:

The command is transferring from KNX/EIB system to HDL Buspro system

BUS->EIB:

The command is transferring from HDL Buspro system to KNX/EIB system

None:

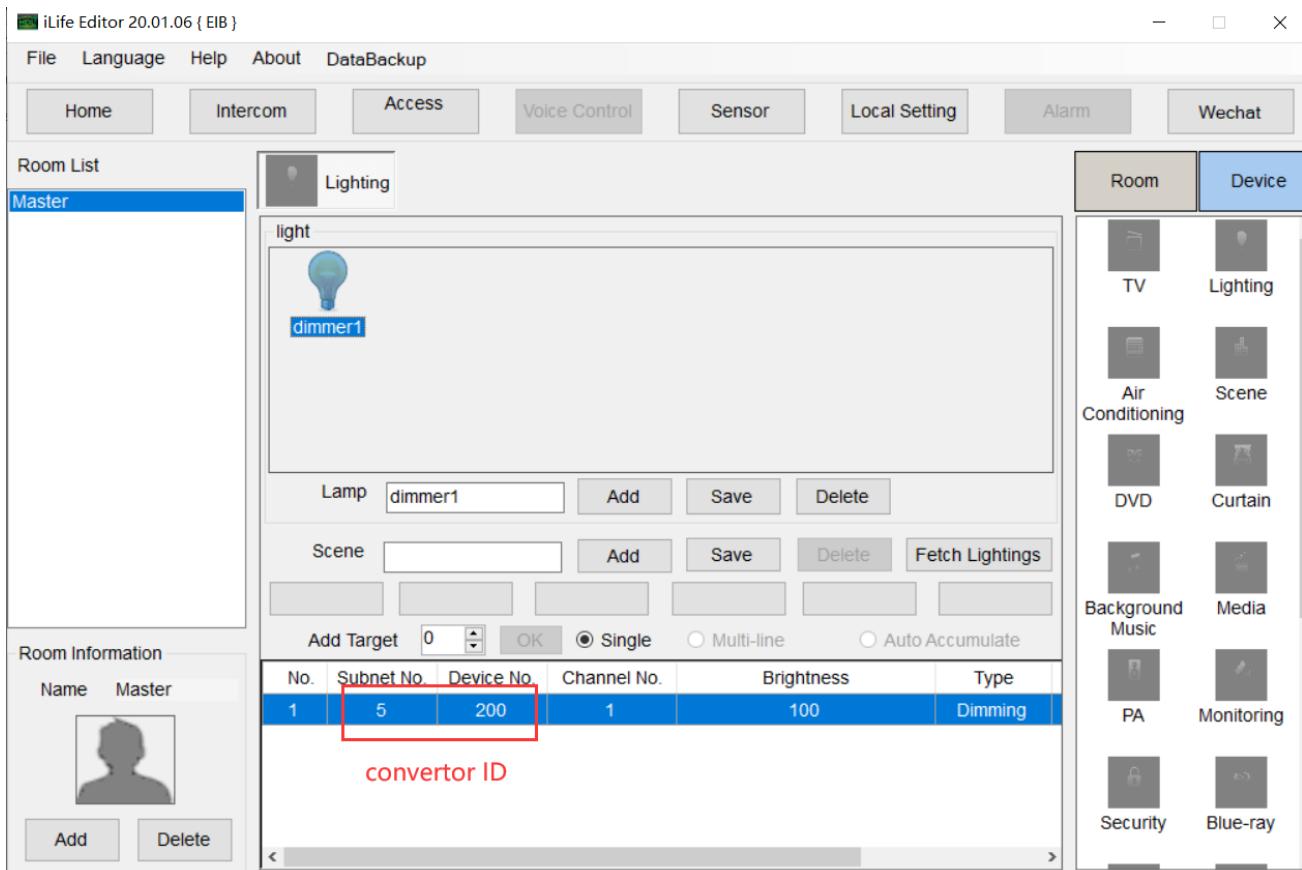
Disable the transferring.

2.2 Channel Output Control

2.2.1 HDL iLife control KNX/EIB channel output

iLife editor settings::

Subnet/devices ID is the converter's ID, and the channel no. is same as the parameter1(chn no.) in the converter.



Converter settings:

EIB group address:

set the group addresses of the dimmer that you want to control

HDL Subent/Device ID:

set the ID which will send out command to control the KNX/EIB dimmer, for iLife(iOS), it has the fixed ID 3/254.

HDL Control Type:

for switch control, use 'single channel switch', the parameter1(chn no.) is same as the channel no. in the

iLife editor, HDL BUS->EIB;

for dimming control, use 'Absolute dimming', the parameter1(chn no.) is same as the channel no. in the iLife editor, HDL BUS->EIB;

for the feedback from KNX/EIB, use 'channel level report(1 byte)', EIB->HDL BUS, so that when the channel is controlled by KNX panel, iLife can show the correct state of it.

EIB setting								
Physical Address:		1	.	1	.	48	From (1-254):	1
Index	Group address	Type	SubNet ID	Device ID	Parameter 1	Parameter 2	More parameters	HDL--> EIB
1	3/1/1	Single channel switch(1 bit)	3	254	1(Channel no.)	100(Intensity)	0:0	BUS-->EIB
2	3/1/4	Channel level report(1byte)	3	254	1(Channel no.)	N/A	N/A	EIB-->BUS
3	3/1/5	Absolute dimming(1 byte)	3	254	1(Channel no.)	N/A	N/A	BUS-->EIB
4	1/0/4	Scene(1 byte)	0	iLife ID	0	1(Zone no.)	N/A	NONE
5	1/0/5	Scene(1 byte)	0	0	1(Zone no.)	N/A	N/A	NONE

KNX/EIB dimmer settings:

Enable the absolute dimming function and channel state response(1byte), assign the group addresses for them, and set these group addresses in the converter.

Topology Backbone													
	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
►	0	General	Send cycles			1 bit	C	R	-	T	-	enable	Low
►	10	Output A	Channel output	dimmer channel 1	3/1/1	1 bit	C	-	W	-	U	switch	Low
►	11	Output A	Relative dimming(4bit)			4 bit	C	-	W	-	U	dimming c...	Low
►	12	Output A	Absolute dimming(8bit)	channel1 absolute d...3/1/5		1 byte	C	-	W	-	U	percentag...	Low
►	13	Output A	Responce state(1bit)	dimmer channel 1 s...3/1/2		1 bit	C	R	-	T	-	switch	Low
►	14	Output A	Responce state(1byte)	channel1 1byte status3/1/4		1 byte	C	R	-	T	-	percentag...	Low
►	30	Output B	Channel output			1 bit	C	-	W	-	U	switch	Low
►	31	Output B	Relative dimming(4bit)			4 bit	C	-	W	-	U	dimming c...	Low

2.2.2 KNX/EIB DLP control HDL dimmer

KNX DLP settings:

Use rocker A left button and right button to control channel1 of HDL Buspro dimmer respectively. 3/1/6 are for switch control, 3/1/7 are for dimming control and 3/1/8 are for status report.

Topology					
		Number	Name	Object Function	Description
		Group Address	Length		
Topology Backbone					
► Dynamic Folders		81	Rocker A left short	Switching	channel1 switch 3/1/6
► 11 New area		82	Rocker A left long	Dimming	channel1 dim 3/1/7
► 11.1 New line		85	Rocker A left	LED status	A status 3/1/8
► 11.1.2 M/R4.10.1		86	Rocker A right short	Switching	
► 11.1.17 M/D02.1		87	Rocker A right long	Switching	
► 11.1.18 M/MPT14.1		91	Rocker B short	Switching	
		92	Rocker B long	Switching	
		101	Rocker C short	Switching	
		102	Rocker C long	Switching	
		111	Rocker D short	Switching	
		112	Rocker D long	Switching	

Converter settings:

EIB Group address:

set the group addresses of KNX DLP which will control the dimmer

HDL Control Type:

for switch control, use 'single channel switch', parameter1 is the channel no. of dimmer, EIB->HDL BUS;

for dimming control, use 'single channel dimmer' (relative dimming), parameter1 is the channel no. of dimmer, EIB->HDL BUS;

for status report, use 'channel status report(1 bit)', HDL BUS->EIB.

EIB setting											
Physical Address:		1	.	1	.	48	From (1-254):	1	To	5	Read
Index	Group address	Type	SubNet ID	Device ID	Parameter 1	Parameter 2	More parameters	HDL--> EIB			
1	3/1/6	Single channel switch(1 bit)	5	22	1(Channel no.)	100(Intensity)	0:0	EIB-->BUS			
2	3/1/7	Single channel dimmer(4 ...	5	22	1(Channel no.)	100(Intensity)	0:0	EIB-->BUS			
3	3/1/8	Channel status report(1bit)	5	22	1(Channel no.)	N/A	N/A	BUS-->EIB			
4	1/0/4	Scene(1 byte)	0	Dimmer ID	1(Scene no.)	N/A	N/A	NONE			
5	1/0/5	Scene(1 byte)	0	0	1(Scene no.)	N/A	N/A	NONE			

2.3 Scene Control

2.3.1 HDL DLP control KNX/EIB scene

Set the subnet/device ID of converter for the controlled target, parameter1 is area no., parameter2 is scene no., control mode is single on/combination on.

5-101\dlp

Settings 1 to 4 Pages AC Floor heating Music Sleep group setting

Page-1 Page-2 Page-3 Page-4

Hint: 1. Double click button id to test it;
2. Click the button id to read its commands, would stop reading if there are three continuous commands are invalid.

Button ID	Name	Mode
1		Single ON
2		Single ON
3		Single ON/OFF
4		Single ON/OFF
5		Single ON/OFF
6		Single ON/OFF
7		Single ON/OFF
8		Single ON/OFF

Targets

Index	Subnet ID	Device ID	Type	Param1	Param2	Param3	Param4
1	5	200	Scene	1[Zone no.]	1[Scene no.]	N/A	N/A

Convertor ID

Convertor settings:

EIB group address:

set the scene group address that you want to control

HDL Subent/Device ID:

set the DLP ID which will send out command to control the KNX/EIB scene

HDL Control Type:

Scene(1 byte)

Parameter1: it is same zone no. which you have set in the DLP

5-200\

EIB setting

Physical Address: 1 . 1 . 48 From (1-254): 1 To 1 Read

Index	Group address	Type	SubNet ID	Device ID	Parameter 1	Parameter 2	More parameters	HDL<--> EIB
1	3/1/10	Scene(1 byte)	5	101	1[Zone no.]	N/A	N/A	BUS-->EIB

DLP ID

KNX/EIB scene settings:

Channel1:

Set the channel1 brightness for different scenes, e.g. Scene1 is 30%, scene2 is 60%, scene3 is 0%;

11.1.17 M/D02.1 > A:scene

General	Fade time of scene dimming(2..255s)	5
Channel A	Total 10 scenes, configuration as following:	
	>> Output assigned to(scene 1..64)	Scene NO.01
	Output brightness value	20%
	Fade time for brighter/darker(0..255s)	3
A:scene	>> Output assigned to(scene 1..64)	Scene NO.02
Channel B	Output brightness value	60%
B>dimming config	Fade time for brighter/darker(0..255s)	3
B:function	>> Output assigned to(scene 1..64)	Scene NO.03
B:scene	Output brightness value	0%(0)
	Fade time for brighter/darker(0..255s)	3
	>> Output assigned to(scene 1..64)	Not allocate
	Output brightness value	100%(255)
	Fade time for brighter/darker(0..255s)	3
	>> Output assigned to(scene 1..64)	Not allocate

Channel2:

Set the channel2 brightness for different scenes, e.g. Scene1 is 50%, scene2 is 80%, scene3 is 0%;

11.1.17 M/D02.1 > B:scene

General	Fade time of scene dimming(2..255s)	5
Channel A	Total 10 scenes, configuration as following:	
	>> Output assigned to(scene 1..64)	Scene NO.01
	Output brightness value	30%
	Fade time for brighter/darker(0..255s)	3
A:scene	>> Output assigned to(scene 1..64)	Scene NO.02
Channel B	Output brightness value	60%
B>dimming config	Fade time for brighter/darker(0..255s)	3
B:function	>> Output assigned to(scene 1..64)	Scene NO.03
B:scene	Output brightness value	0%(0)
	Fade time for brighter/darker(0..255s)	3
	>> Output assigned to(scene 1..64)	Not allocate
	Output brightness val	Default Value: 3 Increment: 1 100%(255)
	Fade time for brighter/darker(0..255s)	3
	>> Output assigned to(scene 1..64)	Not allocate
	Output brightness value	100%/255

Group address:

Assign group address 3/1/10 for channel1 and channel2 scene object, so when it receives command to

call scene1, channel 1 will go to 30%, channel 2 will go to 60%; call scene2, channel 1 will go to 50%,

channel 2 will go to 80%; call scene3, channel 1 and 2 will go to 0%.

Topology						
		Number * Name		Object Function	Description	Group Address
		Length	C	R		
Topology Backbone		10	General	Send cycles		
Dynamic Folders		10	Output A	Channel output	dimmer channel 1	3/1/1
11 New area		11	Output A	Relative dimming(4bit)		1 bit C -
11.1 New line		12	Output A	Absolute dimming(8bit)	channel1 absolute d...	3/1/5
11.1.2 M/R4.10.1		13	Output A	Responce state(1bit)	dimmer channel 1 s...	3/1/2
11.1.17 M/D02.1		14	Output A	Responce state(1byte)	channel1 byte status	3/1/4
11.1.18 M/MPT14.1		23	Output A	Scene(8bit)	scene	3/1/10
		24	Output A	Scene dimming(4bit)		1 byte C -
		30	Output B	Channel output		4 bit C -
		31	Output B	Relative dimming(4bit)		1 bit C -
		43	Output B	Scene(8bit)	scene	3/1/10
		44	Output B	Scene dimming(4bit)		4 bit C -

2.3.2 KNX/EIB DLP control HDL scene

KNX/EIB DLP setting:

Select ‘scene controller’ for the work mode, and set the scene no. of HDL scene you want to control, e.g. Rocker B left button will call scene1 and right button will call scene2.

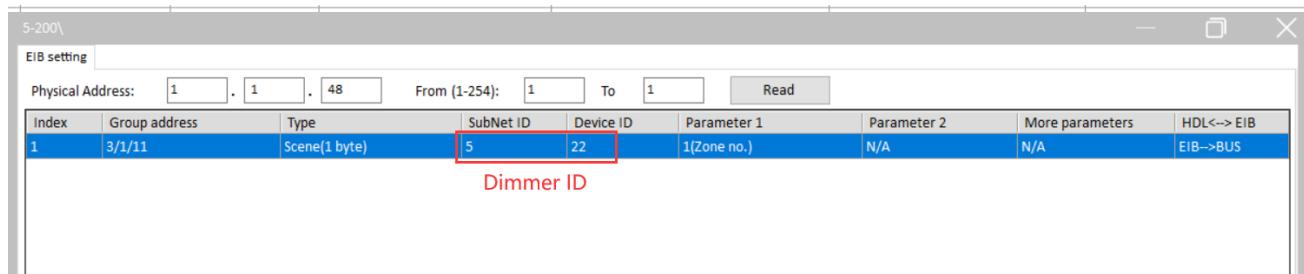
Topology Backbone		11.1.18 M/MPT14.1 > Rocker B	
Dynamic Folders 11 New area 11.1 New line 11.1.2 M/R4.10.1 11.1.17 M/D02.1 11.1.18 M/MPT14.1	General	Rocker B work mode	<input type="radio"/> Independent button mode <input checked="" type="radio"/> Combined button mode
	-->Led indicate	=====	
	-->Security	=====	
	Functions	Rocker B : operation mode	Scene controller
		->Call scene number of the left	Scene NO.01
		->Call scene number of the right	Scene NO.02
		->Long button operation as	Invalid
		--Delay operation for left short button (0..255s)	0
		--Delay operation for right short button (0..256s)	0
		Long button time after	1s
Rocker C	LED status source	Local	
	--LED status	Flashing,then OFF	
	LED color and brightness	<input checked="" type="radio"/> Default <input type="radio"/> Custom	
	Rocker D		

Group address:

Assign group address for rocker B scene control object, e.g. 3/1/11.

Topology								
		Number * Name		Object Function	Description	Group Address		
		Length	C	R	W	T	U	I
Topology Backbone		81	Rocker A left short	Switching	channel1 switch	3/1/6	1 bit	C - W T U s
Dynamic Folders		82	Rocker A left long	Dimming	channel1 dim	3/1/7	4 bit	C - W T U d
11 New area		85	Rocker A left	LED status	A status	3/1/8	1 bit	C R W T U s
11.1 New line		86	Rocker A right short	Switching			1 bit	C - W T U s
11.1.2 M/R4.10.1		87	Rocker A right long	Switching			1 bit	C - W T U s
11.1.17 M/D02.1		91	Rocker B short	Call scene	scene	3/1/11	1 byte	C - W T U s
11.1.18 M/MPT14.1		101	Rocker C short	Switching			1 bit	C - W T U s
		102	Rocker C long	Switching			1 bit	C - W T U s
		111	Rocker D short	Switching			1 bit	C - W T U s
		112	Rocker D long	Switching			1 bit	C - W T U s

Converter settings:



HDL Buspro scene settings:

Scene1:

Scene No.	Name	Runtime(mm:ss)
0	ALL OFF	0:0
1	ALL ON	0 : 0
2	Morning	0:0
3	Relex	0:0
4	Romantic	0:0
5		0:0
6		0:0
7		0:0
8		0:0
9		0:0
10		0:0
11		0:0

Chn No.	Name	Intensity
1		100
2		100
3		100
4		100

Scene 2:

Scene No.	Name	Runtime(mm:ss)
0	ALL OFF	0:0
1	ALL ON	0:0
2	Morning	0 : 0
3	Relex	0:0
4	Romantic	0:0
5		0:0
6		0:0
7		0:0
8		0:0
9		0:0
10		0:0
11		0:0
12		0:0

Chn No.	Name	Intensity
1		30
2		30
3		30
4		30

2.4 Sequence Control

2.4.1 HDL DLP control KNX/EIB sequence HDL DLP settings:

Set the subnet/device ID of converter for the controlled target, use 'UV Switch' command type to control.

Button ID	Name	Mode
1		Single ON/OFF
2		Single ON
3		Single ON
4		Single ON/OFF
5		Single ON/OFF
6		Single ON/OFF
7		Single ON/OFF
8		Single ON/OFF

Index	Subnet ID	Device ID	Type	Param1	Param2	Param3	Param4
1	5	200	Universal Switch	1(Switch no.)	ON(Switch St...)	N/A	N/A

Converter settings:

Control type is 'UV switch', switch no. is same as the switch no. which has set in the panel

Index	Group address	Type	SubNet ID	Device ID	Parameter 1	Parameter 2	More parameters	HDL<-> EIB
1	3/1/12	Universal switch(1 bit)	5	101	1(Switch no.)	N/A	N/A	BUS->EIB

KNX/EIB sequence settings

11.1.17 M/D02.1 > G:sequence 1	
General	Operaton mode of the sequence 1 Start with "1",Stop with "0"
G:sequence 1	Control mode of the sequence 1 FWD
Channel A	Runing mode of the sequence 1 Single Cycle
A>dimming config	Runing time(0..255 hours,0h&0m-unlimited) 0
A:function	Runing time(0..59 mins,0h&0m-unlimited) 0
A:scene	Position after running time out Invalid
Channel B	>>Step 1 configuration Scene NO.01
B>dimming config	Time for step 1 (0..65535s) 5
B:function	Time for step 1 (0..999ms) 0
B:scene	>>Step 2 configuration Scene NO.03
	Time for step 2 (0..65535s) 5
	Time for step 2 (0..999ms) 0

Topology

Add Channels | Delete | Download | Info | Reset | Unload | Print

Topology Backbone

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type
10	General	Send cycles			1 bit	C	-	W	-	U	enable
11	General	Sequence 1	sequence	3/1/12	1 bit	C	-	W	-	U	start/stop
10	Output A	Channel output	dimmer channel 1	3/1/1	1 bit	C	-	W	-	U	switch
11	Output A	Relative dimming(4bit)			4 bit	C	-	W	-	U	dimmer
12	Output A	Absolute dimming(8bit)	channel1 absolute d...	3/1/5	1 byte	C	-	W	-	U	percent
13	Output A	Responce state(1bit)	dimmer channel 1 s...	3/1/2	1 bit	C	R	-	T	-	switch
14	Output A	Responce state(1byte)	channel1 1byte status	3/1/4	1 byte	C	R	-	T	-	percent
23	Output A	Scene(8bit)	scene	3/1/10	1 byte	C	-	W	-	U	
24	Output A	Scene dimming(4bit)			4 bit	C	-	W	-	U	dimmer
30	Output B	Channel output			1 bit	C	-	W	-	U	switch
31	Output B	Relative dimming(4bit)			4 bit	C	-	W	-	U	dimmer
43	Output B	Scene(8bit)	scene	3/1/10	1 byte	C	-	W	-	U	
44	Output B	Scene dimming(4bit)			4 bit	C	-	W	-	U	dimmer

2.4.2 KNX/EIB DLP control HDL sequence

KNX/EIB DLP setting:

Select ‘1 byte threshold’ as control type, the input threshold value is the sequence no. of HDL sequence, ‘0’ means stop running the sequence.

Topology

Add Channels | Delete | Download | Help | Highlight Changes | Default Parameters | Grant Customer Access

Topology Backbone

11.18 M/MPT14.1 > Rocker C

General	Rocker C work mode	<input type="radio"/> Independent button mode <input checked="" type="radio"/> Combined button mode
-->Led indicate		
-->Security		
Functions	Rocker C : operation mode	Threshold controller
	Threshold value type	1byte threshold
Shortcut button	->Threshold on left short button	1
	->Threshold on left long button	0 Sequence no. 1 means sequence 1 0 means stop
Rocker A	--Delay on left short button	0
Rocker B	--Delay on left long button(0..255s)	0
Rocker C	->Threshold on right short button	0
	->Threshold on right long button	0
Rocker D	--Delay on right short button	0
	--Delay on right long button(0..255s)	0
	Long button time after	1s

LED status source	LED status	Local
	-LED status	Flashing,then OFF

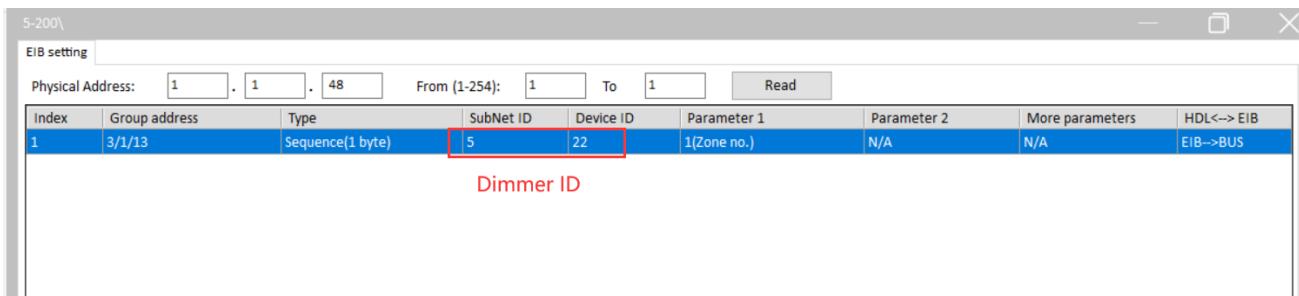
Topology

Add Channels | Delete | Download | Info | Reset | Unload | Print

Topology Backbone

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
81	Rocker A left short	Switching	channel1 switch	3/1/6	1 bit	C	-	W	T	U	switch	Low
82	Rocker A left long	Dimming	channel1 dim	3/1/7	4 bit	C	-	W	T	U	dimming cont...	Low
85	Rocker A left	LED status	A status	3/1/8	1 bit	C	R	W	T	U	switch	Low
86	Rocker A right short	Switching			1 bit	C	-	W	T	U	switch	Low
87	Rocker A right long	Switching			1 bit	C	-	W	T	U	switch	Low
91	Rocker B short	Call scene	scene	3/1/11	1 byte	C	-	W	T	U	scene control	Low
101	Rocker C	Threshold(1byte)	sequence	3/1/13	1 byte	C	-	W	T	U	percentage	Low
111	Rocker D short	Switching			1 bit	C	-	W	T	U	switch	Low
112	Rocker D long	Switching			1 bit	C	-	W	T	U	switch	Low

Converter settings:

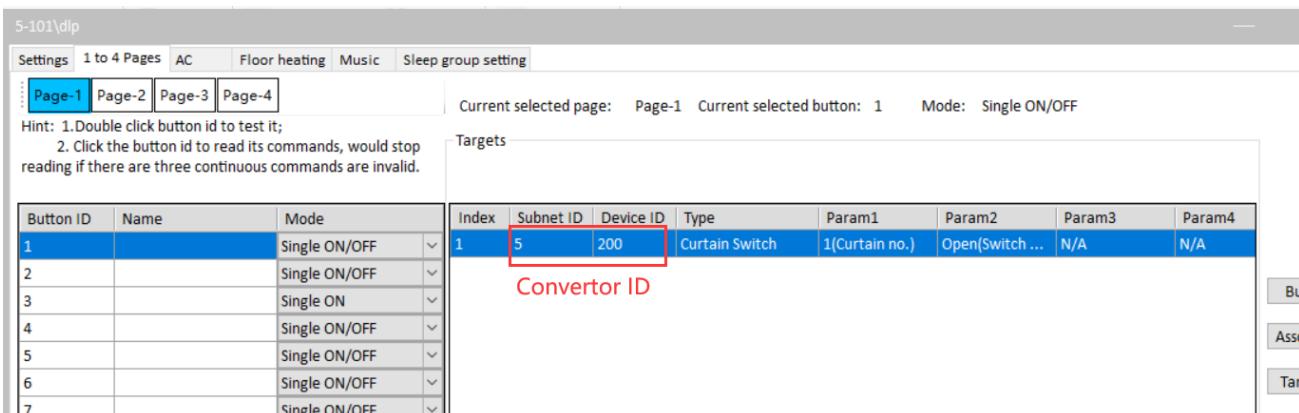


2.5 Curtain control

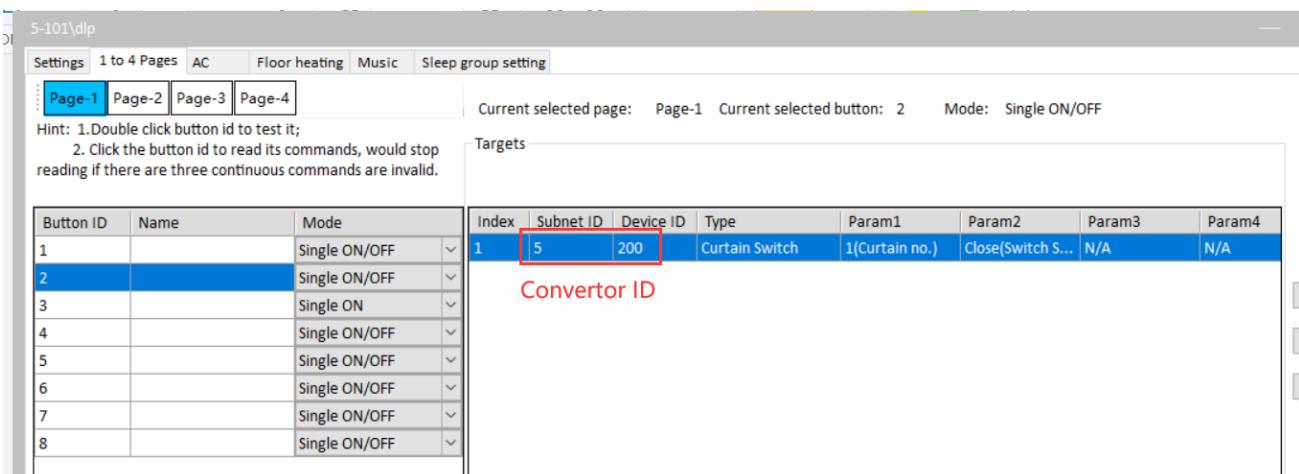
2.5.1 HDL DLP control KNX/EIB curtain

HDL DLP settings:

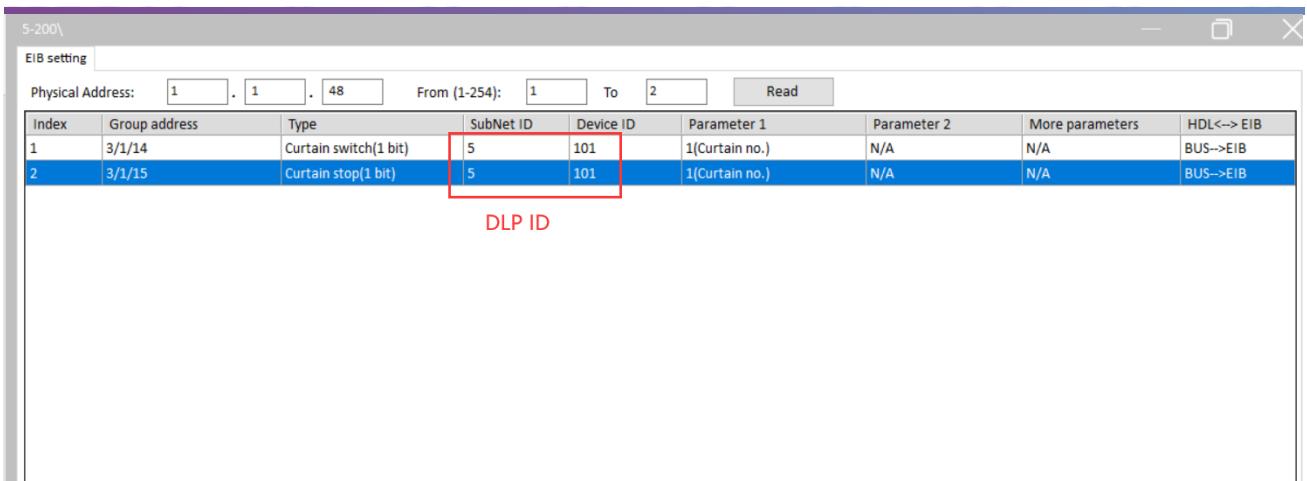
Single on/off control, parameter2 is on, then can open/stop the curtain channel1 (parameter1 is ch no.)



Single on/off control, parameter2 is off, then can close/stop the curtain channel1 (parameter1 is ch no.)



Converter settings:



KNX/EIB curtain settings:

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Prio
10	Output A	Move shutter up/down	Curtain switch	3/1/14	1 bit	C	-	W	-	U	up/down	Low
11	Output A	Stop moving	Curtain stop	3/1/15	1 bit	C	-	W	-	U		Low
50	Output B	Move shutter up/down			1 bit	C	-	W	-	U	up/down	Low
51	Output B	Stop moving			1 bit	C	-	W	-	U		Low

2.5.2 KNX/EIB DLP control HDL curtain

KNX/EIB DLP settings:

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
81	Rocker A left short	Switching	channel1 switch	3/1/6	1 bit	C	-	W	T	U	switch	Low
82	Rocker A left long	Dimming	channel1 dim	3/1/7	4 bit	C	-	W	T	U	dimming c...	Low
85	Rocker A left	LED status	A status	3/1/8	1 bit	C	R	W	T	U	switch	Low
86	Rocker A right short	Switching			1 bit	C	-	W	T	U	switch	Low
87	Rocker A right long	Switching			1 bit	C	-	W	T	U	switch	Low
91	Rocker B short	Call scene	scene	3/1/11	1 byte	C	-	W	T	U	scene cont...	Low
101	Rocker C	Threshold(1byte)	sequence	3/1/13	1 byte	C	-	W	T	U	percentag...	Low
111	Rocker D	Adjust/Stop for shutter	Curtain stop	3/1/17	1 bit	C	-	W	T	U	step	Low
112	Rocker D	Move for shutter	Curtain switch	3/1/16	1 bit	C	-	W	T	U	up/down	Low

Converter settings:

EIB setting								
Physical Address:		From (1-254):	To	Read				
Index	Group address	Type	SubNet ID	Device ID	Parameter 1	Parameter 2	More parameters	HDL<-> EIB
1	3/1/16	Curtain switch(1 bit)	5	7	1(Curtain no.)	N/A	N/A	EIB->BUS
2	3/1/17	Curtain stop(1 bit)	5	7	1(Curtain no.)	N/A	N/A	EIB-->BUS

Curtain ID