



KNX M/DALI.1



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Part 01

Introduction



With built-in DALI power supply and a single DALI Bus, KNX-DALI Gateway can be connected to up to 64 DALI devices. Real-time failure detection enables the gateway to detect ballast failure and lamp failure etc.

1.1.1 M/DALI.1 > General

General

Function

System delay(3..255s)	<input type="text" value="3"/>
Heartbeat telegram	<input type="text" value="Disable"/>
Test(left short button)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-Test time interval(2..255s)	<input type="text" value="2"/>
Function on/off(right short button)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
New address(left long button)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Remove all address(right long button)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
*Replace the ballast(left & right long button)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

New address (left long button): reassigning ballast address function. This function can remove original ballast addresses, so please pay attention.

Remove all address (right long button): removing ballast address function. This function can clear all ballast addresses, so please pay attention.

1.1.1 M/DALI.1 > Functions

General	Broadcast	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Functions	Group	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Channel	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Scene	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Additional functions	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

Enable gateway functions in the function page.

DALI Gateway supports:

1. Broadcast
2. Group: up to 16 groups can be configured.
3. Channel: up to 64 channels can be configured.
4. Scene: up to 16 scenes can be configured.
5. Additional functions: including staircase light, sequence and emergency light function

1.1.1 M/DALI.1 > Broadcast

General	Colour Control Type	<input checked="" type="radio"/> None <input type="radio"/> Colour Temperature
Functions	Brightness value when switch ON	100%(255) ▼
Broadcast	Permit be turned on via relative dimming telegram	<input type="radio"/> No <input checked="" type="radio"/> Yes
-B:status	Switching ON(1bit):time for reach switch on	2.0s ▼
-B:scenes	Switching OFF(1bit):time for reach switch off	2.0s ▼
Groups	Relative dimming(4bits):time for 0..100%	5.6s ▼
Channels	Absolute dimming(8bits):time for reach set brightness value	2.0s ▼

Colour control type: to enable color temperature control function. If light brightness is 0 when broadcast is enabled, color temperature settings do not work.

- If “None” is selected, color temperature control function will be disabled.
- If “Colour Temperature” is selected, color temperature control function will be enabled.

1.1.1 M/DALI.1 > -B:status

General	Status: -----
Functions	Response of switch status(1bit) <input type="radio"/> Disable <input checked="" type="radio"/> Enable
Broadcast	-Send status Always response
-B:status	-Switch status value <input checked="" type="radio"/> '1'-(ON lamps>0),'0'-(ON lamps=0) <input type="radio"/> '0'-(ON lamps>0),'1'-(ON lamps=0)
-B:scenes	Response of brightness status(1byte) <input type="radio"/> Disable <input checked="" type="radio"/> Enable
	-Send status Always response
	-Brightness status value Highest brightness of lamps
	Response of colour temperature status (2byte) <input type="radio"/> Disable <input checked="" type="radio"/> Enable
	-Send status Always response
	Lamp fault status <input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Ballast fault status <input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Status recovery: -----
	Brightness_recovery Disable
	Colour Temperature recovery Disable
	Colour Temperature for recovery 3000

Group Objects Parameter

Response of switch status (1 bit): to enable/disable switch status feedback function (with 1-bit object).

Response of brightness status (1 byte): to enable/disable light brightness feedback function (with 1-byte object).

Response of colour temperature status (2 bytes): to enable color temperature status feedback function

1.1.1 M/DALI.1 > Channels

General	Channel 1 &..Channel 16	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Functions	Channel 17 &..Channel 32	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Broadcast	Channel 33 &..Channel 48	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
-B:status	Channel 49 &..Channel 64	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
-B:scenes	Scenes: Channel Scenes	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Channels	Channel Scenes Recovery	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

Enable “Channel” in function selection page

- 1.Channel N & Channel N+15 (N=1, 17, 33, 49): to enable/disable the selected channel.
2. Channel scenes: to enable scene. If “Disable” is selected, all channel scene function configured singly will not work.
 - Channel scenes recovery: after “Enable” is selected in “Channel scenes”, scene restoration function can be enabled. If “Disable” is selected, all channel scene restoration function configured singly will not work

1.1.1 M/DALI.1 > >Channel 1

General	Channel 1 Name	Channel 1
Functions	Address of device	A0
Broadcast	Colour Control Type	<input type="radio"/> None <input checked="" type="radio"/> Colour Temperature
-B:status	Brightness value when switch ON	100%(255)
-B:scenes	Colour temperature value when switch ON	3000
Channels	Colour control behavior when switch ON	<input type="radio"/> Last Colour Temperature <input checked="" type="radio"/> Colour Temperature Above
>Channel 1	Permit be turned on via relative dimming telegram	<input type="radio"/> No <input checked="" type="radio"/> Yes
-Ch1:status	Switching ON(1bit):time for reach switch on	2.0s
-Ch1:scenes	Switching OFF(1bit):time for reach switch off	2.0s
>Channel 2	Relative dimming(4bits):time for 0..100%	5.6s
-Ch2:status	Absolute dimming(8bits):time for reach set brightness value	2.0s
-Ch2:scenes	Mode	-----
>Channel 3	Operation mode	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
-Ch3:status	Scene	-----
-Ch3:scenes	Channel 1 Scenes	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	Channel 1 Scenes For Recovery	Disable

Group Objects / Parameter

1. Channel N (N=1, ..., 64) Name: to change channel name.
2. Address of device: to select corresponding device address.
3. Colour control type: to enable color temperature control function. If light brightness is 0 when channel is enabled, color temperature settings do not work

1.1.1 M/DALI.1 > -Ch1:status

General	Status: -----
Functions	Response of switch status(1bit) <input type="radio"/> Disable <input checked="" type="radio"/> Enable
Broadcast	-Send status Always response
-B:status	-Switch status value <input checked="" type="radio"/> '1'-ON,'0'-OFF <input type="radio"/> '0'-ON,'1'-OFF
-B:scenes	Response of brightness status(1byte) <input type="radio"/> Disable <input checked="" type="radio"/> Enable
Channels	-Send status Always response
>Channel 1	-Brightness status value Brightness of lamps
-Ch1:status	Lamp fault status <input checked="" type="radio"/> Disable <input type="radio"/> Enable
-Ch1:scenes	Ballast fault status <input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Status recovery: -----
	Brightness recovery Disable

Response of switch status (1 bit): to enable/disable switch status feedback function (with 1-bit object).

Response of brightness status (1 byte): to enable/disable light brightness feedback function (with 1-byte object).

Enable Channel 1 Scene

1.1.1 M/DALI.1 > >Channel 1

General	Channel 1 Name	Channel 1
Functions	Address of device	A0
Broadcast	Colour Control Type	<input type="radio"/> None <input checked="" type="radio"/> Colour Temperature
-B:status	Brightness value when switch ON	100%(255)
-B:scenes	Colour temperature value when switch ON	3000
Channels	Colour control behavior when switch ON	<input type="radio"/> Last Colour Temperature <input checked="" type="radio"/> Colour Temperature Above
>Channel 1	Permit be turned on via relative dimming telegram	<input type="radio"/> No <input checked="" type="radio"/> Yes
-Ch1:status	Switching ON(1bit):time for reach switch on	2.0s
-Ch1:scenes	Switching OFF(1bit):time for reach switch off	2.0s
>Channel 2	Relative dimming(4bits):time for 0..100%	5.6s
-Ch2:status	Absolute dimming(8bits):time for reach set brightness value	2.0s
-Ch2:scenes	Mode	-----
>Channel 3	Operation mode	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
-Ch3:status	Scene	-----
-Ch3:scenes	Channel 1 Scenes	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	Channel 1 Scenes For Recovery	Disable

1.1.1 M/DALI.1 > -Ch1:scenes

General	Channel 1 Scenes	-----
Functions	Scenes source	<input checked="" type="radio"/> Scene in master <input type="radio"/> Scene in ballast
Broadcast	Dimming time for channel scenes	2.0s
-B:status	Channel 1 Scene 1 Colour Control Type	<input checked="" type="radio"/> None <input type="radio"/> Colour Temperature
-B:scenes	Channel 1 Scene 1 brightness value	Inactive
Channels	Channel 1 Scene 2 Colour Control Type	<input checked="" type="radio"/> None <input type="radio"/> Colour Temperature
>Channel 1	Channel 1 Scene 2 brightness value	Inactive
-Ch1:status	Channel 1 Scene 3 Colour Control Type	<input checked="" type="radio"/> None <input type="radio"/> Colour Temperature
-Ch1:scenes	Channel 1 Scene 3 brightness value	Inactive
	Channel 1 Scene 4 Colour Control Type	<input checked="" type="radio"/> None <input type="radio"/> Colour Temperature
	Channel 1 Scene 4 brightness value	Inactive

Scenes source: to select “Scene in master” or “Scene in ballast” (only one kind of scene is available at one time).

Scene in master: the scenes saved in DALI master, which can be downloaded to DALI Gateway after the configuration of ETS.

Scene in ballast: the scenes saved in ballast. Each ballast can configure 16 scenes, which can be called via ETS software.

1.1.1 M/DALI.1 > Functions

General	Broadcast	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Functions	Group	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Broadcast	Channel	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-B:status	Scene	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-B:scenes	Additional functions	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Channels		

Enable “Scene” in function selection page

Note: this function is the combination of scenes, which can control broadcast, 16 groups and 64 channels at the same time.

1.1.1 M/DALI.1 > Scenes

>Channel 15	Scene 1 & Scene 2	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-Ch15:status	Scene 3 & Scene 4	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
-Ch15:scenes	Scene 5 & Scene 6	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
>Channel 16	Scene 7 & Scene 8	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
-Ch16:status	Scene 9 & Scene 10	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
-Ch16:scenes	Scene 11 & Scene 12	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Scenes	Scene 13 & Scene 14	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
>Scene 1	Scene 15 & Scene 16	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Scene 1 broadcast	Recovery:	-----
	Reaction after bus voltage recovery(KNX or DALI)	Disable

The setting items are explained below:

1. Scene N & N+1 (N=1, ..., 15): to enable/disable the selected scene.
2. Reaction after bus voltage recovery (KNX or DALI): to set the scene called after voltage recovery.
 - If “Disable” is selected, scene restoration function will be disabled.
 - If “Last Scene” is selected, the last recorded scene before power down can be restored.
 - If “Scene No.N (N=1, ..., 16)”, scene 1-16 can be selected to restore.

1.1.1 M/DALI.1 > -Scene 1 broadcast

>Channel 15

-Ch15:status

-Ch15:scenes

>Channel 16

-Ch16:status

-Ch16:scenes

Scenes

>Scene 1

-Scene 1 broadcast

-Scene 1 group

-Scene 1 channel

Broadcast colour control type

None Colour Temperature

Broadcast brightness value

Inactive ▼

1.1.1 M/DALI.1 > Functions

General	Broadcast	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Functions	Group	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Broadcast	Channel	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-B:status	Scene	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-B:scenes	Additional functions	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

1.1.1 M/DALI.1 > Additional functions

General	Additional function 1	Disable
Functions	Additional function 2	Disable ✓
Broadcast	Additional function 3	Staircase light
	Additional function 4	Sequence
		Emergency light

The setting items are explained below:

Additional function N (N=1, ..., 16): to select additional function.

1. Staircase light
2. Sequence
3. Emergency light



Part 2

Commission

Commission--- Ballasts Management



Run the HDL KNX Assistant Software. Go to Setting-> Communication mode, select the available interface. If it's the USB downloader, please select the "USB" type. If it's the KNX IP router, please select "KNXnet/IP" type and corresponding IP interface. Then click "Test". After it shows OK, select "Apply"

The screenshot shows the HDL KNX Assistant Software V1.1-80 interface. The 'Setting' icon is highlighted with a red box. The 'Communication' dialog is open, showing a table of device information and a 'Select communication interface' dropdown menu. The 'Config interface' button is highlighted with a red box. The 'ETS Connection Manager' dialog is also open, showing a list of configured connections with 'M/GWASC.1' selected. The 'Type' dropdown is set to 'KNXnet/IP' and is highlighted with a red box. The 'Communication parameters' section shows 'HDL KNXnet/IP Device (192.168.10.9)' selected in the dropdown menu, also highlighted with a red box. The 'OK' button is highlighted with a red box.

Index	Local address	Device
1		
2		
3		
4		
5		
6		
7	1.1.170	M/DLP04.1(V1.1)
8	1.1.19	M/DALI.1(V1.2)
9	1.1.2	M/DALI.1(V1.2)
10	1.1.24	M/MPTLC43.1(V1.0)
11	1.1.3	M/DLP04.1(V1.0)
12	1.1.33	M/IRAC.1-C(V1.1)
13	1.1.4	M/MPT14.1(V1.0)
14	1.1.5	M/DALI.1(V1.2)
15	1.1.6	M/DALI.1(V1.2)
16	1.1.61	M/IRAC.1-C(V1.1)
17	1.1.62	M/IRAC.1(V1.1)
18	1.1.63	M/IRAC.1(V1.1)

Commission--- Ballasts Management

Setting Link Gateway Add device Clear device Edit device

Device information

Index	Physical address	Device type	Remark
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Add Device

Device Type: M/DALI.1(V1.2)

Physical address: 1 . 1 . 26

Remark:

Add

Exit

Device count: 0 | Connection status: IP

Select the version according to your module

Enter the Individual address of Dali module

Setting Link Gateway Add device Clear device Edit device

Device information

Index	Physical address	Device type	Remark
1	1.1.26	M/DALI.1(V1.2)	

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DALI manage group

Basic information

Physical address: 1 . 1 . 26 Remark:

DALI manage group address(request string): 1 / 1 / 251

DALI manage group address(response string): 1 / 1 / 252 Modify

Group information

Fast refresh Refresh master Read Write Initialization Extend address Modify address Exchange address Exchange addresses Clear all Clear current Level Export Import Recovery Scenes Switch view

Address	Repetition	Address information	Target	序号 ^	名称	对象功能	描述	群组地址	长度	C	R	W	T	U	数据类型
				316	Channel 12 Scene 1..16	Call Channel 12 Scene			1 byte	C	-	W	-	-	scene co
				317	Channel 13	Switch(1bit)			1 bit	C	-	W	-	U	switch
				318	Channel 13	Relative dimming(4bits)			4 bit	C	-	W	-	U	dimming
				319	Channel 13	Absolute dimming(1byte)			1 byte	C	-	W	-	U	percenta
				321	Channel 13	Status(1bit)			1 bit	C	R	-	T	-	switch
				322	Channel 13	Status(1byte)			1 byte	C	R	-	T	-	percenta
				326	Channel 13 Scene 1..16	Call Channel 13 Scene			1 byte	C	-	W	-	-	scene co
				327	Channel 14	Switch(1bit)			1 bit	C	-	W	-	U	switch
				328	Channel 14	Relative dimming(4bits)			4 bit	C	-	W	-	U	dimming
				329	Channel 14	Absolute dimming(1byte)			1 byte	C	-	W	-	U	percenta
				331	Channel 14	Status(1bit)			1 bit	C	R	-	T	-	switch
				332	Channel 14	Status(1byte)			1 byte	C	R	-	T	-	percenta
				336	Channel 14 Scene 1..16	Call Channel 14 Scene			1 byte	C	-	W	-	-	scene co
				337	Channel 15	Switch(1bit)			1 bit	C	-	W	-	U	switch
				338	Channel 15	Relative dimming(4bits)			4 bit	C	-	W	-	U	dimming
				339	Channel 15	Absolute dimming(1byte)			1 byte	C	-	W	-	U	percenta
				341	Channel 15	Status(1bit)			1 bit	C	R	-	T	-	switch
				342	Channel 15	Status(1byte)			1 byte	C	R	-	T	-	percenta
				346	Channel 15 Scene 1..16	Call Channel 15 Scene			1 byte	C	-	W	-	-	scene co
				347	Channel 16	Switch(1bit)			1 bit	C	-	W	-	U	switch
				348	Channel 16	Relative dimming(4bits)			4 bit	C	-	W	-	U	dimming
				349	Channel 16	Absolute dimming(1byte)			1 byte	C	-	W	-	U	percenta
				351	Channel 16	Status(1bit)			1 bit	C	R	-	T	-	switch
				352	Channel 16	Status(1byte)			1 byte	C	R	-	T	-	percenta
				356	Channel 16 Scene 1..16	Call Channel 16 Scene			1 byte	C	-	W	-	-	scene co
				837	Scene 1..16	Call scene(1byte)			1 byte	C	-	W	-	-	scene co
				838	Scene 1/2	'0'-Scene 1 / '1'-Scene 2			1 bit	C	-	W	-	-	switch
				846	Additional funtion 1	Sequence			1 bit	C	-	W	-	-	start/sto
				890	DALI Manage	Request string	Resquest	1/1/251	14 bytes	C	-	W	-	-	Characte
				891	DALI Manage	Response string	Response	1/1/252	14 bytes	C	-	-	T	-	Characte

Device address: 1.1.26 Remark

DALI manage group

Basic information

Physical address: 1 . 1 . 26 Remark:

DALI manage group address(request string): 1 / 1 / 251

DALI manage group address(response string): 3 1 / 1 / 252

Group information

Fast refresh Refresh master Read Write **Initialization** Extend address Modify address Exchange address Exchange addresses Clear all Clear current Level Export Import Recovery Scenes Switch view

Address	Repetition	Address information	Target address	Remark	Light and ballast
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Device address: 1.1.26 Remark

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DALI manage group

Basic information

Physical address: 1 . 1 . 26 Remark:

DALI manage group address(request string): 1 / 1 / 251

DALI manage group address(response string): 1 / 1 / 252

Group information

4

Address	Repetition	Address information	Target address	Remark	Light and ballast
A0			A0		
A1			A1		Light is bad
A2			A2		

Device address: 1.1.26 Remark Address count:3

DALI manage group

Basic information

Physical address: 1 . 1 . 26 Remark:

DALI manage group address(request string): 1 / 1 / 251

DALI manage group address(response string): 1 / 1 / 252 Modify

Group information

Address	Repetition	Address information	Target address	Remark	Light and ballast
A0			A0		
A1			A1		Light is bad
A2			A2		

Device address: 1.1.26 Remark Address count:3

DALI manage group

Basic information

Physical address: 1 . 1 . 26 Remark:

DALI manage group address(request string): 1 / 1 / 251

DALI manage group address(response string): 1 / 1 / 252

Group information

Address	Repetition	Address information	Target address	Remark	Light and ballast
A0			A0		
A1			A1		Light is bad
A2			A2		

Device address: 1.1.26 Remark Address count:3

Double Click to

Commission--- Ballasts Management

Current selected group:1

Lock Write Group off Group on Hint Drag Click ouput Flicker Close others Dimming

All devices percent: 0% Output

Max output: 100% Min output: 0%

0	1	2	3	4	5	6	7
8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55
56	57	58	59	60	61	62	63

G1	G9
G2	G10
G3	G11
G4	G12
G5	G13
G6	G14
G7	G15
G8	G16

Memberships/1

A0

Device address: 1.1.26 | Remark: | Current selected group:1

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DALI manage group

Basic information

Physical address:

1 . 1 . 26

Remark:

DALI manage group address(request string):

1 / 1 / 251

DALI manage group address(response string):

1 / 1 / 252

Modify

Group information



Address	Repetition	Address information	Target address	Remark	Light and ballast
A0		Group1	A0		
A1		Group1	A1		Light is bad
A2			A2		

Device address: 1.1.26 | Remark | Address count:3

1.1.1 M/DALI.1 > Broadcast

General	Colour Control Type	<input type="radio"/> None <input checked="" type="radio"/> Colour Temperature
Functions	Brightness value when switch ON	100%(255)
Broadcast	Colour temperature value when switch ON	3000
-B:status	Colour control behavior when switch ON	<input type="radio"/> Last Colour Temperature <input checked="" type="radio"/> Colour Temperature Above
-B:scenes	Permit be turned on via relative dimming telegram	<input type="radio"/> No <input checked="" type="radio"/> Yes
Channels	Switching ON(1bit):time for reach switch on	2.0s
>Channel 1	Switching OFF(1bit):time for reach switch off	2.0s
-Ch1:status	Relative dimming(4bits):time for 0..100%	5.6s
-Ch1:scenes	Absolute dimming(8bits):time for reach set brightness value	2.0s
>Channel 2	Mode	-----
-Ch2:status	Operation mode	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
-Ch2:scenes	Scene	-----
>Channel 3	Brocast Secnes	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-Ch3:status	Recovery:	-----
-Ch3:scenes	Broadcast Scenes For Recovery	Disable

Group Objects / Parameter

On the broadcast parameters page, select to enable color temperature control while keeping other parameters as default. On the status page, select the status of the switch, dimming, and color temperature, and provide feedback only after status changed.

1.1.1 M/DALI.1 > -B:status

General	Status: -----
Functions	Response of switch status(1bit) <input type="radio"/> Disable <input checked="" type="radio"/> Enable
Broadcast	-Send status After changed
-B:status	-Switch status value <input checked="" type="radio"/> '1'-(ON lamps>0),'0'-(ON lamps=0) <input type="radio"/> '0'-(ON lamps>0),'1'-(ON lamps=0)
-B:scenes	Response of brightness status(1byte) <input type="radio"/> Disable <input checked="" type="radio"/> Enable
Channels	-Send status After changed
>Channel 1	-Brightness status value Highest brightness of lamps
-Ch1:status	Response of colour temperature status (2byte) <input type="radio"/> Disable <input checked="" type="radio"/> Enable
-Ch1:scenes	-Send status After changed
>Channel 2	Lamp fault status <input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Ballast fault status <input checked="" type="radio"/> Disable <input type="radio"/> Enable

Set Group Address for the Broadcast switch,relative dimming, absolute dimming, CCT and their feedback.

	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Prio
🔗	11	Broadcast	Switch(1bit)	Broadcast Switch	6/1/21	1 bit	C	-	W	-	U	switch	Low
🔗	12	Broadcast	Relative dimming(4bits)	Broadcast Relative Dimming	6/1/22	4 bit	C	-	W	-	U	dimming c...	Low
🔗	13	Broadcast	Absolute dimming(1byte)	Broadcast Absolute Dimming	6/1/23	1 byte	C	-	W	-	U	percentag...	Low
🔗	14	Broadcast	Colour Temperature(2bytes)	Broadcast CCT	6/1/24	2 bytes	C	-	W	-	U	absolute c...	Low
🔗	15	Broadcast	Status(1bit)	Broadcast Switch Status	6/0/21	1 bit	C	R	-	T	-	switch	Low
🔗	16	Broadcast	Status(1byte)	Broadcast Ab dimming Status	6/2/23	1 byte	C	R	-	T	-	percentag...	Low
🔗	17	Broadcast	Status(2bytes)	Broadcast CCT Status	6/2/24	2 bytes	C	R	-	T	-	absolute c...	Low
🔗	20	Broadcast Scene 1..16	Call Broadcast Scene(1byte)			1 byte	C	-	W	-	-	scene cont...	Low

1.1.2 M/PTL4.1 > -->Light 1

General	Select type of light	CCT
System configuration	Light label	Dali Broadcast
Function configuration	Icon number	Light bulb
Button scene	Percentage	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Light	Color temperature(2 byte)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-->Light 1	Percentage status(1 byte)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	Color temperature status(2 byte)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

262	Light 1	Percentage(1byte)	Broadcast Absolute Dimming	6/1/23	1 byte	C - W T U	percentag...	Low
267	Light 1	Color temperature(2byte)	Broadcast CCT	6/1/24	2 bytes	C - W T U	time (min)	Low
269	Light 1	Percentage status(1byte)	Broadcast Ab dimming Status	6/2/23	1 byte	C - W T U	percentag...	Low
274	Light 1	Color temperature status	Broadcast CCT Status	6/2/24	2 bytes	C - W T U	time (min)	Low

After configuring the group address, we use the KNX Granite CCT type to call the broadcast control group address.

1.1.1 M/DALI.1 > >Group 1

General	Group 1 Name	Group 1
Functions	Colour Control Type	<input type="radio"/> None <input checked="" type="radio"/> Colour Temperature
Broadcast	Brightness value when switch ON	100%(255)
-B:status	Colour temperature value when switch ON	3000
-B:scenes	Colour control behavior when switch ON	<input type="radio"/> Last Colour Temperature <input checked="" type="radio"/> Colour Temperature Above
Groups	Permit be turned on via relative dimming telegram	<input type="radio"/> No <input checked="" type="radio"/> Yes
>Group 1	Switching ON(1bit):time for reach switch on	2.0s

1.1.1 M/DALI.1 > -G1:status

General	Status:	-----
Functions	Response of switch status(1bit)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Broadcast	-Send status	After changed
-B:status	-Switch status value	<input checked="" type="radio"/> '1'-(ON lamps>0),'0'-(ON lamps=0) <input type="radio"/> '0'-(ON lamps>0),'1'-(ON lamps=0)
-B:scenes	Response of brightness status(1byte)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Groups	-Send status	After changed
>Group 1	-Brightness status value	Highest brightness of lamps
-G1:status	Response of colour temperature status (2byte)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	-Send status	After changed

As mentioned in the previous section, the driver addresses have been grouped in the auxiliary software. If the drivers with driver addresses 0 and 1 are assigned to group 1, we can control the grouping of the driver addresses through the group control of the Dali module. For example, enabling group 1, enabling color temperature, and setting only after change type feedback.

21	Group 1	Switch(1bit)	Group 1 Switch	6/1/25	1 bit	C - W - U	switch	Low
22	Group 1	Relative dimming(4bits)	Group 1 Relative Dimming	6/1/26	4 bit	C - W - U	dimming c...	Low
23	Group 1	Absolute dimming(1byte)	Group 1 Absolute Dimming	6/1/27	1 byte	C - W - U	percentag...	Low
24	Group 1	Colour Temperature(2bytes)	Group 1 CCT	6/1/29	2 bytes	C - W - U	absolute c...	Low
25	Group 1	Status(1bit)	Group 1 Switch Status	6/2/25	1 bit	C R - T -	switch	Low
26	Group 1	Status(1byte)	Group 1 Ab Dimming Status	6/2/27	1 byte	C R - T -	percentag...	Low
27	Group 1	Status(2bytes)	Group 1 CCT Status	6/2/29	2 bytes	C R - T -	absolute c...	Low

1.1.2 M/PTL4.1 > -->Light 2

- General: Select type of light: CCT
- System configuration: Light label: Dali Group 1
- Function configuration: Icon number: Light bulb
- Percentage: Disable Enable
- Color temperature(2 byte): Disable Enable
- Percentage status(1 byte): Disable Enable
- Color temperature status(2 byte): Disable Enable

Light

-->Light 1

-->Light 2

Link the Group Address with KNX Granite

277	Light 2	Percentage(1byte)	Group 1 Absolute Dimming	6/1/27
282	Light 2	Color temperature(2byte)	Group 1 CCT	6/1/29
284	Light 2	Percentage status(1byte)	Group 1 Ab Dimming Status	6/2/27
289	Light 2	Color temperature status	Group 1 CCT Status	6/2/29

Commission---Channel Control



After enabling the Channel control, a single Ballast's address can be controlled to adjust the brightness and color temperature of a certain lamp , and the drive address of the circuit can be set. The default is that ballast address A0 corresponds to channel 1, ballast address A1 corresponds to channel 2, and so on. Here, I set the ballast address A1 for channel 1, enable CCT, and provide feedback after status changed.

1.1.1 M/DALI.1 > >Channel 1

-B:scenes	Channel 1 Name	Channel 1
Groups	Address of device	A1
>Group 1	Colour Control Type	<input type="radio"/> None <input checked="" type="radio"/> Colour Temperature
-G1:status	Brightness value when switch ON	100%(255)
-G1:scenes in master	Colour temperature value when switch ON	3000
-G1:scenes in ballast	Colour control behavior when switch ON	<input type="radio"/> Last Colour Temperature <input checked="" type="radio"/> Colour Temperature Above
>Group 2	Permit be turned on via relative dimming telegram	<input type="radio"/> No <input checked="" type="radio"/> Yes
-G2:status	Switching ON(1bit):time for reach switch on	2.0s
-G2:scenes in master	Switching OFF(1bit):time for reach switch off	2.0s
-G2:scenes in ballast	Relative dimming(4bits):time for 0..100%	5.6s
Channels	Absolute dimming(8bits):time for reach set brightness value	2.0s
>Channel 1	Mode	-----
	Operation mode	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

1.1.1 M/DALI.1 > -Ch1:status

-B:scenes	Status:	-----
Groups	Response of switch status(1bit)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
>Group 1	-Send status	After changed
-G1:status	-Switch status value	<input checked="" type="radio"/> '1'-ON,'0'-OFF <input type="radio"/> '0'-ON,'1'-OFF
-G1:scenes in master	Response of brightness status(1byte)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-G1:scenes in ballast	-Send status	After changed
>Group 2	-Brightness status value	Brightness of lamps
-G2:status	Response of colour temperature status (2byte)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-G2:scenes in master	-Send status	After changed
-G2:scenes in ballast	Lamp fault status	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Channels	Ballast fault status	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
>Channel 1	Status recovery:	-----
	Brightness recovery	Disable
	Colour Temperature recovery	Disable
	Colour Temperature for recovery	3000
-Ch1:status		

Set Group Address for the Channel 1 switch, relative dimming, absolute dimming, CCT and their feedback.

197	Channel 1	Switch(1bit)	Channel 1 Switch	6/1/30	1 bit	C - W - U	switch	Low
198	Channel 1	Relative dimming(4bits)	Channel 1 Relative Dimming	6/1/31	4 bit	C - W - U	dimming c...	Low
199	Channel 1	Absolute dimming(1byte)	Channel 1 Absolute Dimming	6/1/32	1 byte	C - W - U	percentag...	Low
200	Channel 1	Colour Temperature(2bytes)	Channel 1 CCT	6/1/33	2 bytes	C - W - U	absolute c...	Low
201	Channel 1	Status(1bit)	Channel 1 Switch Status	6/2/30	1 bit	C R - T -	switch	Low
202	Channel 1	Status(1byte)	Channel 1 Ab Dimming Status	6/2/32	1 byte	C R - T -	percentag...	Low
203	Channel 1	Status(2bytes)	Channel 1 CCT Status	6/2/33	2 bytes	C R - T -	absolute c...	Low

1.1.2 M/PTL4.1 > -->Light 3

General	Select type of light	CCT
System configuration	Light label	Dali Channel 1
Function configuration	Icon number	Light bulb
Button scene	Percentage	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Light	Color temperature(2 byte)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-->Light 1	Percentage status(1 byte)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-->Light 2	Color temperature status(2 byte)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
-->Light 3		

Select CCT for the lighting type of the 4-inch screen, and enable the feedback options for percentage and color temperature

Link the group address of Channel 1 absolute dimming , CCT, percentage status, Color temperature status.

292	Light 3	Percentage(1byte)	Channel 1 Absolute Dimming	6/1/32	1 byte	C - W T U	percentag...	Low
297	Light 3	Color temperature(2byte)	Channel 1 CCT	6/1/33	2 bytes	C - W T U	time (min)	Low
299	Light 3	Percentage status(1byte)	Channel 1 Ab Dimming Status	6/2/32	1 byte	C - W T U	percentag...	Low
304	Light 3	Color temperature status	Channel 1 CCT Status	6/2/33	2 bytes	C - W T U	time (min)	Low

Scene Control can control the brightness and color temperature of a zone together.

Here we use Group Scene as an example. Enable color temperature control, set the brightness and color temperature values of group 1. Brightness Value 100%, color temperaure 3000k.

1.1.1 M/DALI.1 > -Scene 1 group

-Ch15:status	Group 1 colour control type	<input type="radio"/> None <input checked="" type="radio"/> Colour Temperature
-Ch15:scenes	Group 1 brightness value	100%(255) ▼
>Channel 16	Group 1 colour temperature	3000 ▲▼
-Ch16:status	Group 2 colour control type	<input checked="" type="radio"/> None <input type="radio"/> Colour Temperature
-Ch16:scenes	Group 2 brightness value	Inactive ▼
Scenes	Group 3 colour control type	<input checked="" type="radio"/> None <input type="radio"/> Colour Temperature
>Scene 1	Group 3 brightness value	Inactive ▼
-Scene 1 broadcast	Group 4 colour control type	<input checked="" type="radio"/> None <input type="radio"/> Colour Temperature
-Scene 1 group	Group 4 brightness value	Inactive ▼
	Group 5 colour control type	<input checked="" type="radio"/> None <input type="radio"/> Colour Temperature
	Group 5 brightness value	Inactive ▼

Go to group address page to set the group address for the Scene. As this scene is in the Dali module, we set group address for Call Group 1 Scene in Master.

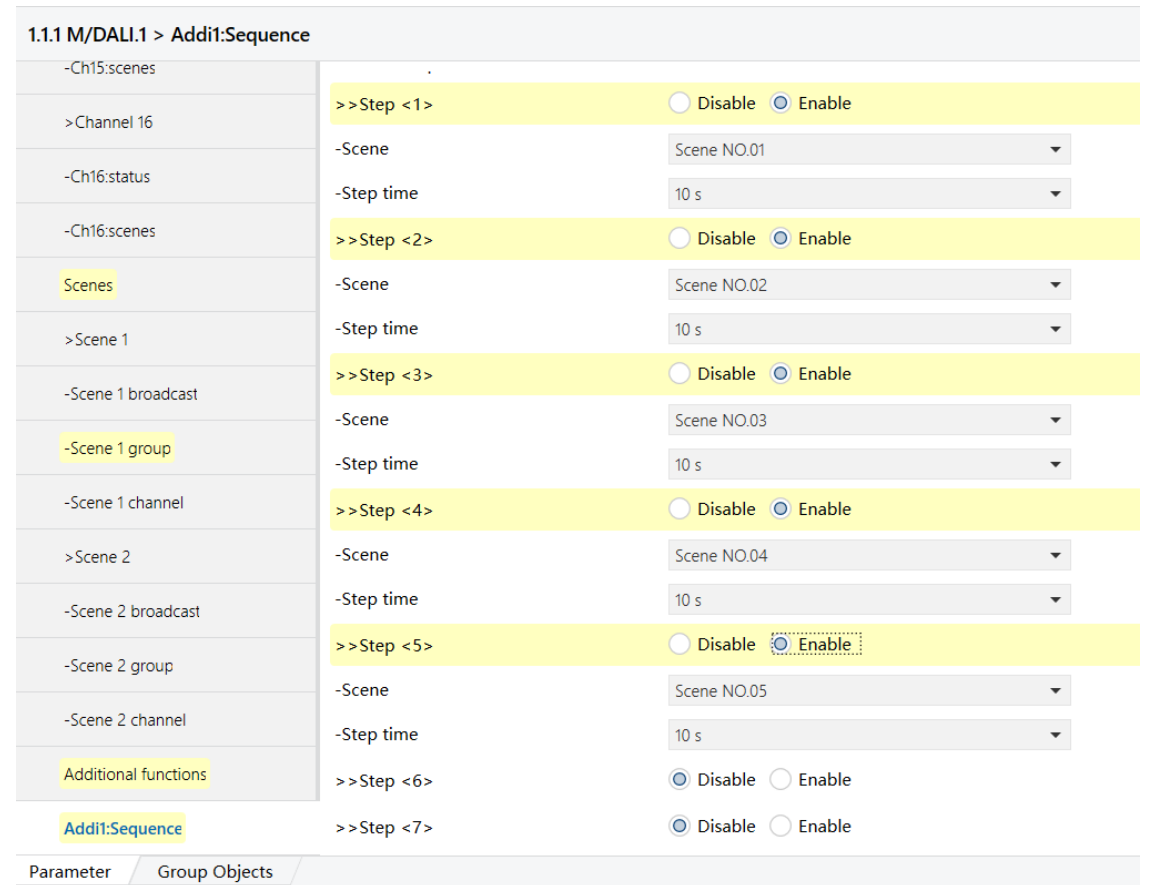
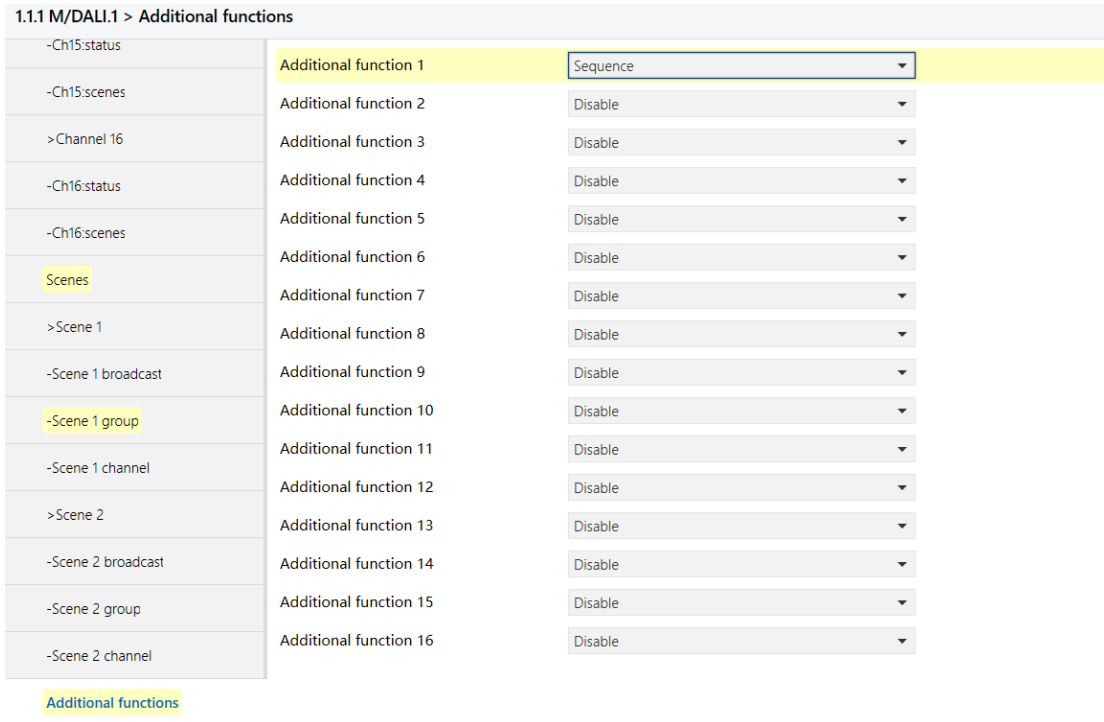
21	Group 1	Switch(1bit)	Group 1 Switch	6/1/25	1 bit	C - W - U	switch	Low
22	Group 1	Relative dimming(4bits)	Group 1 Relative Dimming	6/1/26	4 bit	C - W - U	dimming c...	Low
23	Group 1	Absolute dimming(1byte)	Group 1 Absolute Dimming	6/1/27	1 byte	C - W - U	percentag...	Low
24	Group 1	Colour Temperature(2bytes)	Group 1 CCT	6/1/29	2 bytes	C - W - U	absolute c...	Low
25	Group 1	Status(1bit)	Group 1 Switch Status	6/2/25	1 bit	C R - T -	switch	Low
26	Group 1	Status(1byte)	Group 1 Ab Dimming Status	6/2/27	1 byte	C R - T -	percentag...	Low
27	Group 1	Status(2bytes)	Group 1 CCT Status	6/2/29	2 bytes	C R - T -	absolute c...	Low
30	Group 1 Scene 1..16 In Master	Call Group 1 Scene In Master	Call Group 1 Scene in Master	6/1/34	1 byte	C - W - -	scene cont...	Low

Let's use DLP panel to control this scene.

1.1.3 DLP Panel M/DLP04.1 > Rocker A

General1	Rocker A work mode	<input type="radio"/> Independent button mode
General2	=====	<input checked="" type="radio"/> Combined button mode
Functions	Rocker A : operation mode	Scene controller
Rocker A	Call scene number of the left	Scene NO.01
Rocker B	Call scene number of the right	Scene NO.01

The Dali module has a sequence function that can be used for flexible control of light brightness and color temperature. Enable sequence functions in the Dali module's additional functions. Set brightness and color temperature of the lights for each scene (refer to the previous section). Here, 5 steps are opened to call up 5 scenes, as shown in the following figure:



THANKS