User Manual

MPT14 Controller(V1.0)

M/MPT14.1

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APPLICATION PROGRAM INFORMATION

HDL- MPT14controller(1.0)

Version: V1.0

KNX/EIB-BUS

Document Version: 1.0, Date: __10. Jan.2018___

Document History			
Version	Date	Comments	Author (English name)
1.0	10.1.2018	First issue	

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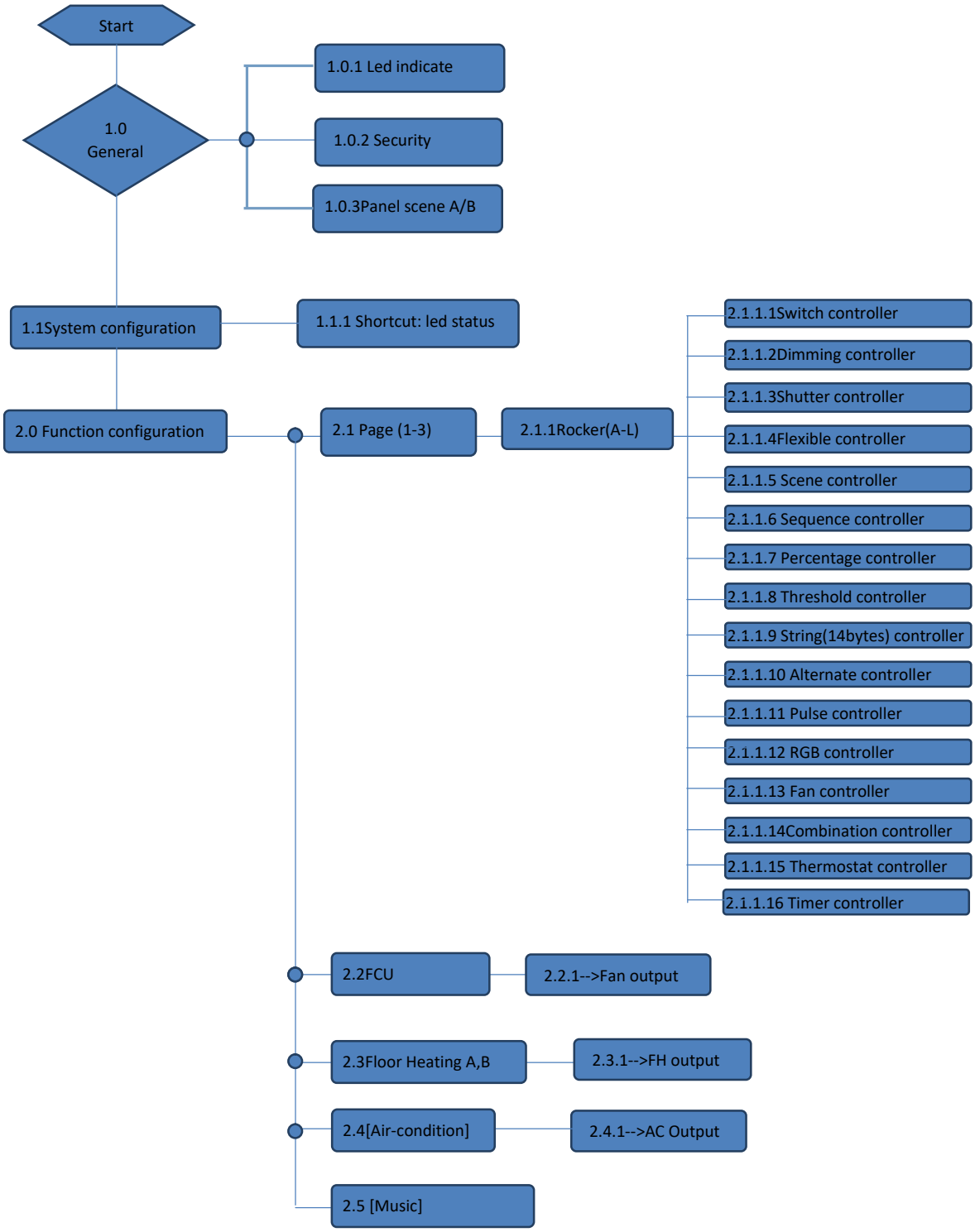
B. Function overview flowchart
C. Function description
D. Communication objects

A.

M/MPT14.1-A2 is HDL KNX / EIB wall switch Panel controller which has 3 pages for lighting and curtain control, one page for floor heating, one page for HVAC control, one page for audio.

B.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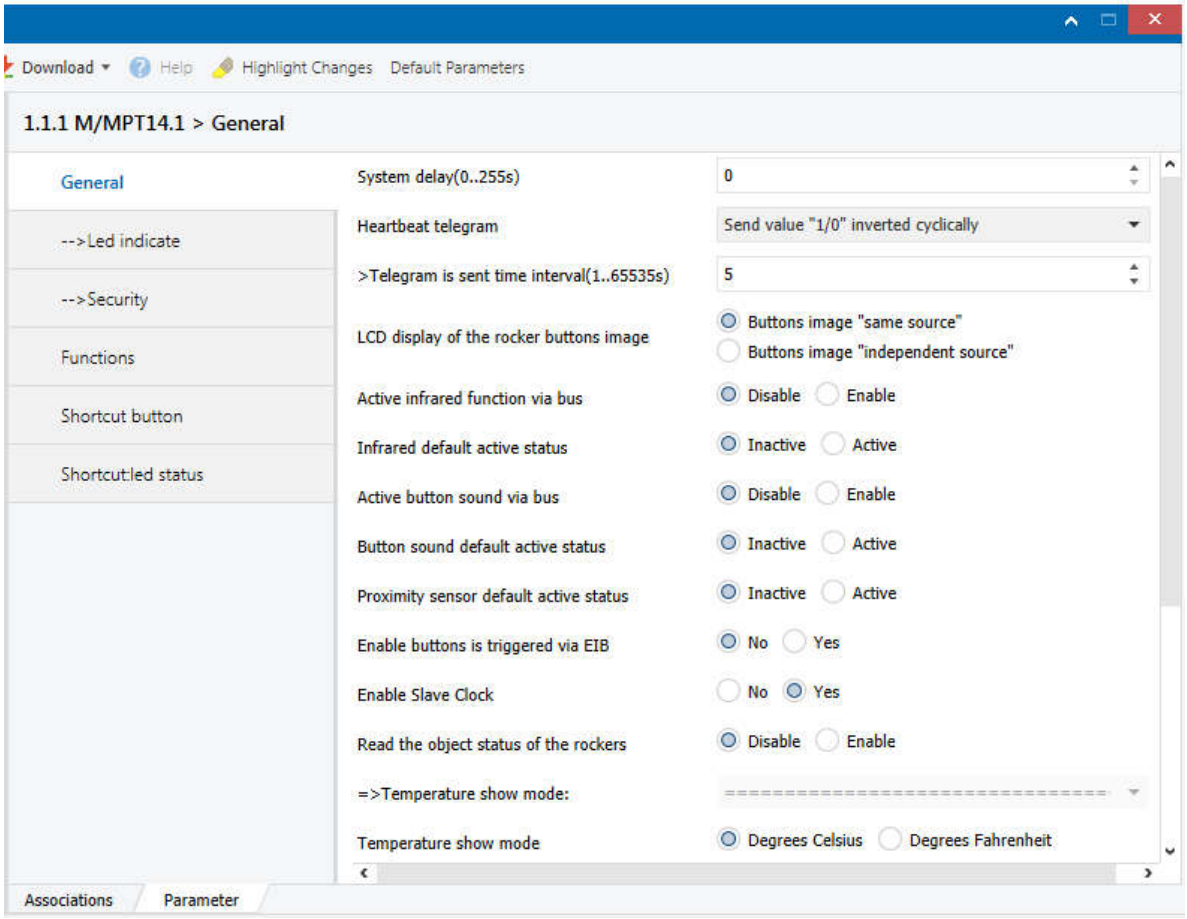
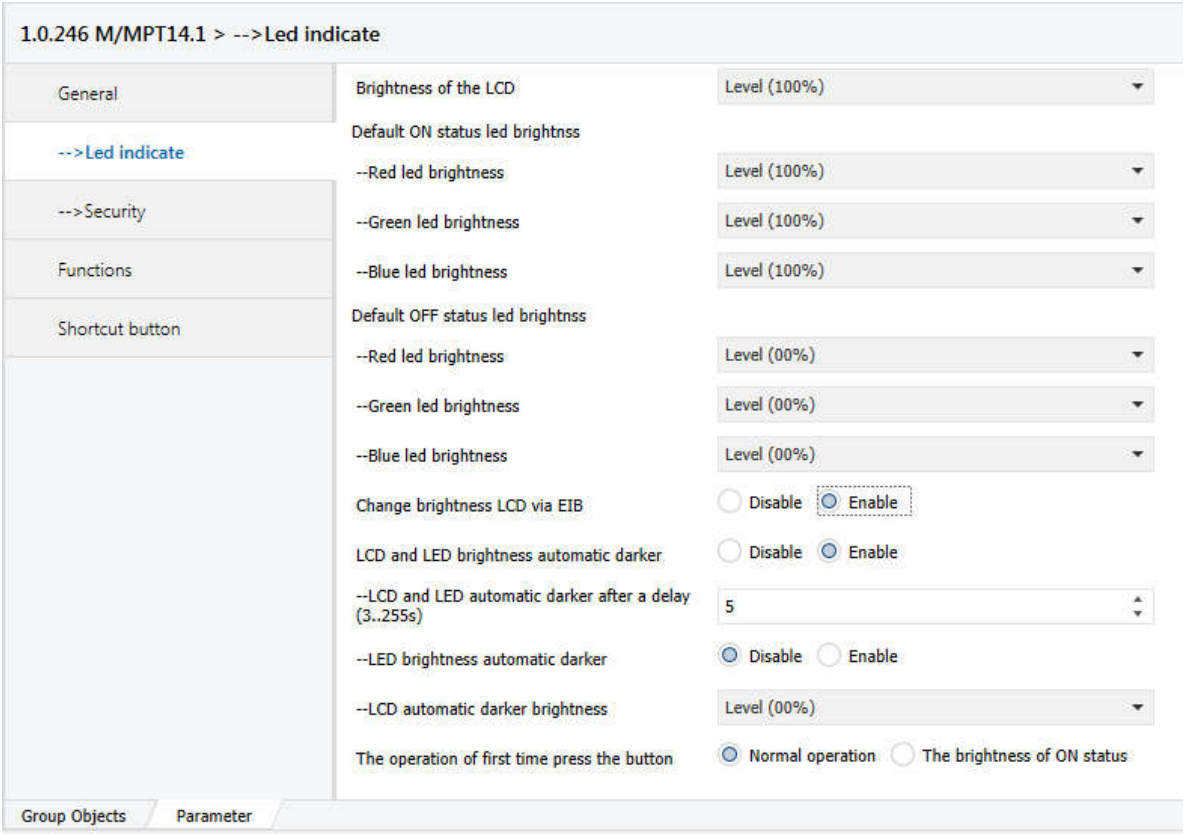
1.0General



No.	ETS-Parameter	Range (default)	Description
1	System delay(0...255)	-0...255	*Set the delay time can be operation after power on.*
2	Heartbeat telegram	-(Disable) -Send value"0" cyclically -Send value"1" cyclically -Sendvalue"1/0" inverted cyclically	*Defines which telegram should be sent to the bus.* *Disable: cannot send the heartbeat telegram* *Send value "0" cyclically： will send the telegram value "1" for heartbeat cyclically* *Send value "1" cyclically: will send the telegram value "1" for heartbeat cyclically* *Send value "1/0" inverted cyclically: will send the telegram value "1/0" for heartbeat inverted cyclically. If send the telegram value "1" at first, and then will send the telegram value "0"*
3	>Telegram is send time interval(1…65535s)	-1…(5)…65535	*Set the interval time for sending the telegram to the bus.*
4	LCD display of the rocker buttons image	-Buttons image "same source" -Buttons image "Independentsource"	
5	Active infrared function via bus	-Enable -Disable	*Enable/Disable Active infrared function via bus.*

6	Infrared default active status	-Inactive -Active	*Set the active status of Infrared.*
7	Active button sound via bus	-Enable -Disable	*Enable/Disable Active infrared function via bus.*
8	Button sound default active status	-Inactive -Active	*Set the active status of Button sound.*
9	Proximity sensor default active status	-Inactive -Active	*Set the status of proximity sensor.*
10	>Proximity sensor sensitive	1%…100%	*Set the proximity sensor sensitive. the bigger value the more sensitive.*
11	>Recovery the LED and LCD brightness	-Enable -Disable	*Whether recovery brightness when proximity the panel.*
12	>Enable send to bus	-No -Yes	*whether send to bus when proximity the panel or darkness.*
13	>Send to bus	-Invalid -Toggle -ON -OFF	*It will sent the statues to bus.*
14	->Send to bus after delay time	-Invalid -Toggle -ON -OFF	*It will send the status to the bus again after delay time*
15	->Delay time(5...255s)	5..255	
16	Enable buttons is triggered via EIB	-No -Yes	*Enable/Disable buttons triggered via EIB. '1''0': the button will triggered when the panel receive the setting telegram.*
17	>The button trigger condition	'0'-trigger '1'-trigger	
18	>Enable rockerA..D buttons is triggered via EIB	-No -Yes	
19	>Enable rockerE..H buttons is triggered via EIB	-No -Yes	
20	>Enable rockerI..L buttons is triggered via EIB	-No -Yes	
21	Enable Slave Clock	-No -Yes	*Whether to enable the function of setting clock*
22	Read the object status of the rockers	-Enable -Disable	*Disable/Enable read the object status of the rockers*
23	>Delay for read the object status(5..255s)	5..255	*Set the delay time to read the rockers status*
=>Temperature show mode:			
24	Temperature show mode	-Degrees Celsius -Degrees Fahrenheit	*Set the temperature mode.*
25	The local temperature correction(-5C...+5C)	-5C...+5C	*Set the correction value of temperature, it Used to correct the mistake of testing temperature and real temperature.*
26	Local temperature report	-No -Yes	*Yes: it will report to the bus when the local temperature in the setting range.* *No: it doesn't report to the bus.*
27	>Temperature report mode	-Report when changed -Report cyclic	*Set the report mode when local temperature report to the bus.*
28	->Differential value for report(0.1'C)	1..50	*Set the temperature differential value.Report when the temperature change value exceeds the differential value.*
29	Panel scene A	-Enable -Disable	*Enable/Disable panel scene function.*
30	Panel scene B		

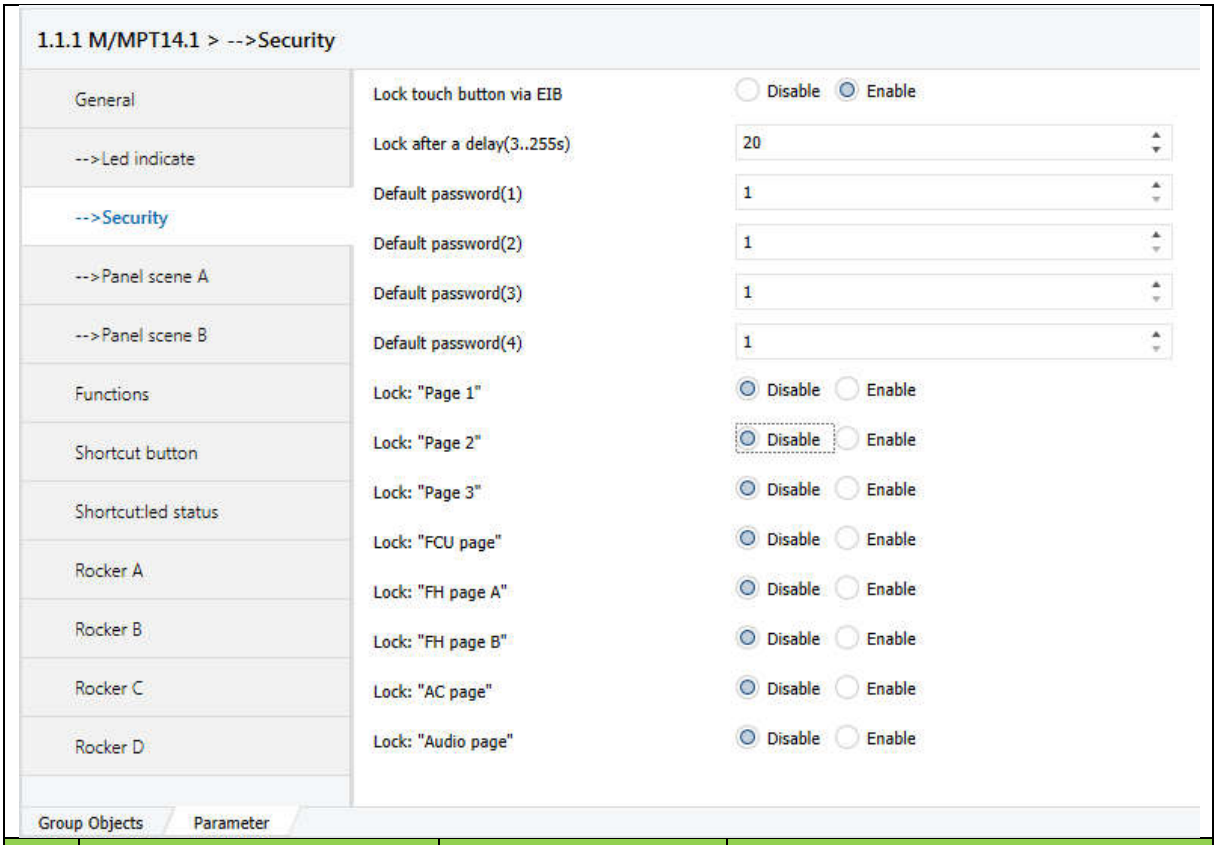
1.0.1-->Led indicate



No.	ETS-Parameter	Range (default)	Description
1	Brightness of the LCD	Level (00%) … Level (100%)	*Set the brightness of LCD*
Default ON status led brightness			
2	--Red led brightness	Level (00%) … Level (100%)	*Set the brightness of the three-color led*
3	--Green led brightness	Level (00%) … Level (100%)	
4	--Blue led brightness	Level (00%) … Level (100%)	
Default OFF status led brightness			
5	--Red led brightness	Level (00%) … Level (100%)	*Set the brightness of the three-color led*
6	--Green led brightness	Level (00%) … Level (100%)	
7	--Blue led brightness	Level (00%) … Level (100%)	
8	Change brightness LCD via EIB	-Enable -Disable	*Whether change the brightness via EIB.*

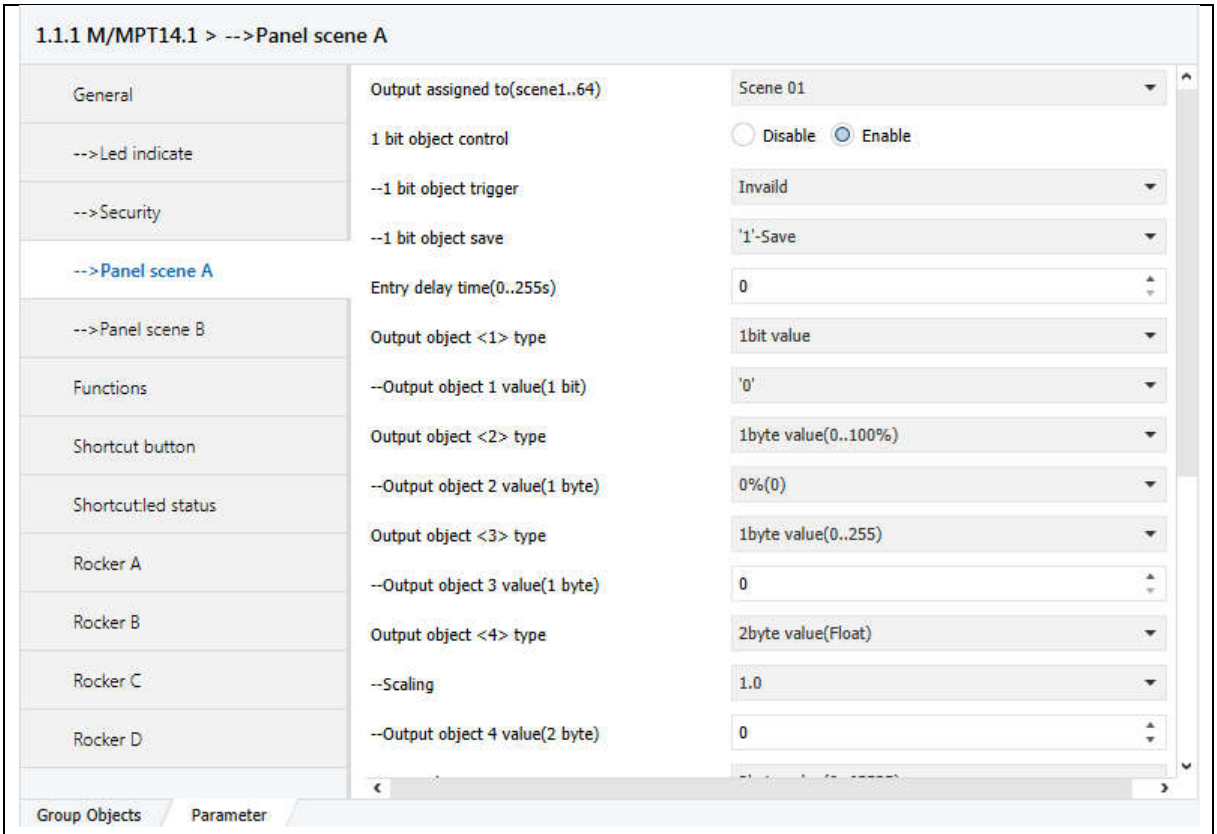
9	LCD and LED brightness automatic darker	-Enable -Disable	*Enable/Disable LCD and LED brightness automatic darker.*
10	--LCD and LED automatic darker after adelay(3..255s)	3..255	*Set the delay time for the LCD and LED to dim automatically*
11	--LED brightness automatic darker	-Enable -Disable	*Enable/Disable LED brightness automatic darker*
12	--LCD automatic darker brightness	Level (00%) … Level (100%)	*Set the brightness of LED*
Default auto ON status led brightness			
13	--Red led brightness	Level (00%) … Level (100%)	*Set the brightness of the three-color led*
14	--Green led brightness	Level (00%) … Level (100%)	
15	--Blue led brightness	Level (00%) … Level (100%)	
Default auto OFF status led brightness			
16	--Red led brightness	Level (00%) … Level (100%)	*Set the brightness of the three-color led*
17	--Green led brightness	Level (00%) … Level (100%)	
18	--Blue led brightness	Level (00%) … Level (100%)	
19	The operation of first time press the button	-Normal operation -The brightness of ON status	

1.0.2 -->Security



No.	ETS-Parameter	Range (default)	Description
1	Lock touch button via EIB	-Enable -Disable	*Enable/Disable Lock touch button via EIB.*
2	Lock after a delay(3..255s)	-3..255	*Set the time for auto lock*
3	Default password(1)	-1…8	*Set the password.*
4	Default password(2)		
5	Default password(3)		
6	Default password(4)		
7	Lock: "Page 1"	-Enable -Disable	*Set whether to lock the function page.*
8	Lock: "Page 2"		
9	Lock: "Page 3"		
10	Lock: "FCU page"		
11	Lock: "FH page A"		
12	Lock: "FH page B"		
13	Lock: "AC page"		
14	Lock: "Audio page"		

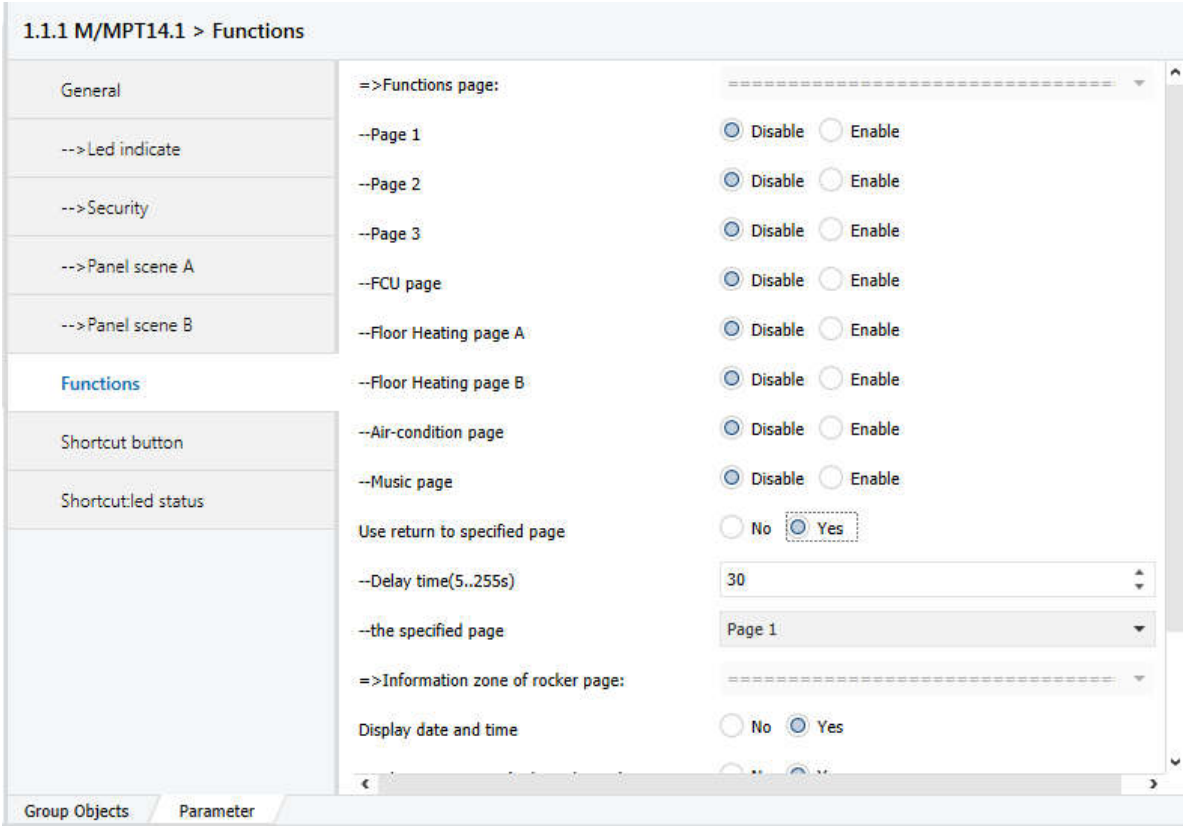
1.0.3-->Panel scene A



No.	ETS-Parameter	Range (default)	Description
1	Output assigned to(scene1..64)	-Scene 01 ... -Scene 64	*Set the scene of output.*
2	1 bit object control	-Enable -Disable	*Enable/disable for 1 bit object control*
3	--1 bit object trigger	-Invaild -'1'-Triggle -'0'-Triggle -'0/1'-Triggle	*Set the telegram value for 1 bit object control* *-"1"-Trigger: if receives telegram value "1", will trigger the object control* *- "0"-Trigger: if receives telegram value "0", will trigger the object value* *-"0/1"-Trigger: if receives telegram value "0/1', will trigger the object value*
4	--1 bit object save		*Save the object.* *Set the telegram value for 1 bit object save* *-"1"-Trigger: if receives telegram value "1", will trigger the object save* *- "0"-Trigger: if receives telegram value "0", will trigger the object save* *-"0/1"-Trigger: if receives telegram value "0/1', will trigger the object save*
5	Entry delay time(0..255s)	0..255	*Set the delay time for entry the scene*
6	Output object <1> type	-Invaild -1bit value -1byte value(0..100%) -1byte value(0..255) -2byte value(Float) -2byte value(0..65535)	*Set the value type for output object*

		-3byte value(RGB)	
7	--Output object 1 value(1 bit)	-'0' -'1' -'0/1'	*Set the telegram value for output objects*
8	--Output object 1 value(1 byte)	-0%(0)…100%(255)	*Set the parameter for output objects*
9	--Output object 1 value(1 byte)	-0 … 255	*Set the percentage for output objects*
10	--Scaling	-0.01,0.1,1.0	*Set the parameter for scaling*
11	--Output object 1 value(2 byte)	-20000 … 20000	*Set the parameter for output objects*
12	--Output object 1 value(2 byte)	-0 … 65535	*Set the parameter for output objects*
13	--Output object 1 value(3 byte:R)	-0 … 255	*Set the parameter for 3byte: R*
14	--Output object 1 value(3 byte:G)		*Set the parameter for 3byte: G*
15	--Output object 1 value(3 byte:B)		*Set the parameter for 3byte: B*
Output object 2-10 are same to objects 1.			

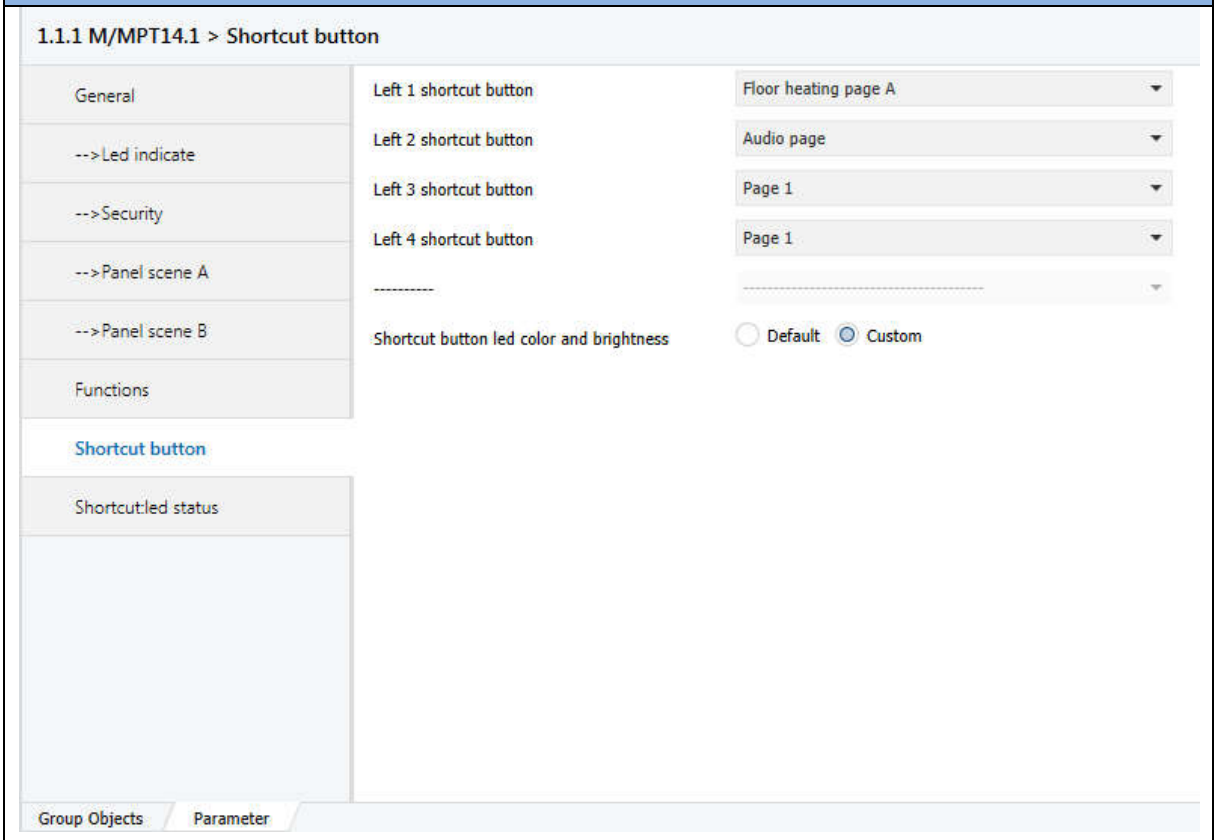
2.0Function configuration



No.	ETS-Parameter	Range (default)	Description
=>Functions page:			
1	--Page 1 … --Page 3	-Enable -Disable	*Enable / Disable the page function.* *If enable, the panel will be displayed, otherwise it will not be displayed.*
2	--FCU page		
3	--Floor Heating page A		

4	--Floor Heating page B		
5	--Air-condition page		
6	--Music page		
7	Use return to specified page	-No -Yes	*Whether to use the return to the specified page.*
=>Information zone of rocker page:			
8	Display date and time	-No -Yes	*Whether display the date and time.*
9	Display temperature(Celsius degree)	-No -Yes	*Whether display temperature.*
10	Display temperature(Celsius degree)	-Local sensor -Via EIB	*Set the source of temperature.*
11	Scrolling information displayed timeinterval(5..255s)	5 … 255	*Set the scrolling information displayed time interval*

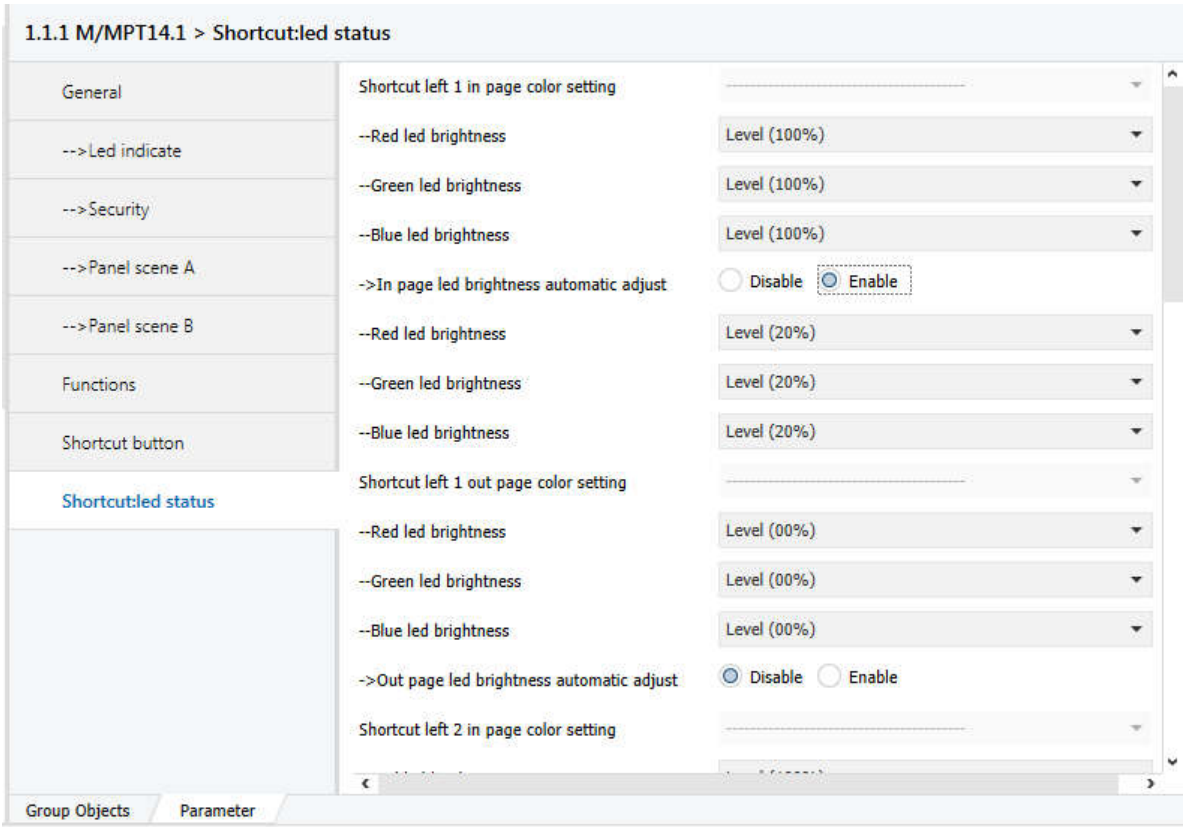
1.1Shortcut button



No.	ETS-Parameter	Range (default)	Description
1	Left 1 shortcut button	-Invalid -page 1…page 3 -FCU page -Floor heating page A -Floor heating page B -Air-Condition page -Audio page	*Set the shortcut button corresponds to which function*
2	Left 2 shortcut button		
3	Left 3 shortcut button		
4	Left 4 shortcut button		

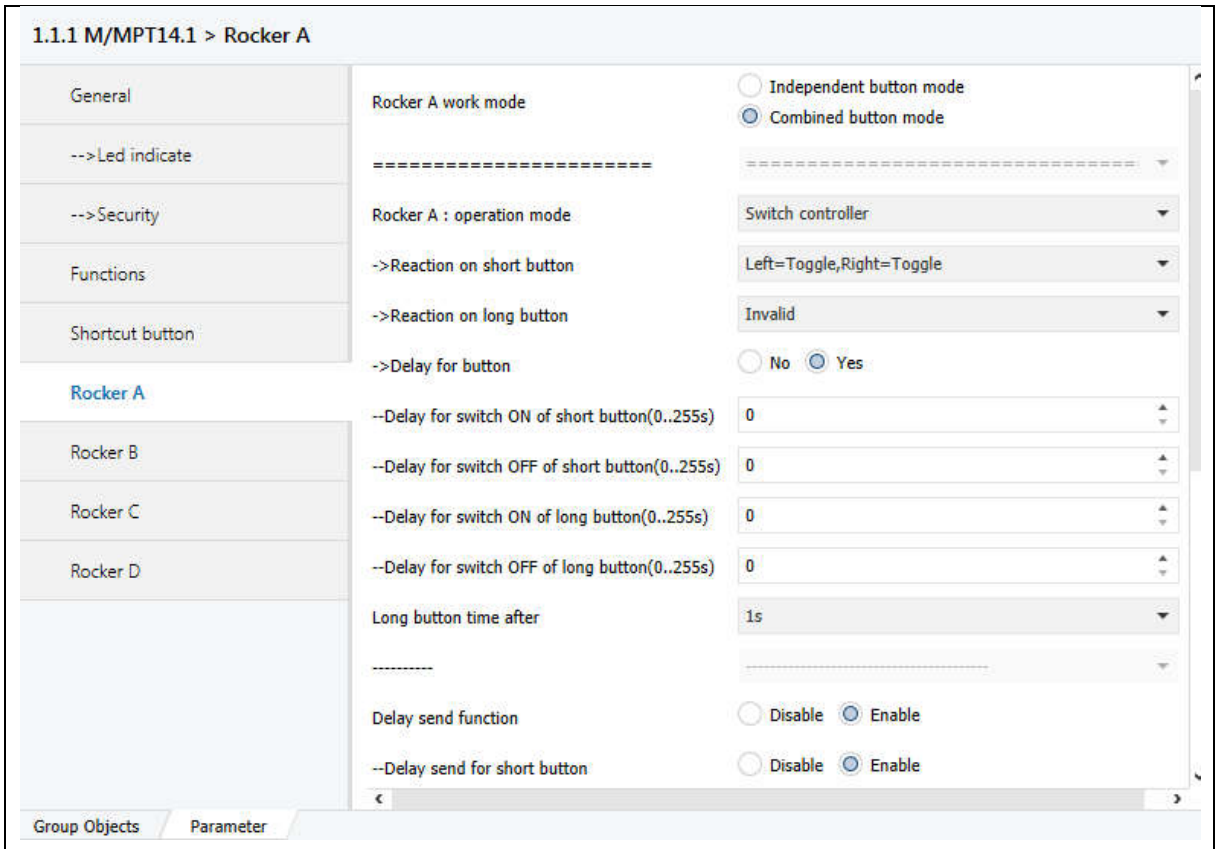
5	Shortcut button led color and brightness	-Default -Custom	*Default/Customshortcut button led color and brightness*

1.1.1Shortcut:led status



No.	ETS-Parameter	Range (default)	Description
Shortcut left 1 in page color setting			
1	--Red led brightness	Level (00%) … Level (100%)	*Set the brightness of the three-color led.*
2	--Green led brightness		
3	--Blue led brightness		
4	->In page led brightness automatic adjust	-Disable -Enable	*Disable/Enable In page led brightness automatic adjust.*
5	--Red led brightness	Level (00%) … Level (100%)	*Set the brightness of the three-color led.*
6	--Green led brightness		
7	--Blue led brightness		
Shortcut left 1 out page color setting			
8	--Red led brightness	Level (00%) … Level (100%)	*Set the brightness of the three-color led.*
9	--Green led brightness		
10	--Blue led brightness		
11	->Out page led brightness automatic adjust	-Disable -Enable	*Disable/Enable In page led brightness automatic adjust.*
12	--Red led brightness	Level (00%) … Level (100%)	*Set the brightness of the three-color led.*
13	--Green led brightness		
14	--Blue led brightness		
Shortcut 2-4 are same to Shortcut 1.			

2.1.1.1Switch controller



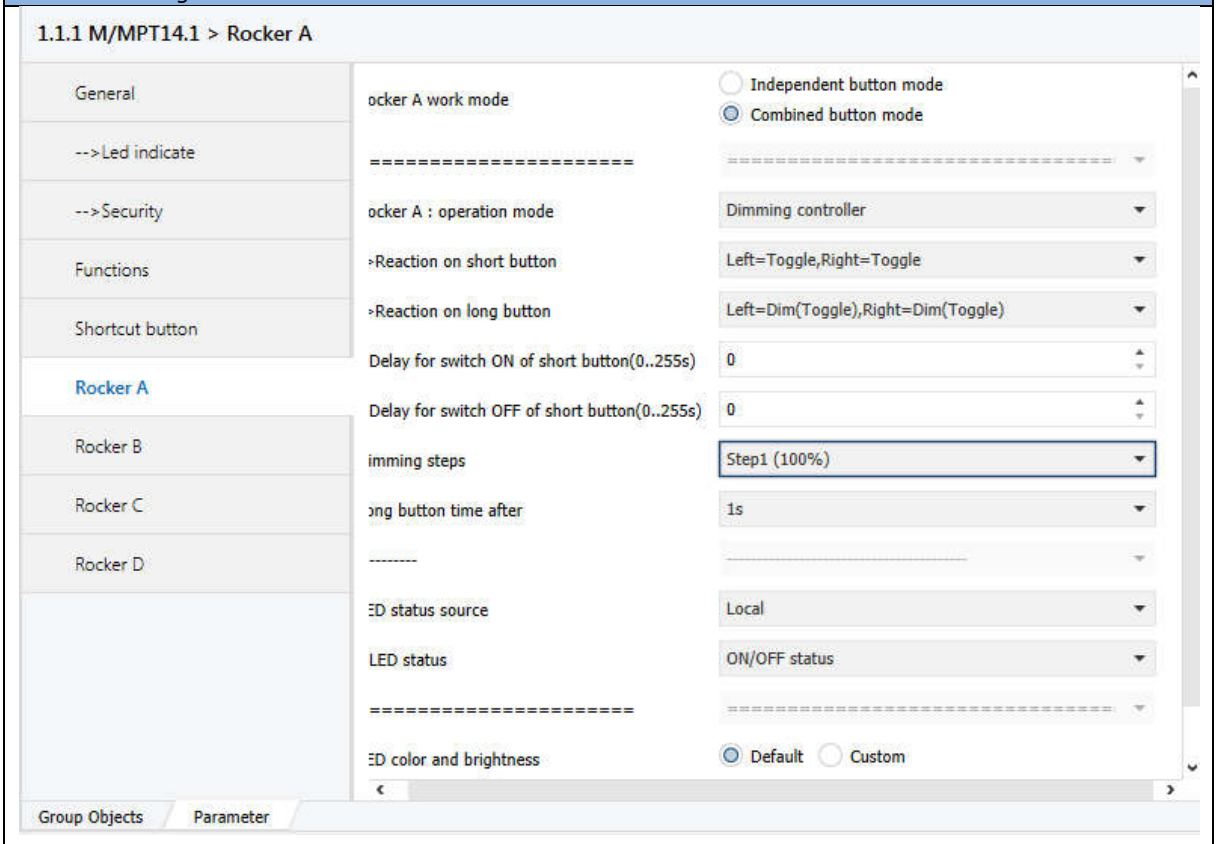
No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent* *Combined button mode: Left and right buttons for a pair*
2	->Reaction on short button	-Invalid -left=Toggle,Right=Toggle -left=ON,Right=OFF -left= OFF,Right= ON -left=ON,Right=ON -left= OFF,Right= OFF	*Set the function of short press action. When short press the cell*
3	->Reaction on long button		*Set the function of Long press action. When Long press the cell*
4	->Delay for button	-No -Yes	*Whether delay control the object when press the button.*
5	--Delay for switch ON of short button(0...255s)	-0 … 255	*Set the delay time after control the button.*
6	--Delay for switch OFF of short button(0…255s)		
7	--Delay for switch ON of long button(0…255s)		
8	--Delay for switch OFF of long button(0…255s)		
9	Long button time after	-1s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects.* *This parameter distinguish between long*

			press and short press

10	Delay send function	-Disable -Enable	*Disable/Enable delay send function.*
11	--Delay send for short button		*Set the condition of delay send another object.*
12	--Delay send for long button		
13	--Delay send when button object value:	-ON -OFF -ON/OFF	
14	--Delay send value:	-ON -OFF -Toggle -The same as button object	
15	--Send after a delay(0...255s):	0 … 255	

16	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
17	--LED status	-Flashing,then ON -Flashing,then OFF -Flashing,then status -ON/OFF status	*Set the status of the state and LED lights.*
==========			
18	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.2Dimming controller

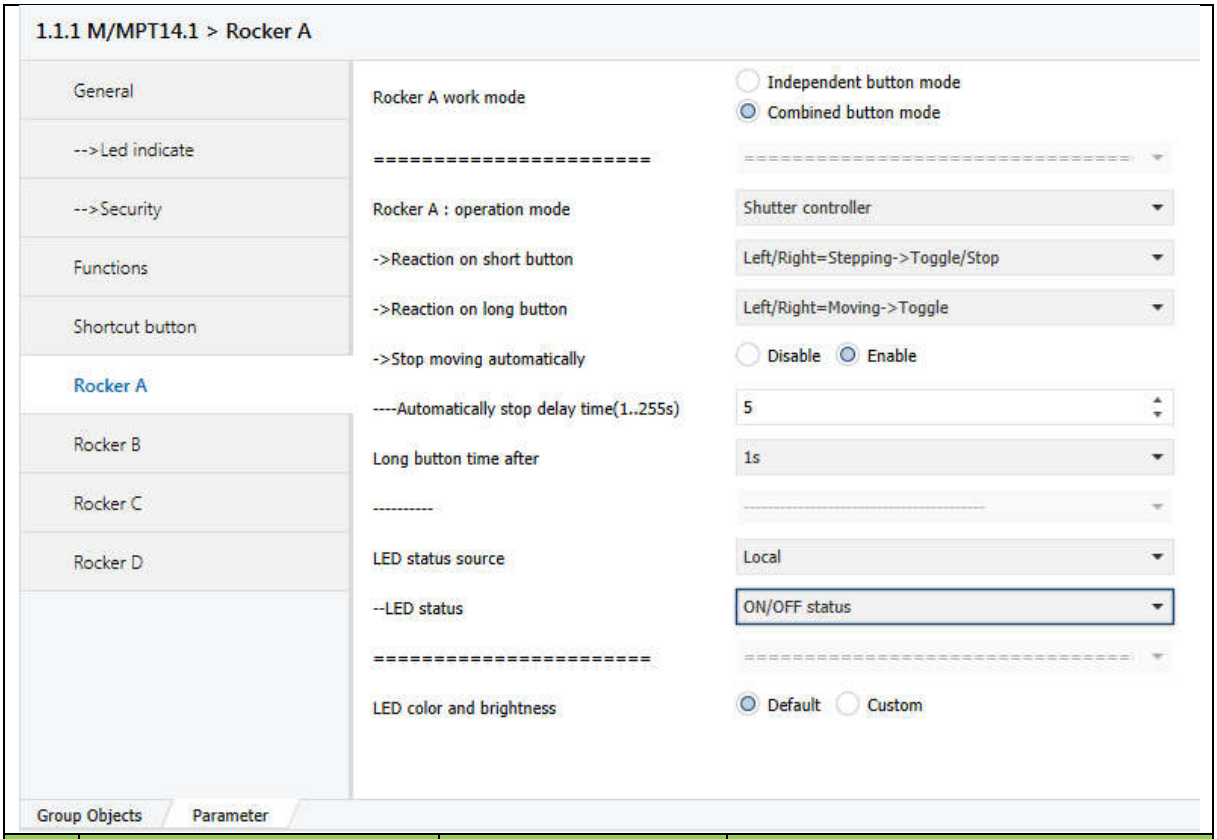


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button	*Set the Rocker work mode.*

		mode -Combined button mode	*Independent button mode: Each button is independent* *Combined button mode: Left and right buttons for a pair*
2	->Reaction on short button	-Invalid - left=Toggle,Right=Toggle -left=ON,Right=OFF -left= OFF,Right= ON -left=ON,Right=ON -left= OFF,Right= OFF	*Set the function of short press action.* *When short press the cell*
3	->Reaction on long button		*Set the function of Long press action.* *When Long press the cell*
4	->Delay for button	-No -Yes	*Whether delay control the object when press the button.*
5	--Delay for switch ON of short button(0...255s)	-0 … 255	*Set the delay time after control the button.*
6	--Delay for switch OFF of short button(0…255s)		
7	Dimming steps	-Step1(100%) … -Step7(1.56%)	*Set the step of dimming.*
8	Long button time after	-0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects.* *This parameter distinguish between long press and short press*

16	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
17	--LED status	-Flashing,then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
18	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.3Shutter controller

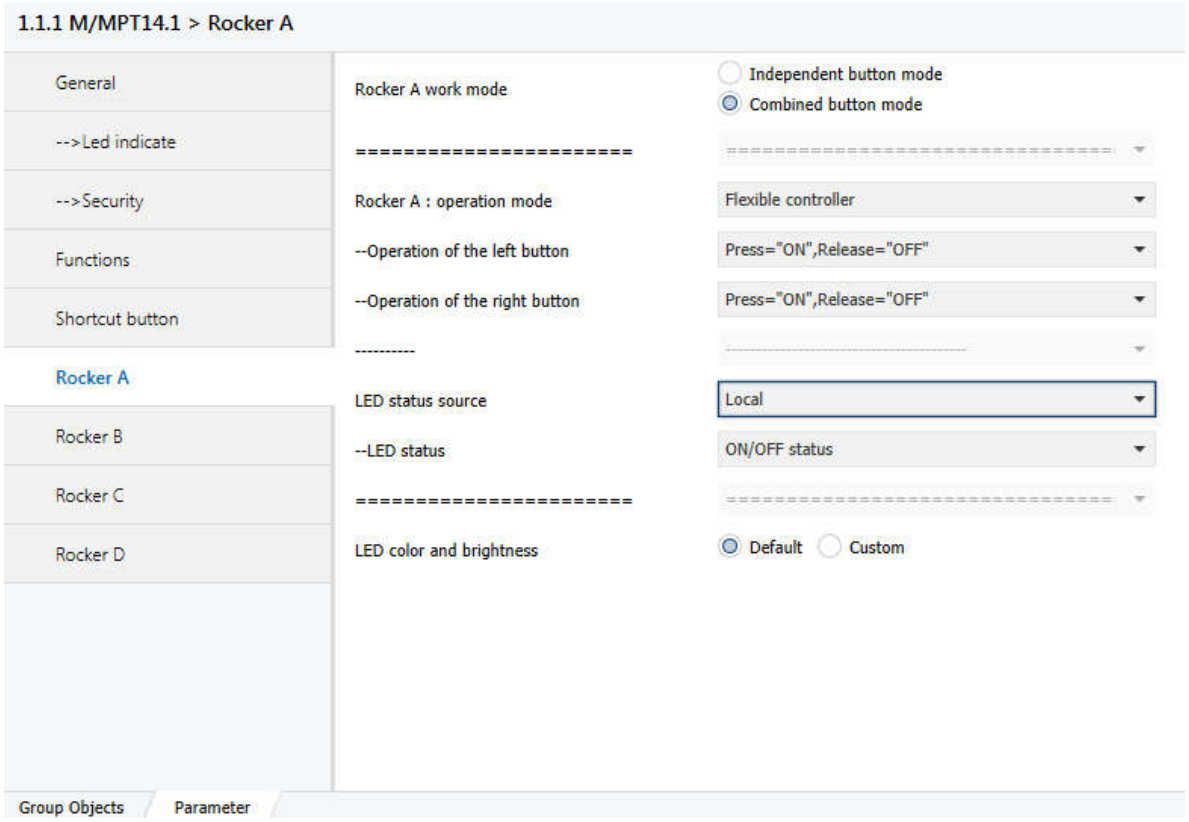


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent.* *Combined button mode: Left and right buttons for a pair.*
2	->Reaction on short button	-Invalid … -Left/Right=Stepping->Toggle/step	*Set the function of short press action.* *When short press the cell.*
3	->Reaction on long button	-Invalid … -Press:Left/Right=Move->Toggle;Release:stop	*Set the function of Long press action.* *When Long press the cell.*
4	->Stop moving automatically	-Disable -Enable	*Whether or not auto stop.*
5	----Automatically stop delay time(1..255s)	1 … 255	
6	Long button time after	0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects.* *This parameter distinguish between long press and short press*

7	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
8	--LED status	-Flashing,then ON -Flashing,then OFF -Flashing,then status -ON/OFF status	*Set the status of the state and LED lights.*

		-Flashing,then ON	
==========			
9	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.4 Flexiblecontroller

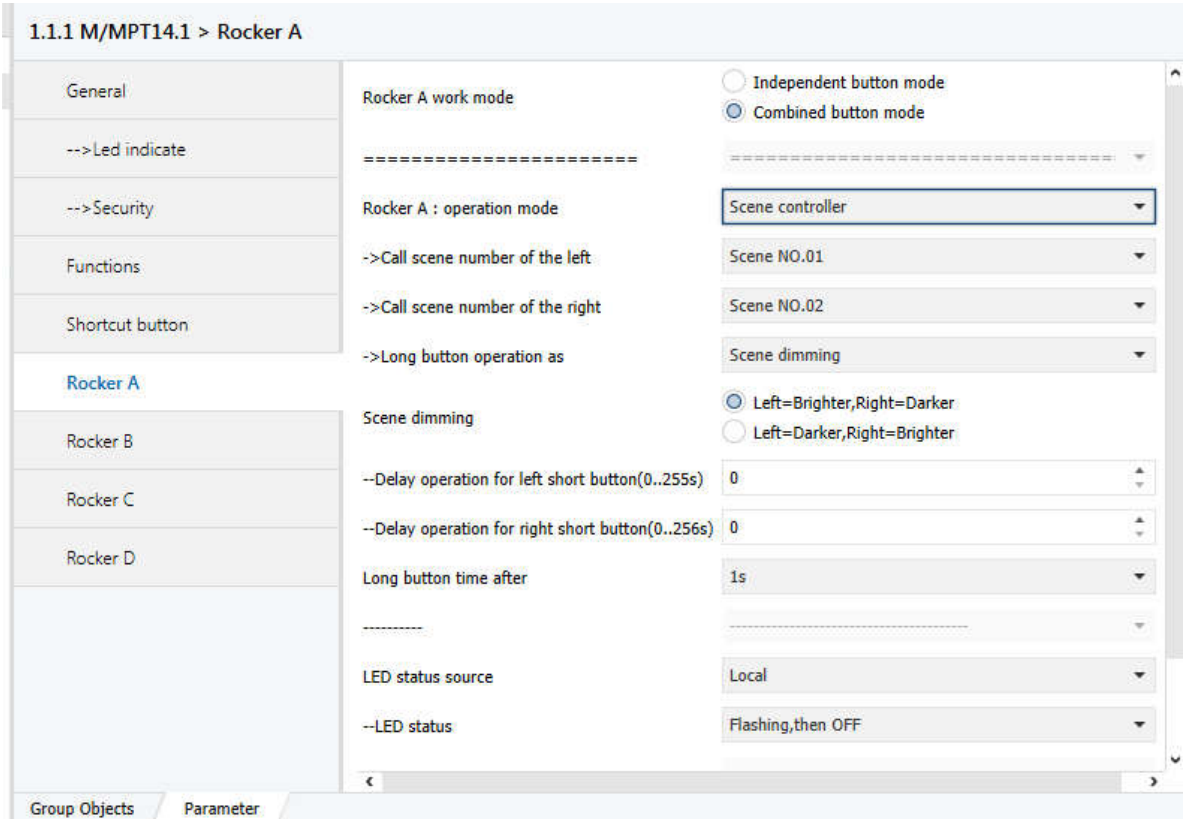


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent* *Combined button mode: Left and right buttons for a pair*
2	--Operation of the left button	-Invalid … -Press=”ON”,Release =”OFF”	*The function of the left button when press action.*
3	--Operation of the right button	-Invalid … -Press=”ON”,Release =”OFF”	*The function of the right button when press action.*

4	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
5	--LED status	-Flashing,then ON -Flashing,then OFF -Flashing,then status -ON/OFF status	*Set the status of the state and LED lights.*

		-Flashing,then ON	
==========			
6	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.5 Scenecontroller

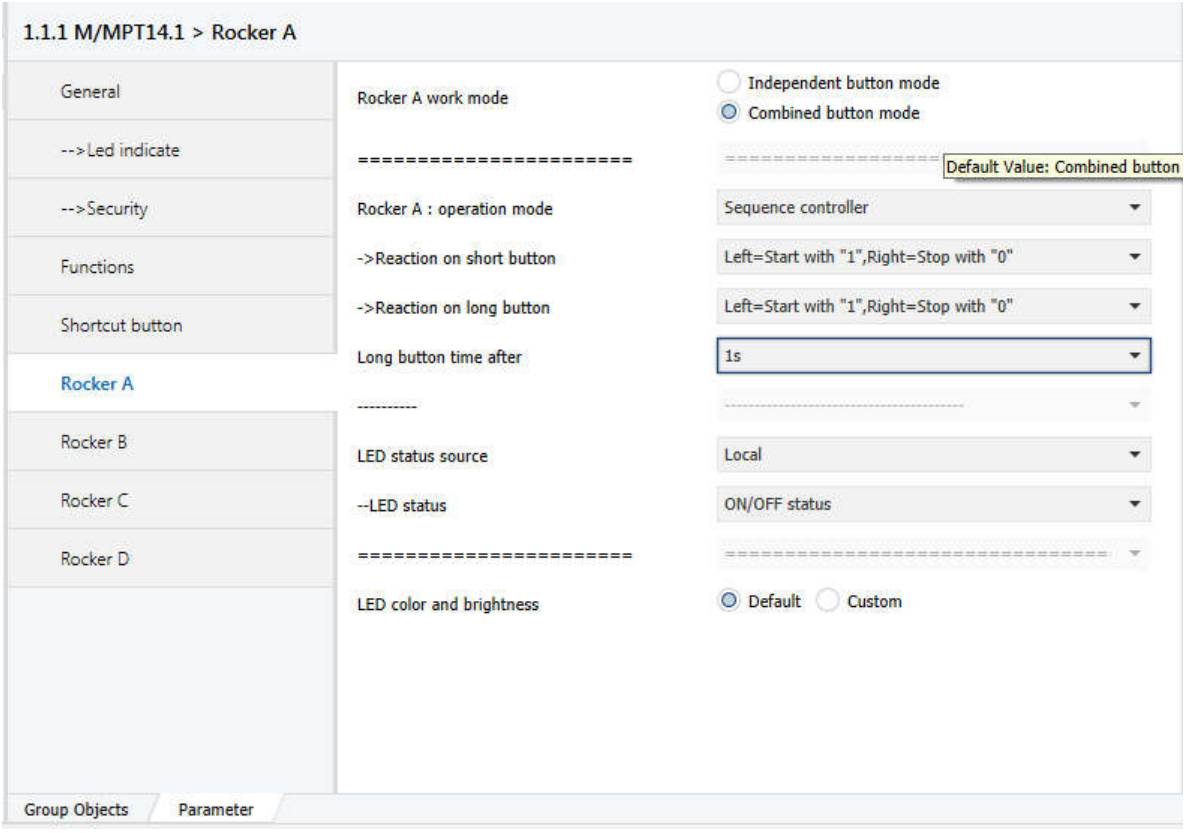


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent* *Combined button mode: Left and right buttons for a pair*
2	->Call scene number of the left	-Scene NO.01 … -Scene NO.64	*Set the function of button when short press it.*
3	->Call scene number of the right		
4	->Long button operation as	-Invalid -Scene dimming -Scene saving -Dimming and Saving	*Set the function of button when long press it.*
5	Scene dimming	-Left=Brighter,Right =Darker -Left=Darker,Right =Brighter	*Set the dimming mode when the long press function is dimming.*
6	--Delay operation for left short button(0...255s)	0 … 255	*Set the delay time after pressing the button*
7	--Delay operation for right short button(0...256s)		
8	Long button time after	0.2s … 60s	*How long time as a long button.*

			Long press the button or short press the button can control the different objects. This parameter distinguish between long press and short press.

9	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
10	--LED status	-Flashing,then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
11	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.6 Sequence controller

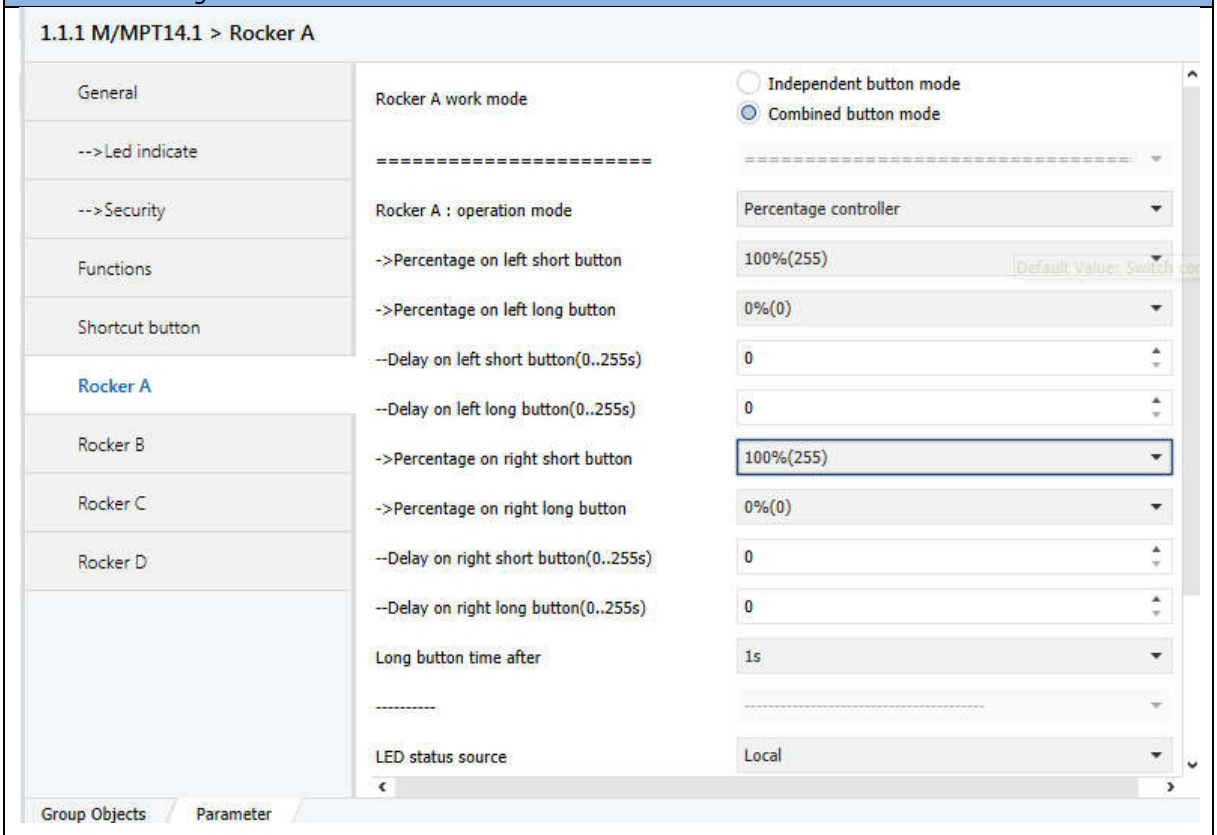


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent* *Combined button mode: Left and right buttons for a pair*
2	->Reaction on short button	-Invalid … -Left=Start with “0”,Right=Stop with “0”	*Set the function of button when short press it.*

3	->Reaction on long button	-Invalid … -Left=Start with "0",Right=Stop with "0"	*Set the function of button when long press it.*
4	Long button time after	0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects. This parameter distinguish between long press and short press.*

5	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
6	--LED status	-Flashing,then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
7	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.7 Percentage controller

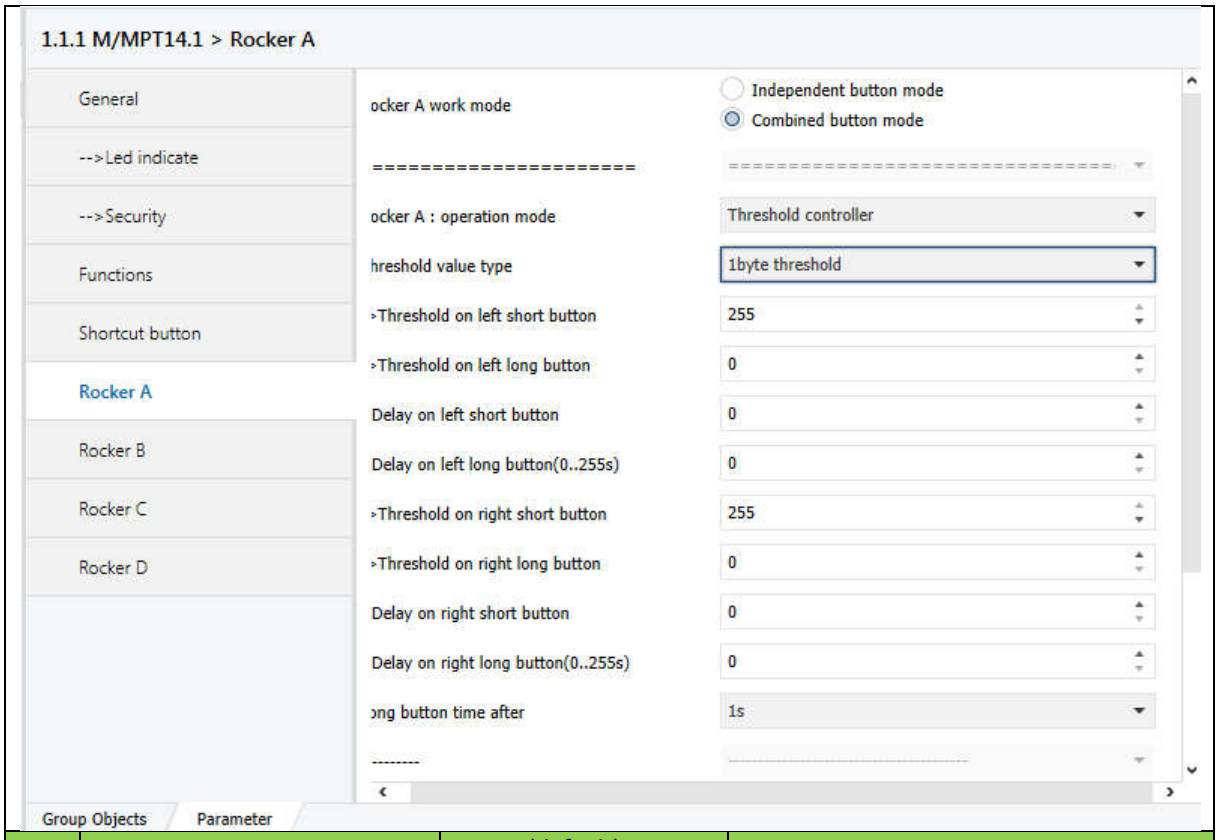


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent.* *Combined button mode: Left and right buttons for a pair.*

2	->Percentage on left short button	0%(0) … 100%(255)	*Set the function of button when short press it.*
3	->Percentage on left long button	0%(0) … 100%(255)	*Set the function of button when long press it.*
4	--Delay on left short button(0..255s)	0 … 255	*Set the delay time of press button.*
5	--Delay on left long button(0..255s)	0 … 255	
6	->Percentage on right short button	0%(0) … 100%(255)	*Set the value to send to the object when you control the rocker.*
7	->Percentage on right long button	0%(0) … 100%(255)	
8	--Delay on right short button(0..255s)	0 … 255	*Set the delay time of press button.*
9	--Delay on right long button(0..255s)	0 … 255	
10	Long button time after	0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects.* *This parameter distinguish between long press and short press.*

11	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
12	--LED status	-Flashing,then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
13	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.8 Threshold controller

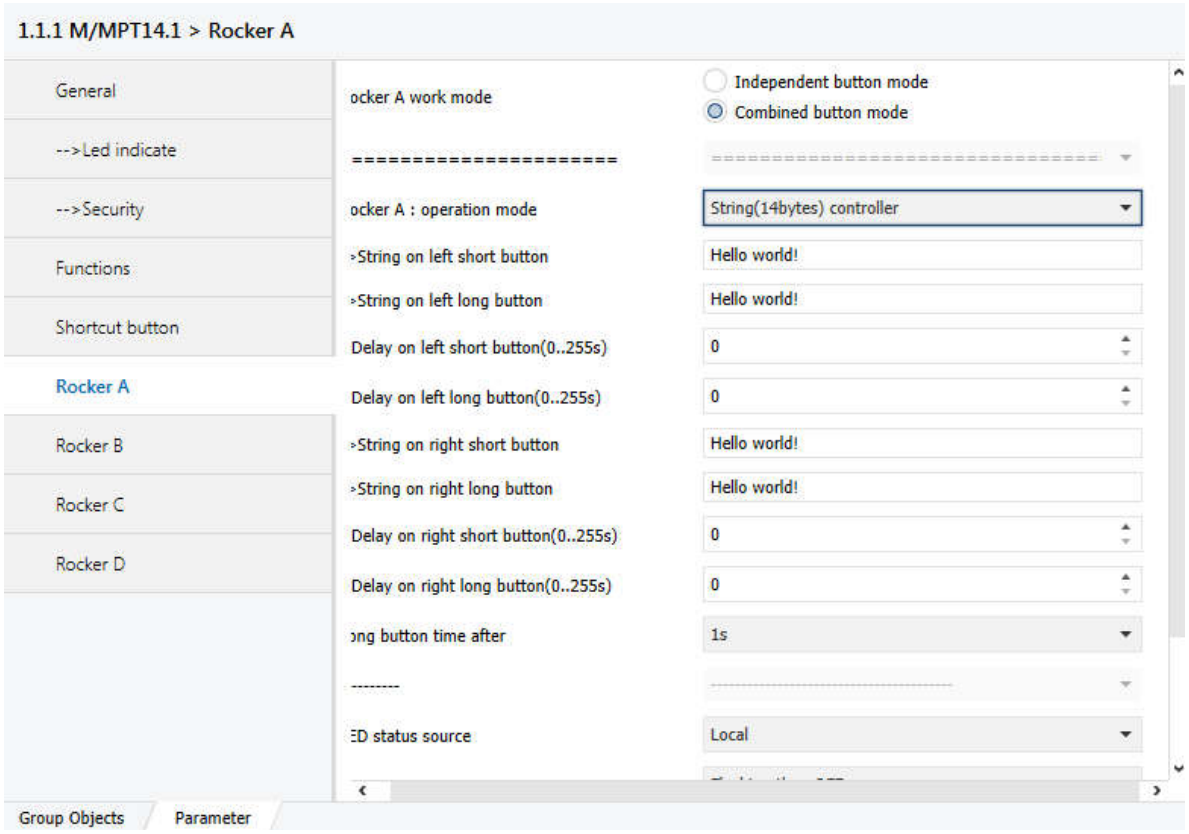


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent.* *Combined button mode: Left and right buttons for a pair.*
2	Threshold value type	-1byte threshold -2bytes threshold -2byte float threshold	*Set the threshold type*
3	->Threshold on left short button	-0 … 255	*Set the threshold for the short button*
4	->Threshold on left long button		
5	--Delay on left short button	-0 … 255s	*Set the delay time of left press short button.*
6	--Delay on left long button(0..255s)		*Set the delay time of left press longbutton.*
7	->Threshold on right short button	-0 … 255	*Set the threshold for the short button*
8	->Threshold on right long button		
9	--Delay on right short button	-0 … 255s	*Set the delay time of right press short button.*
10	--Delay on right long button(0..255s)		*Set the delay time of right press long button.*
11	Long button time after	-0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects. This parameter distinguish between long press and short press.*

12	LED status source	-Local	*Set the LED status source.*

		-From bus -Mutually exclusive display	
13	--LED status	-Flashing, then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
14	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.9String(14bytes)controller

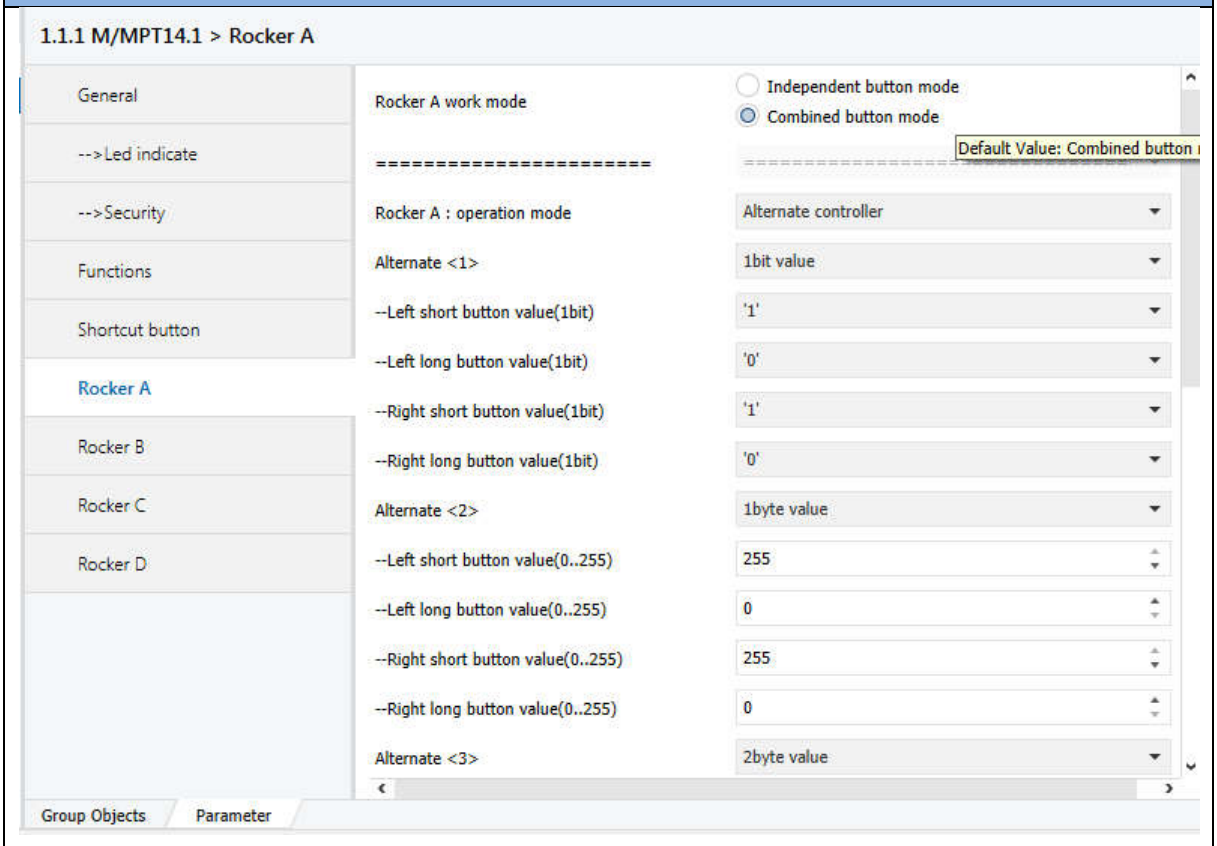


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent.* *Combined button mode: Left and right buttons for a pair.*
2	->String on left short button	14bytes	*Set the string of press action*
3	->String on left long button		
4	--Delay on left short button(0..255s)	0 … 255	*Set the delay time of press button.*
5	--Delay on left long button(0..255s)		
6	->String on right short button	14bytes	*Set the string of press action*
7	->String on right long button		
8	--Delay on right short button(0..255s)	0 … 255	*Set the delay time of press button.*

9	--Delay on right long button(0..255s)		
10	Long button time after	0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects.* *This parameter distinguish between long press and short press*

11	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
12	--LED status	-Flashing,then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
13	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.10Alternatecontroller

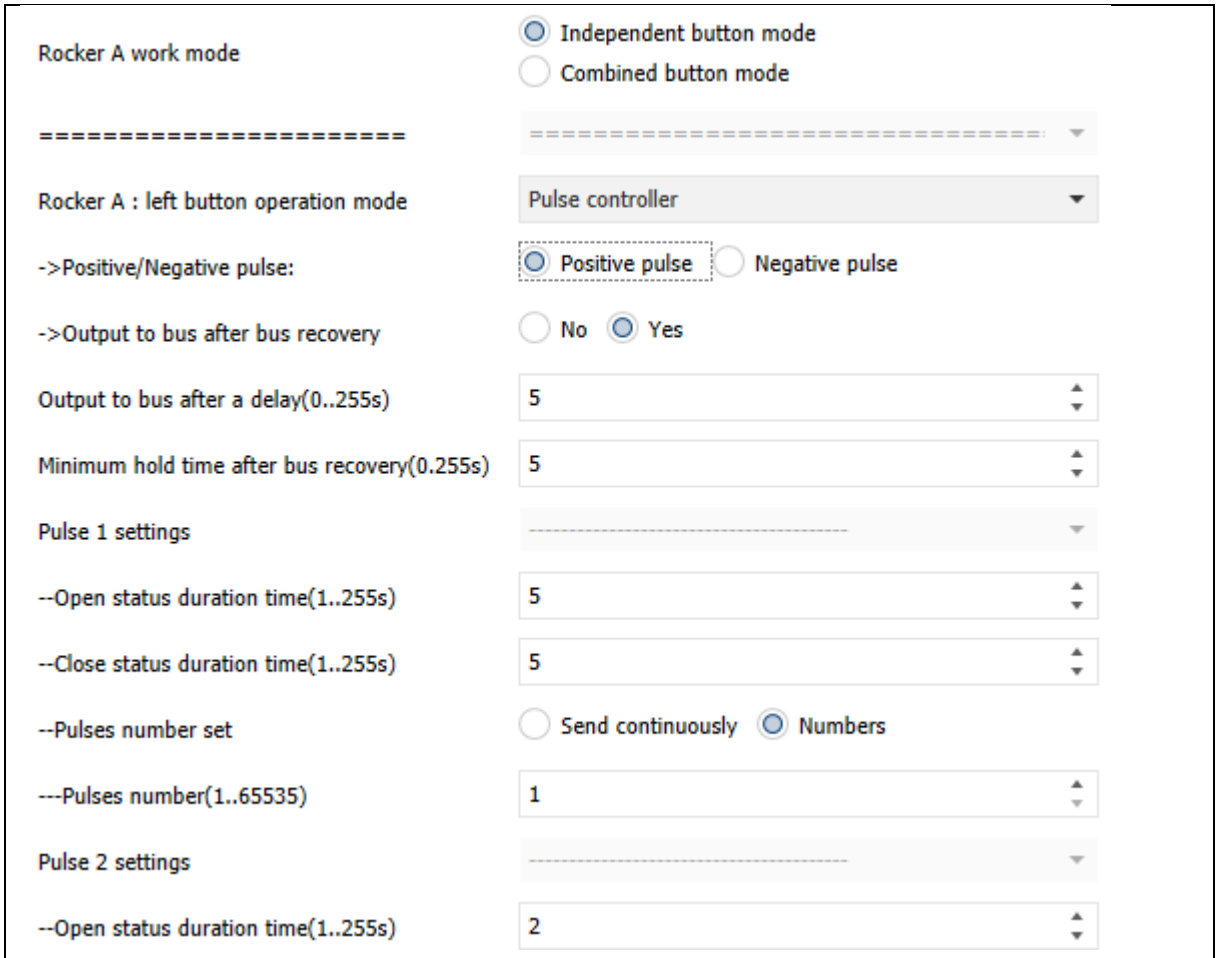


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent.* *Combined button mode: Left and right buttons for a pair.*
2	Alternate<1> ...	-Invalid -1bit value	*Set the type of alternate.* *Alternate<1> to Alternate<4> will*

	Alternate<4>	-1byte value -2byte value	*alternate control when press this button*
3	--Left short button value(1bit)	-toggle - '0' - '1'	*Set alternate values for 1bit*
4	--Left long button value(1bit)		
5	--Right short button value(1bit)		
6	--Right long button value(1bit)		
7	--Left short button value(0...255)	-0 … 255	*Set alternate values for 1byte*
8	--Left long button value(0...255)		
9	--Right short button value(0...255)		
10	--Right long button value(0…255)		
11	--Left short button value(0...65535)	-0 … 65535	*Set alternate values for 2byte*
12	--Left long button value(0...65535)		
13	--Right short button value(0...65535)		
14	--Right long button value(0...65535)		
15	->Alternate on left short button	-Disable -Enable	*Disable/Enable the older of 1 to 4 alternate.*
16	->Alternate on left long button		
17	->Alternate on right short button		
18	->Alternate on right long button		
19	Long button time after	-0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects. This parameter distinguish between long press and short press*

20	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
21	--LED status	-Flashing, then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
22	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.11Pulse controller

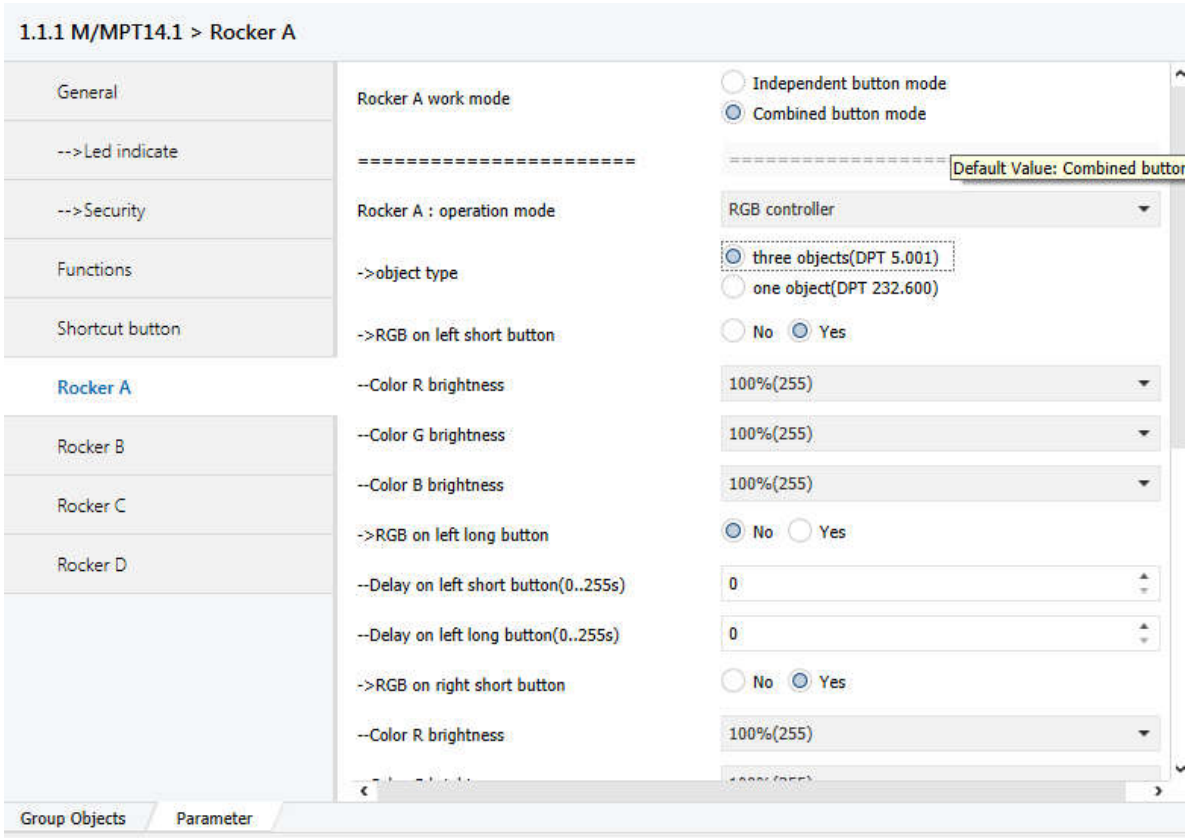


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent.* *Combined button mode: Left and right buttons for a pair.*
2	->Positive/Negative pulse:	-Positive pulse - Negative pulse	*Set the parameter for pulse controller*
3	->Output to bus after bus recovery	-Yes -No	*Whether or not output to bus after recovery.*
4	Output to bus after a delay(0..255s)	-0...255s	*Set the delay time for output to bus*
5	Minimum hold time after bus recovery(0.255s)	-0...255s	*Set the minimum hold time when power on*
Pulse 1 settings----------			
6	--Open status duration time(1..255s)	-1...255s	*Set the duration time for opening status*
7	--Close status duration time(1..255s)	-1...255s	*Set the duration time for closing status*
8	--Pulses number set	-Send continuously -Numbers	*Set the parameter for pulses number* *Number: If you set one time, will send pulse for one time* *Send continuously: will always send pulse*
9	---Pulses number(1..65535)	-1...65535	*Set the number for sending pulse*
Pulse 2 setting, same as pulse 1.			
10	Reaction on short button	-Invalid -Pulse 1	*Set the function of short press action.* *When short press the cell.*

11	Reaction on long button	-Pulse 2 -Toggle -Stop	*Set the function of Long press action.* *When Long press the cell.*
12	Long button time after	-0.2s…60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects. This parameter distinguish between long press and short press*

13	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
14	--LED status	-Flashing, then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
Rocker A right setting, same as Rocker A left.			
==========			
15	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.12 RGB controller

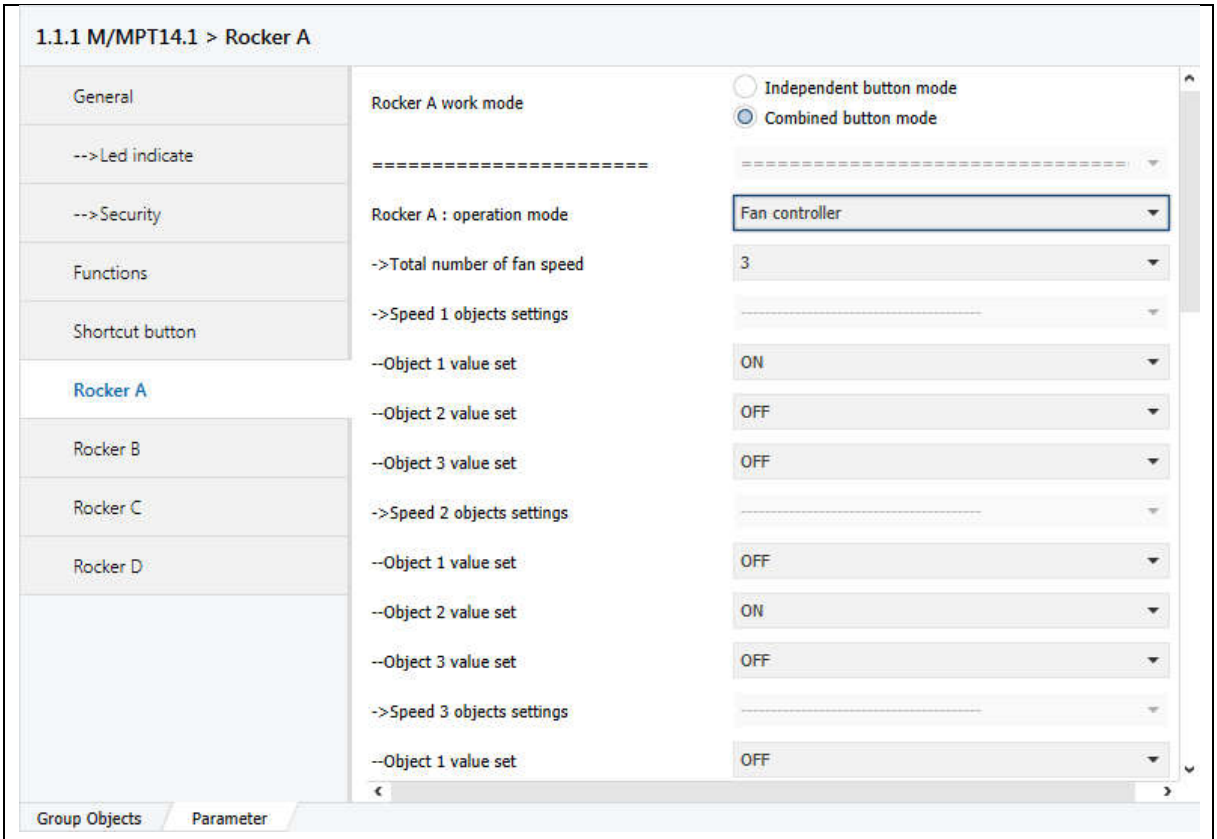


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button	*Set the Rocker work mode.* *Independent button mode: Each button is independent.*

		mode	*Combined button mode: Left and right buttons for a pair.*
2	->object type	-three objects(DPT5.001) -one object (DPT 232.600)	*Set the RGB control object type*
3	->RGB on left short button … ->RGB on rightlong button	-Yes -No	*Whether to let the button press to send the RGB value*
4	--Color R brightness	-0%(0) … -100%(255)	*Send the RGB brightness value*
5	--Color G brightness		
6	--Color B brightness		
7	--Delay on left short button (0...255s) … --Delay on right long button (0...255s)	-0 … 255	*The delay of sending*
8	Long button time after	0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects. This parameter distinguish between long press and short press*

9	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
10	--LED status	-Flashing, then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
11	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.13Fan controller

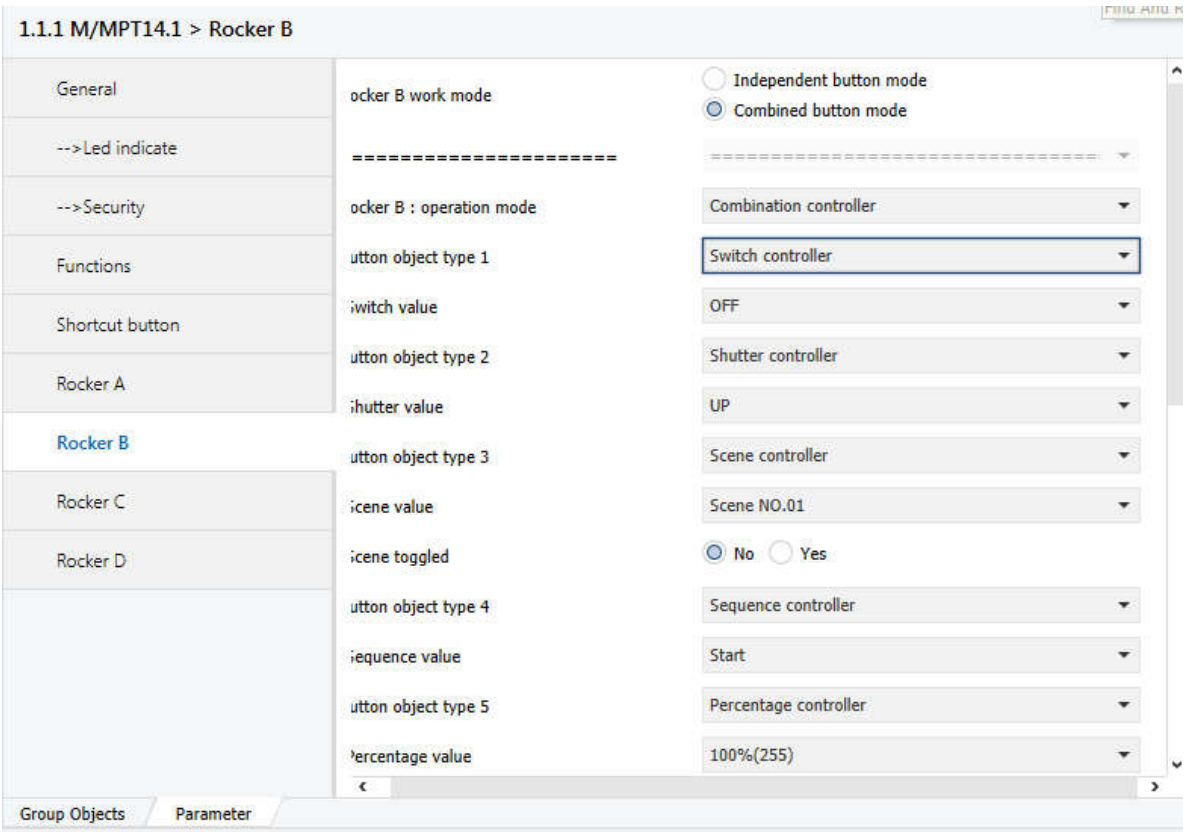


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent.* *Combined button mode: Left and right buttons for a pair.*
2	->Total number of fan speed	-2 -3 -4	*Set the total number of fan speed, if you select 4 that will have 4 speed the following.*
3	->Speed 1 objects settings … ->Speed 4 objects settings	-Yes -No	*Whether to open the speed function.*
4	->Reaction on left button … ->Reaction on right button	-Invalid -Switch fan speed	*Set the function of press the button.*
5	--Switch speed direction	-FWD -RWD	*Set the older of the speed when press the button.*
6	--Speed 1	-Disable -Enable	*Enable/Disable the speed function.*
7	--Speed 2		
8	--Speed 3		
9	--Turn off fan		
10	Long button time after	0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects.* *This parameter distinguish between long press and short press*

11	LED status source	-Local -From bus -Mutually exclusive	*Set the LED status source.*

		display	
12	--LED status	-Flashing,then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
13	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

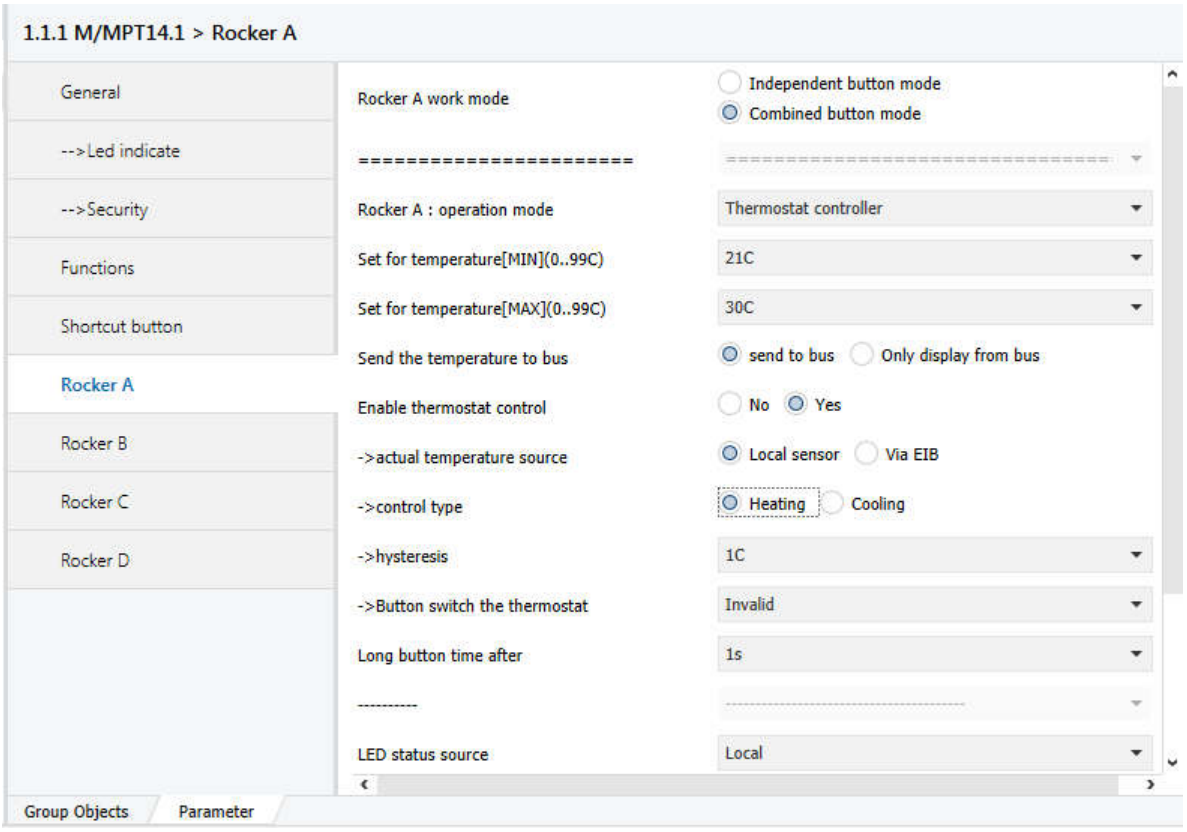
2.1.1.14Combination controller



No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent.* *Combined button mode: Left and right buttons for a pair.*
2	Button object type 1 … Button object type 8	-Invalid -Switch controller -Shutter controller -Scene controller -Sequence controller -Percentage controller -Threshold controller -String(14bytes) controller	*Set the function of the button.*
3	Long button time after	0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects.*

			This parameter distinguish between long press and short press
----------			
4	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
5	--LED status	-Flashing, then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
6	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.15Thermostat controller

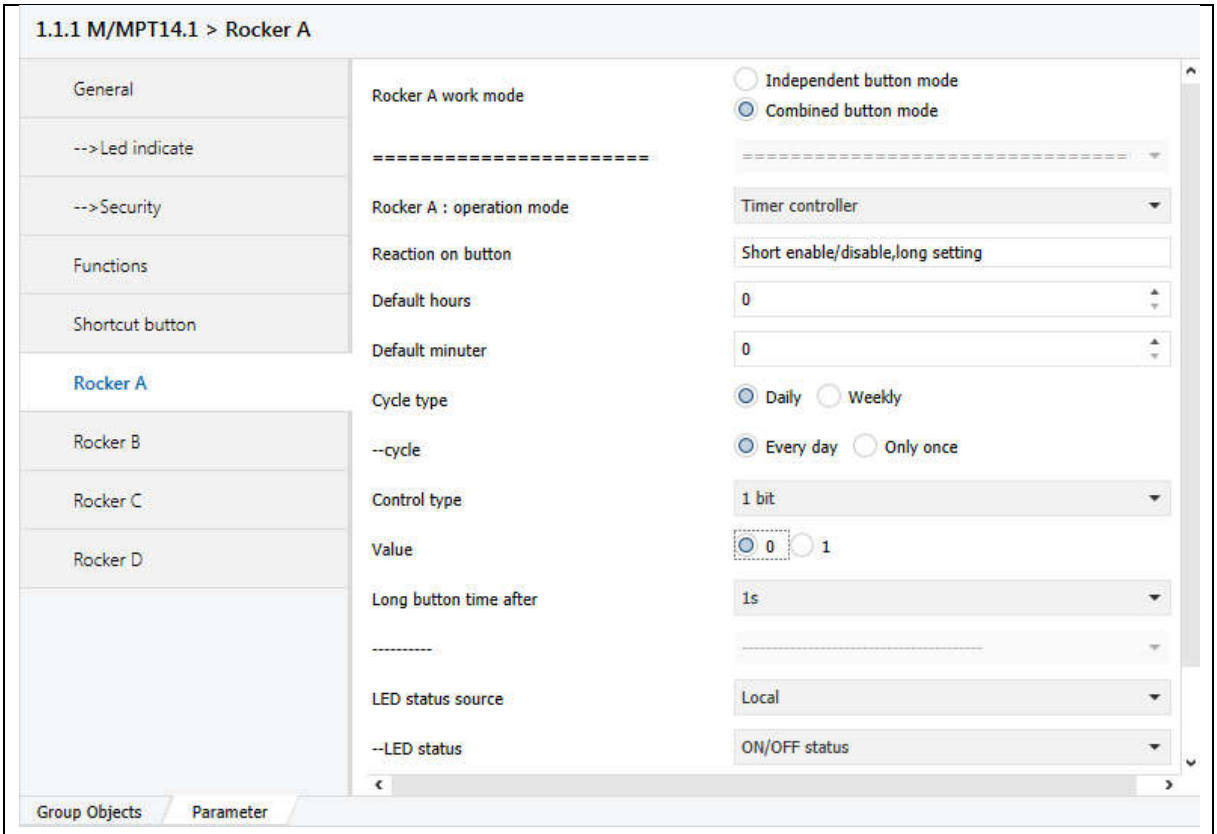


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent.* *Combined button mode: Left and right buttons for a pair.*
2	Set for temperature[MIN](0...99C)	-0C … 99C	*Set the range of temperature.*
3	Set for temperature[MAX](0..99C)		
4	Send the temperature to bus	-send to bus -Only display from bus	*send to bus:* *Send the temperature to bus.*

			Only display from bus: *Only instructions transmitted via BUS are displayed*
5	Enable thermostat control	-No -Yes	*Whether to enable thermostat control*
6	->actual temperature source	-Local sensor -Via EIB	*Set the source of actual temperature.*
7	->control type	-Heating -Cooling	*Heating/Cooling control type*
8	->hysteresis	-1C	*Set the temperature hysteresis*
9	->Button switch the thermostat	-Invalid -left long=ON, right long=OFF -left long=OFF, right long=ON -toggle (long button ON/OFF)	*Set the function of button when long press it.*
10	Long button time after	0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects. This parameter distinguish between long press and short press.*

11	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
12	--LED status	-Flashing, then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
13	LED color and brightness	-Default -Custom	*Default/Custom LED color and brightness.*

2.1.1.16Timer condition

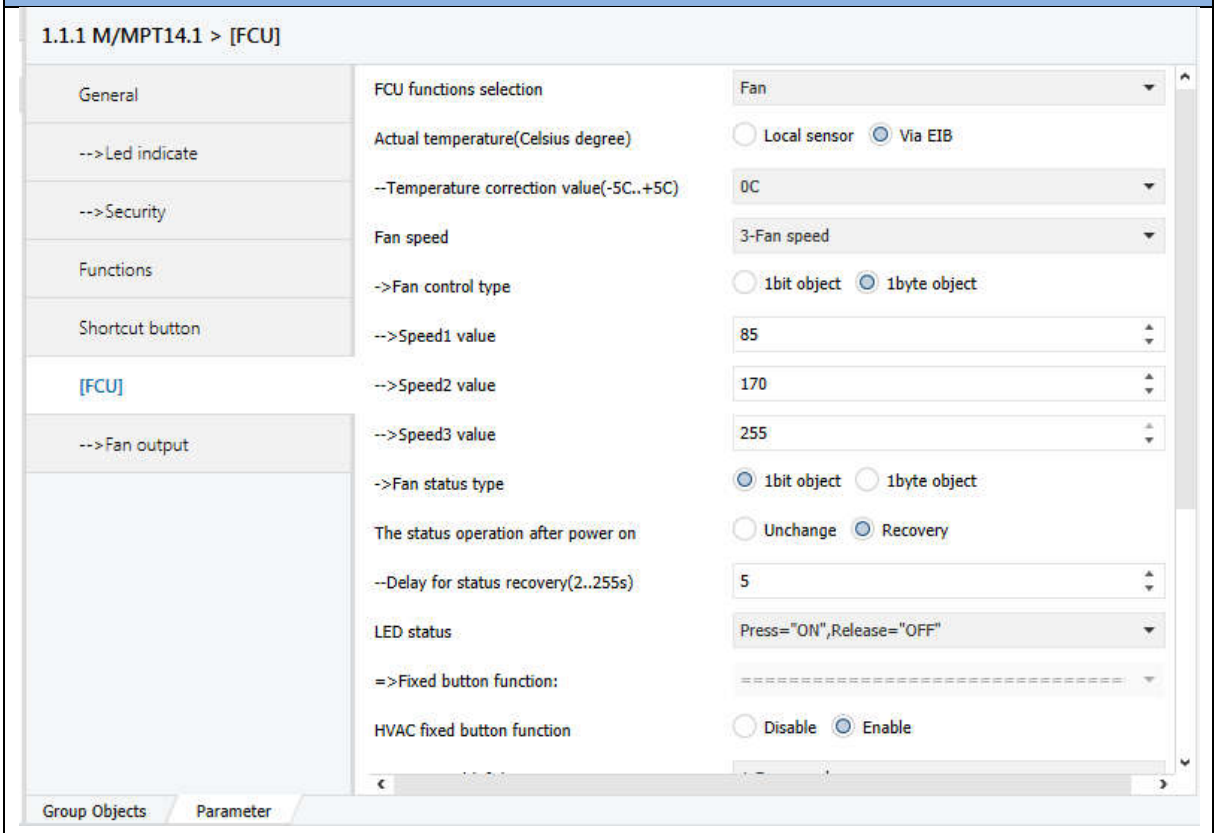


No.	ETS-Parameter	Range (default)	Description
1	Rocker A work mode	-Independent button mode -Combined button mode	*Set the Rocker work mode.* *Independent button mode: Each button is independent.* *Combined button mode: Left and right buttons for a pair.*
Reaction on button: Shortenable/disable,longsetting			
2	Default hours	0 … 23	*Set the default time*
3	Default minuter	0 … 59	
4	Cycle type	-Daily -Weekly	*Set the timer cycle type*
5	Control type	-1bit -Scene - 1 byte	*Set the timer control type.*
6	Long button time after	0.2s … 60s	*How long time as a long button.* *Long press the button or short press the button can control the different objects.* *This parameter distinguish between long press and short press.*

7	LED status source	-Local -From bus -Mutually exclusive display	*Set the LED status source.*
8	--LED status	-Flashing, then ON -Flashing,then OFF -Flashing,then status -ON/OFF status -Flashing,then ON	*Set the status of the state and LED lights.*
==========			
9	LED color and brightness	-Default	*Default/Custom LED color and brightness.*

		-Custom	

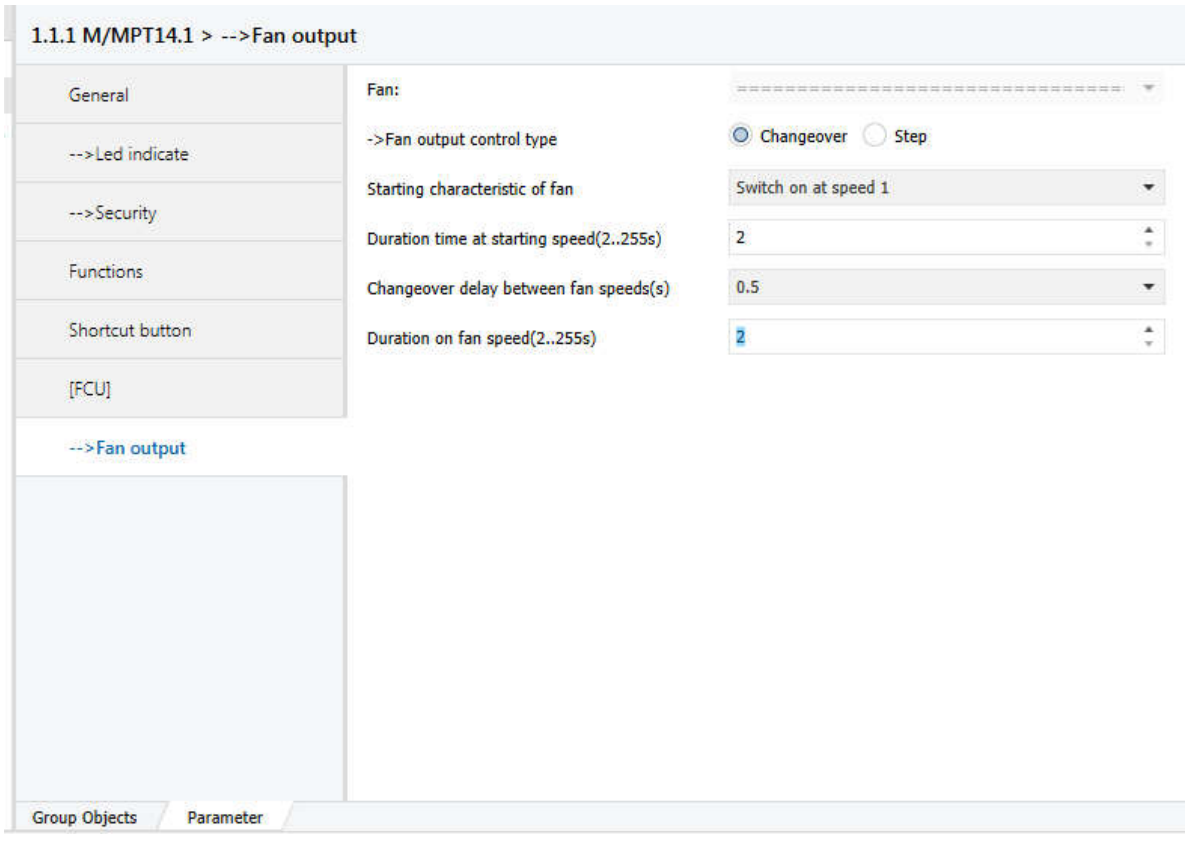
2.2FCU



No.	ETS-Parameter	Range (default)	Description
1	FCU functions selection	-Fan -Heating -Cooling -Heating and Cooling	*Set the function of FCU.*
2	Actual temperature(Celsius degree)	-Local sensor -Via EIB	*Set the source of actual temperature.*
3	Long button time after	-0.2-5s	*How long time as a long button.* *Long press the button or short press the button can control the different objects. This parameter distinguish between long press and short press*
4	Fan speed	-1-Fan speed -2-Fan speed -3-Fan speed	*Set the fan speed*
5	->Fan control type	-1bit object -1byte object	*Set the fan speed control type.*
6	-->Speed1 value … -->Speed3 value	-0 … 255	*Set the value of speed.*
7	->Fan status type	-1bit object -1byte object	*Set the fan status type.*
8	The status operation after power on	-Unchange -Recovery	*Set FCU status after power on.*
9	--Delay for status recovery(2...255s)	-2 … 255s	*This parameter is for power on status is recovery.*

10	LED status	-Flashing -Press="ON",Release ="OFF" -Press="OFF",Release ="ON"	*Set the status of the state and LED lights.*
=>Fixed button function:==========			
11	HVAC fixed button function	-Enable -Disable	*Disable/Enable HVAC fixed button function*
12	->Fan speed:left button	-1-Fan speed -2-Fan speed -3-Fan speed -Stop -Switching speed -Invalid	*Set the fan speed of left and right button.*
13	->Fan speed:right button		
=>Output control:==========			
14	Output control the relay actuator	-Enable -Disable	*Disable/Enable output function.*
=>Information zone:==========			
15	Display date and time	-No -Yes	*Whether display the date and time.*
16	Display picture of the controlled device	-No -Yes	*Whether display picture of the controlled device*
17	Scrolling information displayed timeinterval(5..255s)	-5 … 255	*Set the scrolling information displayed time interval*

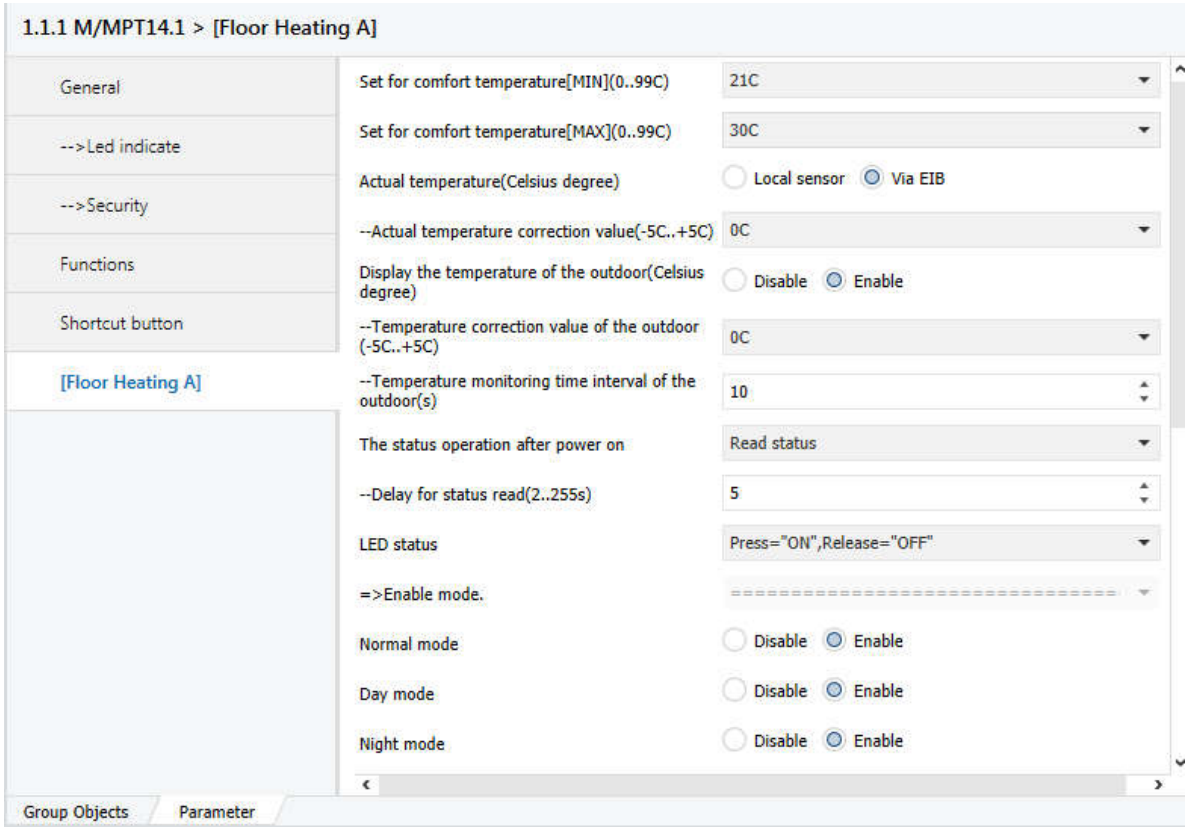
2.2.1 -->Fan output



No.	ETS-Parameter	Range (default)	Description
Fan:==========			

1	->Fan output control type	-Changeover -step	*Set the fan output control type.*
2	Starting characteristic of fan	-Switch on at speed 1 -Switch on at speed 2 -Switch on at speed 3	*Set the starting characteristic of fan*
3	Duration time at starting speed(2..255s)	-2 … 255	*Set the starting speed of fan*
4	Changeover delay between fan speeds(s)	-0.5 …. 10	*Set the Changeover delay between of fan speed*
5	Duration on fan speed(2..255s)	-2 … 255	*Set the fan speed duration time.*

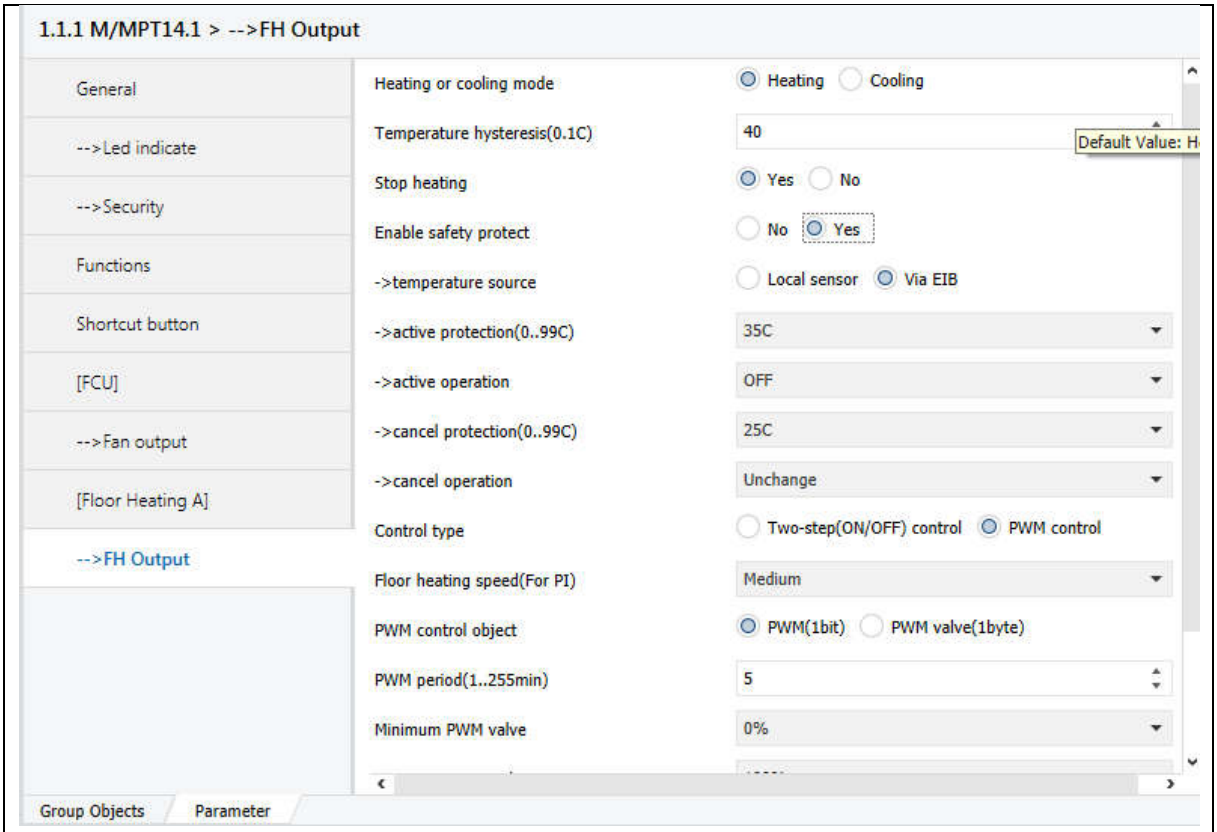
2.3[Floor Heating A]



No.	ETS-Parameter	Range (default)	Description
1	Set for comfort temperature(MIN)(0..99C)	-0C … 99C	*Set the range of comfort temperature.*
2	Set for comfort temperature(MAX)(0..99C)		
3	Actual temperature (Celsius degree)	-Local sensor -Via EIB	*Set the source of actual temperature.*
4	--Actual temperature correction value(-5C..+5C)	- -5.0C … +5.0C	*Set the actual temperature correction value.*
5	Display the temperature of the outdoor(Celsius degree)	-Display -Enable	*Disable /Enable display the temperature of the outdoor on the floor heating page.*
6	--Temperature correction value(-5C...+5C)	--5C...+5C	*Set the temperature correction value.*
7	--Temperature monitoring time interval of the outdoor(s)	-5...255s	*Set the time interval of the outdoor temperature monitoring.*
8	The status operation after	-Unchange	*Set the status after power on.*

	power on	-Recovery -Read status	
9	--Delay for status read (2...255s)	-2...255s	
10	LED status	-Flashing -Press="ON", Release="OFF" -Press="OFF", Release="ON"	*Set the status of the state and LED lights.*
=>Enable mode.==========			
11	Normal mode	-Disable -Enable	*Disable/enable the mode.*
12	Day mode		
13	Night mode		
14	Away mode		
15	Time mode		
=>Fixed button function:==========			
16	Floor heating fixed button function	-Disable -Enable	*Disable/enable the fixed button function.*
17	->Mode: left button	-Normal-Mode -Day-mode -Night-mode -Away-mode -Timer-mode -Switching mode -Invalid	*The function of left and right fixed button.*
18	->Mode: right button		
=>Output control:==========			
19	Output control the relay actuator	-Disable -Enable	*Disable/Enable output function.*
=>Information zone:==========			
20	Display alarm information	-No -Yes	*Whether or not display alarm information*
21	Display information	-No -Yes	*Whether or not display information*
22	Display picture of the controlled device	-No -Yes	*Whether or not display picture of the controlled device*
23	Scrolling information displayed timeinterval(5..255s)	5 … 255	

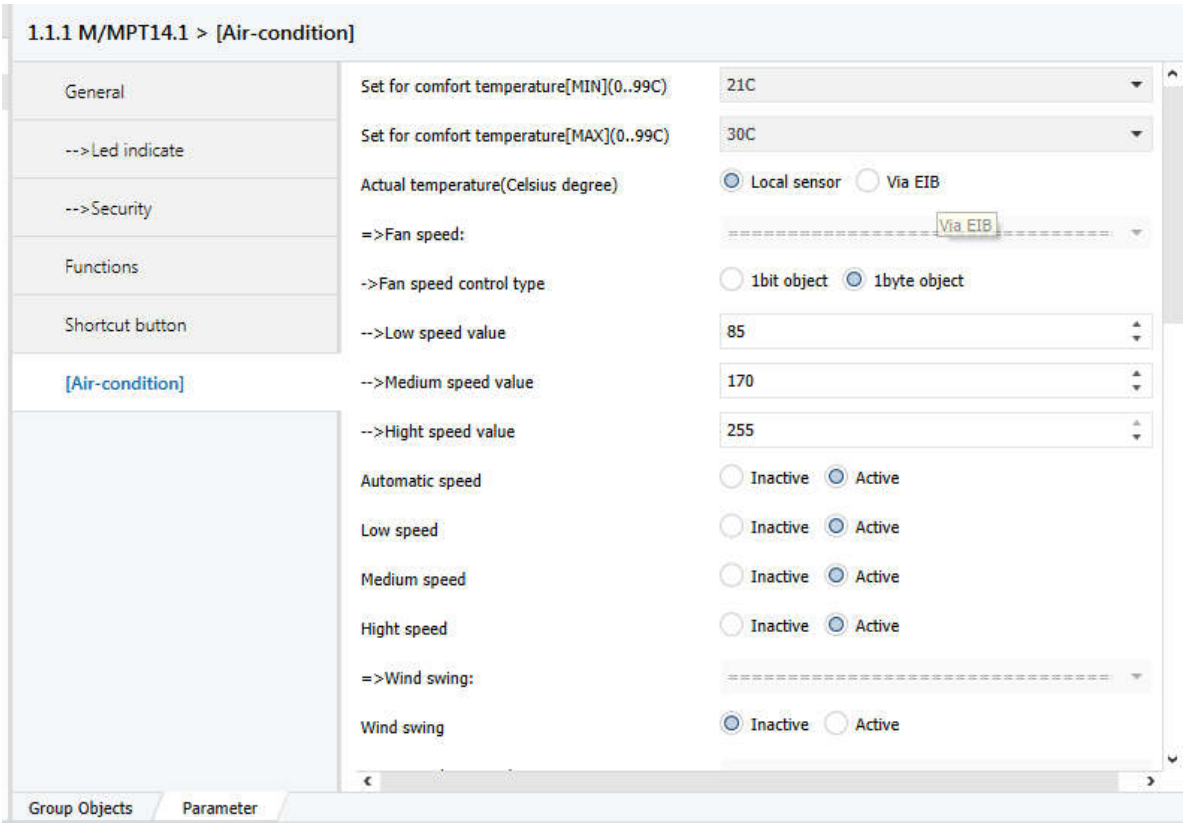
2.3.1 -->FH Output



No.	ETS-Parameter	Range (default)	Description
1	Heating or cooling mode	-Heating -Cooling	*Select the FH output function.*
2	Temperature hysteresis(0.1C)	1 … 200	*Set the temperature hysteresis*
3	Stop heating	-Yes -No	*Whether or not stop heating.* *If you select yes,Itaccording the temperature then decide stop heating or not. If you select No, it will always working.*
4	Enable safety protect	-Yes -No	*Whether to open security protection.*
5	->temperature source	-Local sensor -Via EIB	*Set the temperature source.*
6	->active protection(0..99C)	0C … 99C	*Set the protection temperature threshold and operation*
7	->active operation	-Unchange -OFF -ON	
8	->cancel protection(0..99C)	0C … 99C	*Set the threshold and operation to cancel the protection temperature*
9	->cancel operation	-Unchange -OFF -ON	
10	Control type	-Two-step(ON/OFF) control -PWM control	*Set the control type.*
11	Floor heating speed(For PI)	-Lower -Low -Medium -Fast -Faster	*Set the floor heating intensity level.*
12	PWM control object	-PWM(1bit) -PWM value(1byte)	*Set the PWM control object.*
13	PWM period(1...255min)	-1 … 255	*PWM control parameter setting.*

14	Minimum PWM valve	-0% … 40%	
15	Maximum PWM valve	-60% … 100%	
16	Enable purge	-Yes -No	*Whether use purge function.*
17	->Time of purge(1..255min)	1 … 255	*Set the time of purge.*

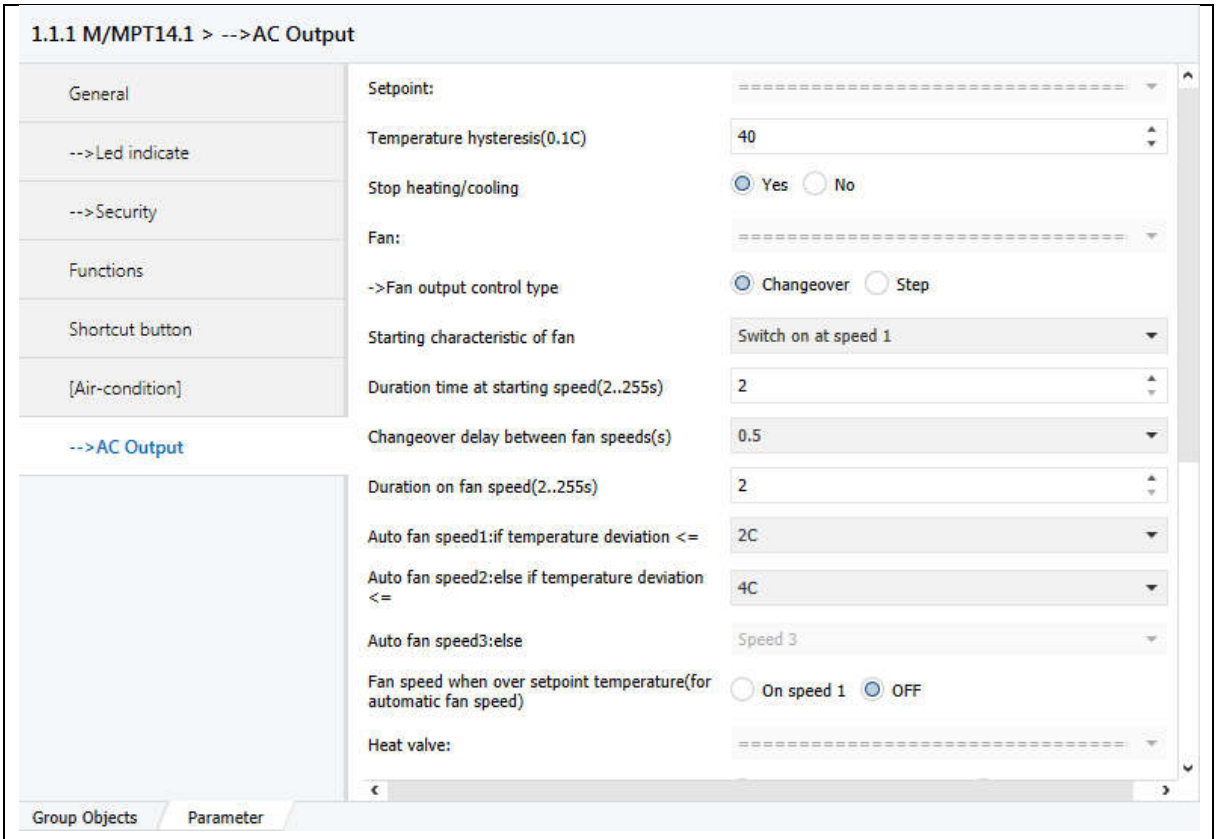
2.4[Air-condition]



No.	ETS-Parameter	Range (default)	Description
1	Set for comfort temperature(MIN)(0..99C)	-0C … 99C	*Set the range of comfort temperature.*
2	Set for comfort temperature(MAX)(0..99C)		
3	Actual temperature (Celsius degree)	-Local sensor -Via EIB	*Set the source of actual temperature.*
4	Temperature correction value(-5C..+5C)	--5.0C … +5.0C	*Set the correction value.*
=>Fan speed:==========			
5	->Fan speed control type	-1bit object -1byte object	*Set the fan speed control type.*
6	-->Low speed value	-0 … 255	*Set the value of speed.*
7	-->Medium speed value		
8	-->Hight speed value		
9	Automatic speed	-Inactive -Active	*Set the speed is active or not.*
10	Low speed		
11	Medium speed		
12	Hight speed		
=>Wind swing:==========			
13	Wind swing	-Inactive -Active	*Set the wind swing is active or not.*

=>Air condition mode:==========			
14	->Control mode type	-1bit object -1byte object	*Set the air condition control type.*
15	Automatic heating/cooling	-Inactive -Active	*Set the function of air condition, you can't find the function in the panel when you select inactive.*
16	Only cooling		
17	Only heating		
18	Only dehumidification		
19	Only fan		
=>Air condition status:==========			
20	The status operation after power on	-Unchange -Recovery	*Set the air condition status after power on.*
21	--Delay for status recovery(2..255s)	2 … 255	*This parameter is for power on status is recovery.*
22	The status operation after AC switch ON	-Unchange -Recovery	*Set the AC switch status. When the status is on you can operation AC settings via panel.*
23	--Delay for status recovery(0..20s)	2 … 255	
24	LED status	-Flashing -Press="ON", Release="OFF" -Press="OFF", Release="ON"	*Set the status of the state and LED lights.*
=>Fixed button function:==========			
25	Fixed button function	-Enable -Disable	*Set the fixed button function after power on.*
26	->Fan speed:left button	-Auto -Low speed -Medium speed -Hight speed -Switching speed -Invalid	*Set the fan speed of the fixed button.*
27	->Fan speed:right button		
28	->Mode:left button	-Auto -Cooling -Heating -dehumidification -Fan -Switching control mode -Invalid	*Set the fan mode of the fixed button.*
29	->Mode:right button		
=>Output control:==========			
30	Output control the relay actuator	-Enable -Disable	*Whether use Output control function.*
=>Information zone:==========			
31	Display date and time	-No -Yes	*Whether display the date and time.*
32	Display picture of the controlled device		*Whether display picture of the controlled device*
33	Scrolling information displayed timeinterval(5..255s)	5 … 255	*Set the scrolling information displayed time interval*

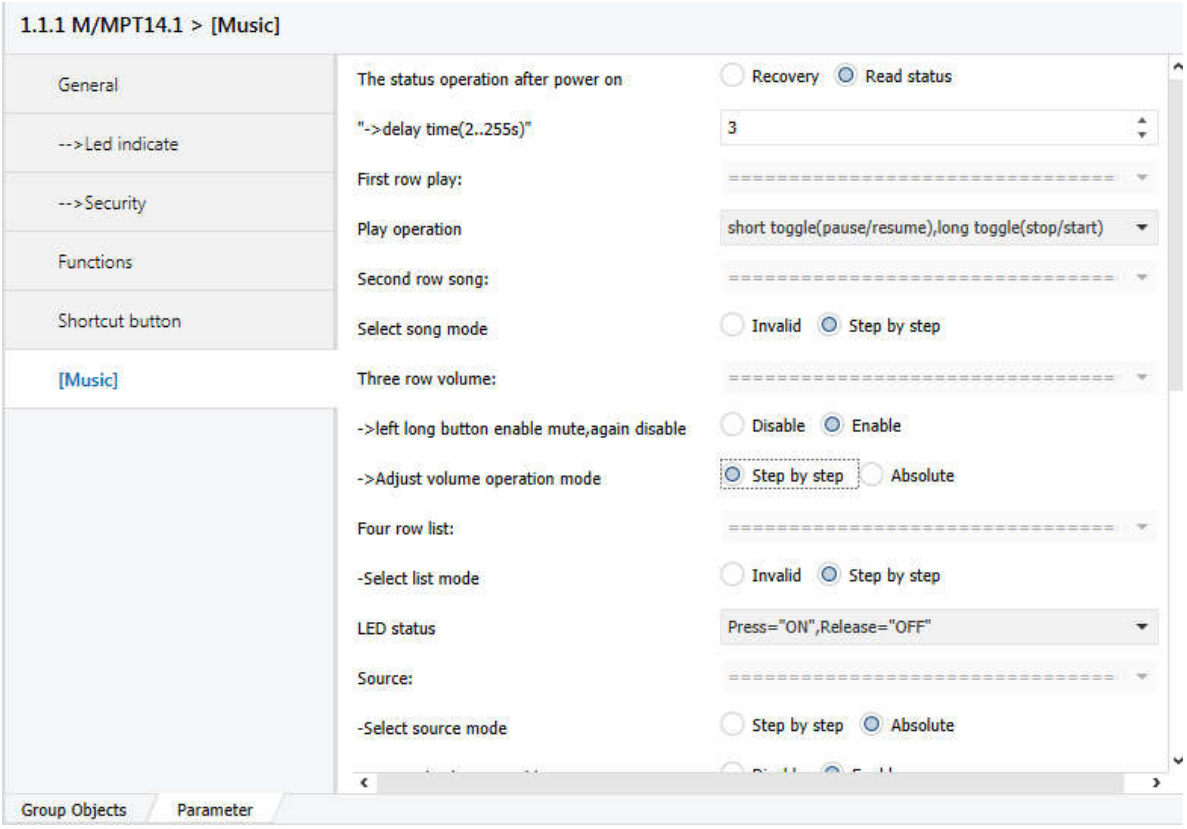
2.4.1-->AC Output



No.	ETS-Parameter	Range (default)	Description
Setpoint:==========			
1	Temperature hysteresis(0.1C)	1 … 200	*Set the temperature hysteresis.*
2	Stop heating/cooling	-Yes -No	*Disable/Enable Stop heating/cooling.*
Fan:==========			
3	->Fan output control type	-Changeover -step	*Set the fan output control type.*
4	Starting characteristic of fan	-Switch on at speed 1 -Switch on at speed 2 -Switch on at speed 3	*Set the starting characteristic of fan.*
5	Duration time at starting speed(2...255s)	-2 … 255	*Set the starting speed of fan*
6	Changeover delay between fan speeds(s)	-0.5 … 10	*Set the Changeover delay between of fan speed*
7	Duration on fan speed(2...255s)	-2 … 255	*Set the fan speed duration time.*
8	Auto fan speed1:if temperature deviation<=	-0.5C … 30C	*Set the auto fan mode temperature to determine the value*
9	Auto fan speed2:else if temperaturedeviation <=		
10	Auto fan speed3:else	-Speed 3	
11	Fan speed when over setpoint temperature(for automatic fan speed)	-On speed 1 -OFF	*Set the fan state parameters.* *On speed 1: The fan state is set to speed 1.* *OFF: The fan is turned off.*
Heat valve:==========			
12	Control type	-Two-step(ON/OFF) control -PWM control	*Set the control type.*

Cool valve:==========			
13	Control type	-Two-step(ON/OFF) control -PWM control	*Set the control type.*

2.5[Music]



No.	ETS-Parameter	Range (default)	Description
1	The status operation after power on	-Recovery -Read status	*Set the status after power on.*
2	"->delay time(2...255s)"	2 … 255	*Set the delay time for power on.*
First row play:==========			
3	Play operation	-left: S-pause,L-stop,right: S-resume,L-start -left: S-resume,L-stop,right: S-pause,L-stop -short toggle(pause/resume),long toggle(stop/start)	*Set the play operation in the first row.*
Second row song:==========			
4	Select song mode	-Invalid -Step by step	*Set the play mode in the second row.*
Three row volume:==========			
5	->left long button enable mute,againdisable	-Disable -Enable	*Set the play mode in the three rows.*
6	->Adjust volume operation mode	-Step by step -Absolute	*Set the mode of adjust volume*

7	->Volume value minimum	-0%(0) … 100%(255)	
8	->Volume value maximum	-1% … 100%(255)	
9	->Increment value	-1% … 100%(255)	
Four row list:==========			
10	-Select list mode	-Invalid -Step by step	*Set the Select list mode in the Four rows.*
11	LED status	-Flashing -Press="ON",Release ="OFF" -Press="OFF",Release ="ON"	*Set the status of the state and LED lights.*
Source:==========			
12	-Select source mode	-Step by step -Absolute	*Select source mode.*
13	-source absolute 1 enable ….	-Disable -Enable	*Absolute Whether to start and set parameters.*
14	->source absolute 1 name …	-9 character allowed	
15	->Source absolute 1 value …	-0 … 255	
Bass:==========			
16	Adjust bass operation mode	-Step by step -Absolute	*Select Adjust bass operation mode.*
17	->Bass value minimum	-0%(0) … 100%	*Set the volume adjustment range*
18	->Bass value maximum	-1% … 100%	
19	->Increment value	-1% … 100%	
Treble:==========			
20	Adjust treble operation mode	Step by step	*Select Adjust treble operation mode*
21	->Treble value minimum	-0%(0) … 100%	*Set the volume adjustment range*
22	->Treble value maximum	-1% … 100%	
23	->Increment value	-1% … 100%	
=>Information zone:==========			
24	Display date and time	-No -Yes	*Whether display the date and time.*
25	Display 14byte object receive (ASCll)	-No -Yes	*Whether display temperature.*
26	Display picture of the controlled device	-No -Yes	*Set the source of temperature.*
27	Scrolling information displayed timeinterval(5..255s)	5 … 255	*Set the scrolling information displayed time interval*

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

D.Communication Objects

D.0 General

Objects “General”

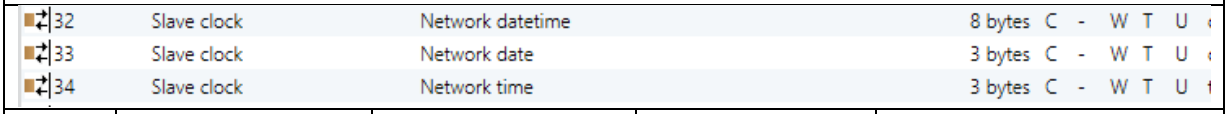
1	General	Heartbeat telegram	1 bit	C	-	-	T	-	I
2	General	Change LCD brightness	1 byte	C	-	W	T	U	
4	General	Infrared active/inactive	1 bit	C	-	W	T	U	
5	General	Sound active/inactive	1 bit	C	-	W	T	U	
6	General	Proximity sensor output	1 bit	C	R	-	T	U	
7	General	Lock touch buttons	1 bit	C	-	W	T	U	

NO.	Object name	Function	Flags	Data type
1	General	Heartbeat telegram	C T	DPT 1.002 1bit
Thiscommunication object is always active and valid. Invert the value send telegram to bus in next frame. e.g. last telegram value is “1”, the next telegram value is “0”.				
2	General	Change LCD brightness	C W T U	DPT 5.001 1byte
4	General	Infrared active/inactive	C W T U	DPT 1.003 1bit
5	General	Sound active/inactive	C W T U	DPT 1.003 1bit
6	General	Proximity sensor output	C R T U	DPT 1.001 1bit
7	General	Lock touch buttons	C W T U	DPT 1.003 1bit
This communication objects are used to set the panel system parameters.				

8	General	Trigger left of Rock A	1 bit	C	-	W	T	U	
9	General	Trigger right of Rock A	1 bit	C	-	W	T	U	
10	General	Trigger left of Rock B	1 bit	C	-	W	T	U	
11	General	Trigger right of Rock B	1 bit	C	-	W	T	U	
12	General	Trigger left of Rock C	1 bit	C	-	W	T	U	
13	General	Trigger right of Rock C	1 bit	C	-	W	T	U	
14	General	Trigger left of Rock D	1 bit	C	-	W	T	U	
15	General	Trigger right of Rock D	1 bit	C	-	W	T	U	
16	General	Trigger left of Rock E	1 bit	C	-	W	T	U	
17	General	Trigger right of Rock E	1 bit	C	-	W	T	U	
18	General	Trigger left of Rock F	1 bit	C	-	W	T	U	
19	General	Trigger right of Rock F	1 bit	C	-	W	T	U	
20	General	Trigger left of Rock G	1 bit	C	-	W	T	U	
21	General	Trigger right of Rock G	1 bit	C	-	W	T	U	
22	General	Trigger left of Rock H	1 bit	C	-	W	T	U	
23	General	Trigger right of Rock H	1 bit	C	-	W	T	U	
24	General	Trigger left of Rock I	1 bit	C	-	W	T	U	
25	General	Trigger right of Rock I	1 bit	C	-	W	T	U	
26	General	Trigger left of Rock J	1 bit	C	-	W	T	U	
27	General	Trigger right of Rock J	1 bit	C	-	W	T	U	
28	General	Trigger right of Rock K	1 bit	C	-	W	T	U	
29	General	Trigger right of Rock K	1 bit	C	-	W	T	U	
30	General	Trigger left of Rock L	1 bit	C	-	W	T	U	
31	General	Trigger right of Rock L	1 bit	C	-	W	T	U	

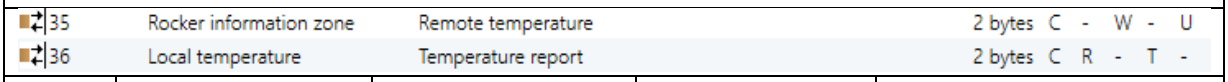
8~31	General	Trigger left of Rock A Trigger right of Rock A ... Trigger left of Rock L Trigger right of Rock L	C W T U	DPT 1.017 1bit

This communication objects are used to set the panel system parameters.



32	Slave clock	Network datetime	C W T U	DPT 19.001 8 bytes
33	Slave clock	Network date	C W T U	DPT 11.001 3 bytes
34	Slave clock	Network time	C W T U	DPT 10.001 3 bytes

This communication objectsare used to set the panel time.

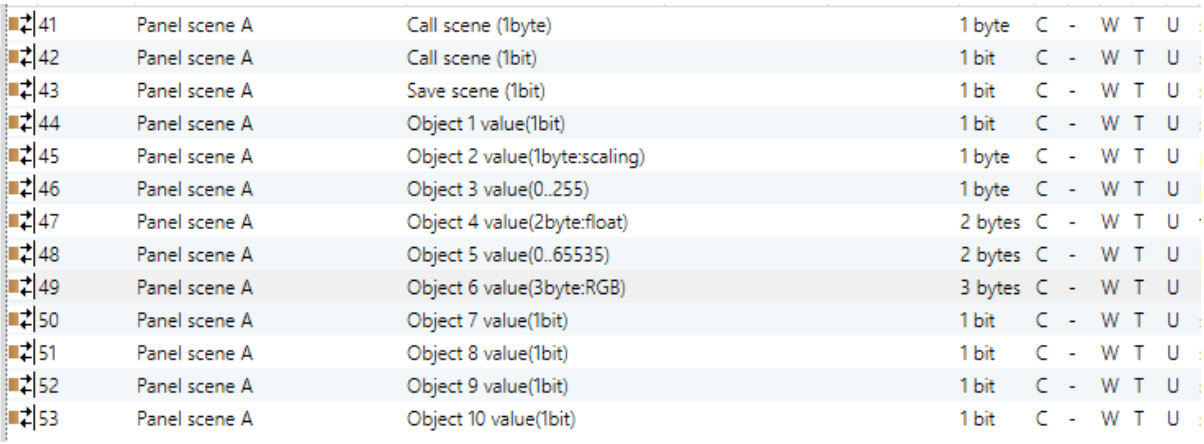


35	Rocker information zone	Remote temperature	C W U	DPT 9.001 2 bytes
36	Local temperature	Temperature report	C R T	DPT 9.001 2 bytes

This communication objects are used to set the panel temperature.

D.1 PanelScene

Objects “Panel Scene”



NO.	Object name	Function	Flags	Data type
41	Panel scene A	Call scene(1byte)	C W T U	DPT 18.001 1byte
42	Panel scene A	Call scene(1bit)	C W T U	DPT 1.001 1 bit

This communication object isused to call scene, the data type is different.

43	Panel scene A	Save scene(1bit)	C W T U	DPT 1.007 1 bit

Thiscommunication objectis saves scene. If you set a scene and dim it, then you save it, when you call this scene the brightness is your save last time.

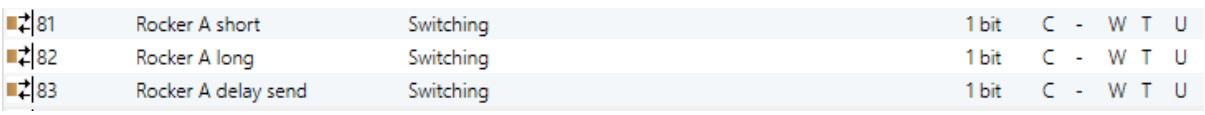
44 ... 53	Panel scene A	Object 1~10 value 1bit value	C W T U	DPT1.001 1 bit
		1byte value(0..100%)		DPT5.001 1 byte
		1byte value(0..255)		DPT5.004 1 byte
		2byte value(Float)		DPT9.001 2bytes
		2byte value(0..65535)		DPT7.001 2bytes
		3byte value(RGB)		DPT232.600 3bytes
This communication object is the object value about scene A. The object has 5 types data types.				
61 ... 73	Panel scene B	Same to scene A		

D2 Page 1~3

Objects'' page 1 rockerA'' (81~89)

1. Switch controller

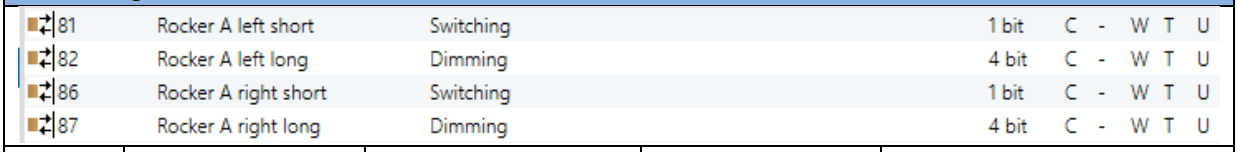
NO.	Object name	Function	Flags	Data type
81	Rocker A left short	Switching	C W T U	DPT 1.001 1bit
82	Rocker A left long			
83	Rocker A left delay send			
86	Rocker A right short			
87	Rocker A left long			
88	Rocker A right delay send			



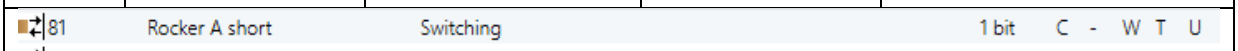
NO.	Object name	Function	Flags	Data type
81	Rocker A short	Switching	C W T U	DPT 1.001 1bit
82	Rocker A long			
83	Rocker A delay send			

This communication object is used to switch controller. The group address are same to switch channels, when you operation the cell, the switch channels will be controlled.

2. Dimming controller



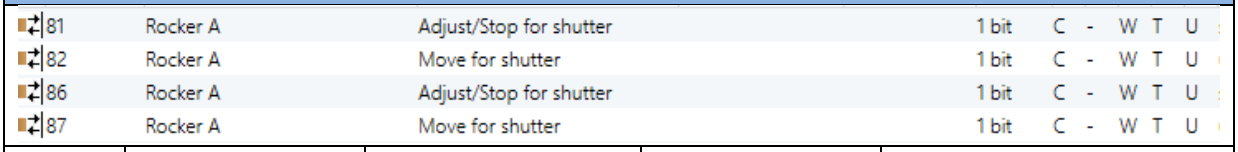
NO.	Object name	Function	Flags	Data type
81	Rocker A left short	Switching	C W T U	DPT 1.001 1bit
82	Rocker A left long	Dimming	C W T U	DPT 3.007 4bit
86	Rocker A left long	Switching	C W T U	DPT 1.001 1bit
87	Rocker A left long	Dimming	C W T U	DPT 3.007 4bit



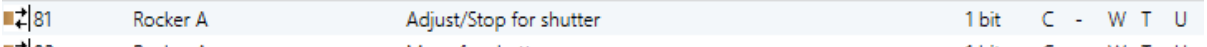
81	Rocker A short	Switching	C W T U	DPT 1.001 1bit
82	Rocker A long	Dimming	C W T U	DPT 3.007 4bit

This communication object isused to dimming controller. The group address aresame to dimmer channels, when you operation the cell, the dimmer channels will be controlled.

3. Shutter controller



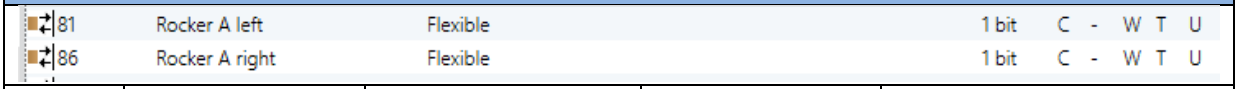
81	Rocker A	Adjust/Stop for shutter	C W T U	DPT 1.001 1bit
82	Rocker A	Move for shutter	C W T U	DPT 1.001 1bit
86	Rocker A	Adjust/Stop for shutter	C W T U	DPT 1.001 1bit
87	Rocker A	Move for shutter	C W T U	DPT 1.001 1bit



81	Rocker A	Adjust/Stop for shutter	C W T U	DPT 1.001 1bit
82	Rocker A	Move for shutter	C W T U	DPT 1.001 1bit

This communication object is used to shutter controller.

4. Flexible controller

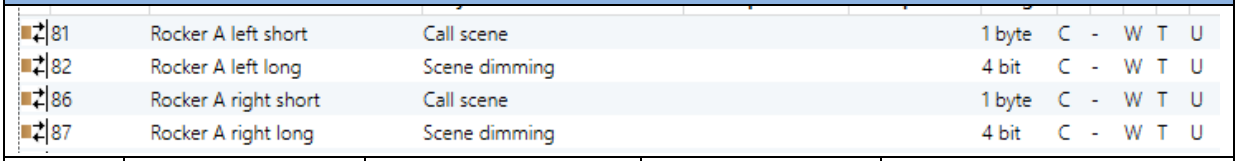


NO.	Object name	Function	Flags	Data type
81	Rocker A left	Flexible	C W T U	DPT 1.001 1bit
86	Rocker A right	Flexible	C W T U	DPT 1.001 1bit

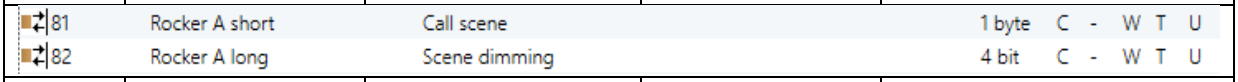
81	Rocker A	Flexible	C W T U	DPT 1.001 1bit

This communication object is used to Flexible controller.

5. Scene controller



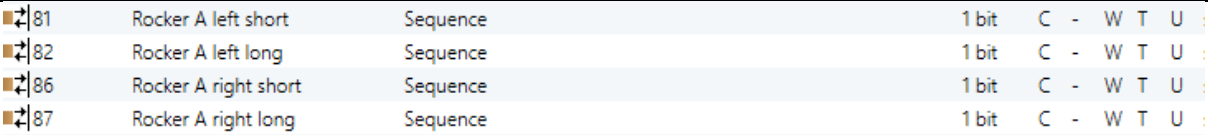
NO.	Object name	Function	Flags	Data type
81	Rocker A left short	Call scene	C W T U	DPT 18.001 1byte
82	Rocker A left long	Scene dimming	C W T U	DPT 3.007 4bit
86	Rocker A right short	Call scene	C W T U	DPT 18.001 1byte
87	Rocker A right long	Scene dimming	C W T U	DPT 3.007 4bit



81	Rocker A short	Call scene	C W T U	DPT 18.001 1byte
82	Rocker A long	Scene dimming	C W T U	DPT 3.007 4bit

This communication object isused to scene controller.

6. Sequence controller



NO.	Object name	Function	Flags	Data type
81	Rocker A left short	Sequence	C W T U	DPT 1.010 1bit

82	Rocker A left long	Sequence	C W T U	DPT 1.010 1bit
86	Rocker A right short	Sequence	C W T U	DPT 1.010 1bit
87	Rocker A right long	Sequence	C W T U	DPT 1.010 1bit

81	Rocker A short	Sequence	1 bit C - W T U	
82	Rocker A long	Sequence	1 bit C - W T U	
81	Rocker A short	Sequence	C W T U	DPT 1.010 1bit
82	Rocker A long	Sequence	C W T U	DPT 1.010 1bit

This communication object isused to sequence controller.

7. Percentage controller

81	Rocker A left	Percentage	1 byte C - W T U	
86	Rocker A right	Percentage	1 byte C - W T U	
NO.	Object name	Function	Flags	Data type
81	Rocker A left	Percentage	C W T U	DPT 5.001 1byte
86	Rocker A right	Percentage	C W T U	DPT 5.001 1byte

81	Rocker A	Percentage	1 byte C - W T U	
81	Rocker A	Percentage	C W T U	DPT 5.001 1byte

This communication object isused to percentage controller.

8. Threshold controller

81	Rocker A left	Threshold(1byte)	1 byte C - W T U	
86	Rocker A right	Threshold(2bytes)	2 bytes C - W T U	
NO.	Object name	Function	Flags	Data type
81	Rocker A left	Threshold(1byte)	C W T U	DPT 5.004 1byte
86	Rocker A right	Threshold(2bytes)	C W T U	DPT 7.001 2 bytes

81	Rocker A	Threshold(2bytes float)	2 bytes C - W T U	
81	Rocker A	Threshold(2bytes float)	C W T U	DPT 9.001 2 bytes

This communication object isused to percentage controller.

9. String(14bytes) controller

81	Rocker A left	String(14bytes) value	14 bytes C - W T U
86	Rocker A right	String(14bytes) value	14 bytes C - W T U

NO.	Object name	Function	Flags	Data type
81	Rocker A left	String(14bytes) value	C W T U	DPT 16.000 14bytes
86	Rocker A right	String(14bytes) value	C W T U	DPT 16.000 14 bytes

81	Rocker A	String(14bytes) value	14 bytes	C	-	W	T	U

81	Rocker A	String(14bytes) value	C W T U	DPT 16.000 14 bytes
This communication object isused to string(14bytes)controller.				

10. Alternate controller								
81	Rocker A left	Alternate <1> (1bit)	1 bit	C	-	W	T	U
82	Rocker A left	Alternate <2> (1bit)	1 bit	C	-	W	T	U
83	Rocker A left	Alternate <3> (1byte)	1 byte	C	-	W	T	U
84	Rocker A left	Alternate <4> (2bytes)	2 bytes	C	-	W	T	U
86	Rocker A right	Alternate <1> (1bit)	1 bit	C	-	W	T	U
87	Rocker A right	Alternate <2> (1bit)	1 bit	C	-	W	T	U
88	Rocker A right	Alternate <3> (1byte)	1 byte	C	-	W	T	U
89	Rocker A right	Alternate <4> (2bytes)	2 bytes	C	-	W	T	U

NO.	Object name	Function	Flags	Data type
81	Rocker A left	Alternate <1> (1bit)	C W T U	DPT 1.001 1 bit
82	Rocker Aleft	Alternate <2> (1bit)	C W T U	DPT 1.001 1 bit
83	Rocker A left	Alternate <3> (1byte)	C W T U	DPT 5.004 1byte
84	Rocker A left	Alternate <4> (2bytes)	C W T U	DPT 7.001 2bytes
86	Rocker A right	Alternate <1> (1bit)	C W T U	DPT 1.001 1 bit
87	Rocker A right	Alternate <2> (1bit)	C W T U	DPT 1.001 1 bit
88	Rocker A right	Alternate <3> (1byte)	C W T U	DPT 5.004 1byte
89	Rocker A right	Alternate <4> (2bytes)	C W T U	DPT 7.001 2bytes

81	Rocker A	Alternate <1> (1bit)	1 bit	C	-	W	T	U
82	Rocker A	Alternate <2> (1bit)	1 bit	C	-	W	T	U
83	Rocker A	Alternate <3> (1byte)	1 byte	C	-	W	T	U
84	Rocker A	Alternate <4> (2bytes)	2 bytes	C	-	W	T	U

81	Rocker A	Alternate <1> (1bit)	C W T U	DPT 1.001 1 bit
82	Rocker A	Alternate <2> (1bit)	C W T U	DPT 1.001 1 bit
83	Rocker A	Alternate <3> (1byte)	C W T U	DPT 5.004 1byte

84	Rocker A	Alternate <4> (2bytes)	C W T U	DPT 7.001 2bytes
This communication object isused to alternate controller.				

11. Pulse controller				
81	Rocker A left	Pulse	1 bit	C - W T U
86	Rocker A right	Pulse	1 bit	C - W T U
NO.	Object name	Function	Flags	Data type
81	Rocker A left	Pulse	C W T U	DPT 1.009 1 bit
86	Rocker A right	Pulse	C W T U	DPT 1.009 1 bit
This communication object isused to pulse controller.				

12. RGB controller				
81	Rocker A left	RGB red channel	1 byte	C - W T U
82	Rocker A left	RGB green channel	1 byte	C - W T U
83	Rocker A left	RGB blue channel	1 byte	C - W T U
86	Rocker A right	RGB color	3 bytes	C - W T U
NO.	Object name	Function	Flags	Data type
81	Rocker A left	RGB red channel	C W T U	DPT 5.001 1 byte
82	Rocker A left	RGB green channel	C W T U	DPT 5.001 1 byte
83	Rocker A left	RGB blue channel	C W T U	DPT 5.004 1byte
86	Rocker A right	RGB color	C W T U	DPT 232.600 3bytes
81	Rocker A	RGB red channel	1 byte	C - W T U
82	Rocker A	RGB green channel	1 byte	C - W T U
83	Rocker A	RGB blue channel	1 byte	C - W T U
81	Rocker A	RGB red channel	C W T U	DPT 5.001 1 byte
82	Rocker A	RGB green channel	C W T U	DPT 5.001 1 byte
83	Rocker A	RGB blue channel	C W T U	DPT 5.004 1byte
This communication object isused to RGB controller.				

13. Fan controller				
81	Rocker A left	Fan object 1	1 bit	C - W T U switch
82	Rocker A left	Fan object 2	1 bit	C - W T U switch
86	Rocker A right	Fan object 1	1 bit	C - W T U switch
87	Rocker A right	Fan object 2	1 bit	C - W T U switch
88	Rocker A right	Fan object 3	1 bit	C - W T U switch

NO.	Object name	Function	Flags	Data type
81	Rocker A left	Fan object 1	C W T U	DPT 1.001 1 bit
82	Rocker A left	Fan object 2	C W T U	DPT 1.001 1 bit
86	Rocker A right	Fan object 1	C W T U	DPT 1.001 1 bit
87	Rocker A right	Fan object 2	C W T U	DPT 1.001 1 bit
88	Rocker A right	Fan object 3	C W T U	DPT 1.001 1 bit

81	Rocker A	Fan object 1	1 bit	C - W T U
82	Rocker A	Fan object 2	1 bit	C - W T U
83	Rocker A	Fan object 3	1 bit	C - W T U
84	Rocker A	Fan object 4	1 bit	C - W T U

NO.	Object name	Function	Flags	Data type
81	Rocker A	Fan object 1	C W T U	DPT 1.001 1 bit
82	Rocker A	Fan object 2	C W T U	DPT 1.001 1 bit
83	Rocker A	Fan object 3	C W T U	DPT 1.001 1 bit
84	Rocker A	Fan object 4	C W T U	DPT 1.001 1 bit

This communication object is used to Fan controller.

14. Combination controller

81	Rocker A left	COMB OBJ1 switching	1 bit	C - - T -
82	Rocker A left	COMB OBJ2 shutter	1 bit	C - - T -
83	Rocker A left	COMB OBJ3 scene	1 byte	C - - T -
84	Rocker A left	COMB OBJ4 sequence	1 bit	C - - T -
86	Rocker A right	COMB OBJ1 percentage	1 byte	C - - T -
87	Rocker A right	COMB OBJ2 threshold(0..255)	1 byte	C - - T -
88	Rocker A right	COMB OBJ3 threshold(0..655...	2 bytes	C - - T -
89	Rocker A right	COMB OBJ4 String(14bytes)	14 bytes	C - - T -

NO.	Object name	Function	Flags	Data type
81	Rocker A left	COMB OBJ1 switching	C T	DPT 1.001 1 bit
82	Rocker A left	COMB OBJ2 shutter	C T	DPT 1.008 1 bit
83	Rocker A left	COMB OBJ3scene	C T	DPT 18.001 1 byte
84	Rocker A left	COMB OBJ4 sequence	C T	DPT 1.010 1 bit
86	Rocker A right	COMB OBJ1	C T	DPT 5.001 1 byte

		percentage		
87	Rocker A right	COMB OBJ2threshold (0...255)	C T	DPT 5.004 1 byte
88	Rocker A right	COMB OBJ3 threshold (0...65535)	C T	DPT 7.001 2 bytes
89	Rocker A right	COMB OBJ3 String(14bytes)	C T	DPT 16.000 14 bytes

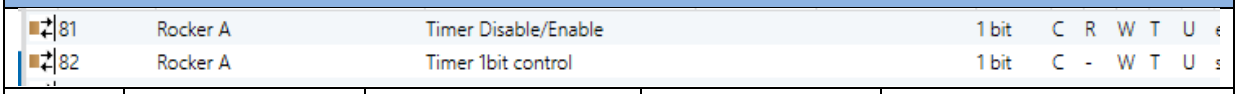
81	Rocker A	COMB OBJ1 switching	1 bit	C	-	-	T	-		
82	Rocker A	COMB OBJ2 shutter	1 bit	C	-	-	T	-		
83	Rocker A	COMB OBJ3 scene	1 byte	C	-	-	T	-		
84	Rocker A	COMB OBJ4 sequence	1 bit	C	-	-	T	-		
86	Rocker A	COMB OBJ5 percentage	1 byte	C	-	-	T	-		
87	Rocker A	COMB OBJ6 threshold(0..255)	1 byte	C	-	-	T	-		
88	Rocker A	COMB OBJ7 threshold(0..65535)	2 bytes	C	-	-	T	-		
89	Rocker A	COMB OBJ8 String(14bytes)	14 bytes	C	-	-	T	-		

NO.	Object name	Function	Flags	Data type
81	Rocker A	COMB OBJ1 switching	C T	DPT 1.001 1 bit
82	Rocker A	COMB OBJ2 shutter	C T	DPT 1.008 1 bit
83	Rocker A	COMB OBJ3scene	C T	DPT 18.001 1 byte
84	Rocker A	COMB OBJ4 sequence	C T	DPT 1.010 1 bit
86	Rocker A	COMB OBJ1 percentage	C T	DPT 5.001 1 byte
87	Rocker A	COMB OBJ2threshold (0...255)	C T	DPT 5.004 1 byte
88	Rocker A	COMB OBJ3 threshold (0...65535)	C T	DPT 7.001 2 bytes
89	Rocker A	COMB OBJ3 String(14bytes)	C T	DPT 16.000 14 bytes
This communication object isused to combination controller. each button object type can be set different.				

15. Thermostat controller										
81	Rocker A	Thermostat switch ON/OFF	1 bit	C	R	W	T	U	s	
82	Rocker A	Thermostat set temperature	2 bytes	C	R	W	T	U	t	
83	Rocker A	Thermostat actual temperature	2 bytes	C	R	W	T	U	t	
84	Rocker A	Thermostat output	1 bit	C	-	W	T	U	s	

NO.	Object name	Function	Flags	Data type
81	Rocker A	Thermostat switch ON/OFF	C R W T U	DPT 1.001 1 bit
82	Rocker A	Thermostat set temperature	C R W T U	DPT 9.001 2 bytes
83	Rocker A	Thermostat actual temperature	C R W T U	DPT 9.001 2 bytes
84	Rocker A	Thermostat output	C W T U	DPT 1.001 1 bit
This communication object isused tothermostatcontroller.				

16. Timer controller



NO.	Object name	Function	Flags	Data type
81	Rocker A	Timer Disable/Enable	C R W T U	DPT 1.003 1 bit
82	Rocker A	Timer 1bit control	C W T U	DPT 1.001 1 bit
This communication object isused to Timercontroller.				
The setting page 2 to 3 are same to page 1.				

D3 [FCU]

Objects “HVAC”

NO.	Object name	Function	Flags	Data type
201	HVAC Fan	Temperature from EIB	C WU	DPT 9.001 2 bytes
This communication object is used to HVAC actual temperature.				
218	HVAC Fan	Fan speed 1	C W T U	DPT 1.001 1 bit
219	HVAC Fan	Fan speed 2	C W T U	DPT 1.001 1 bit

220	HVAC Fan	Fan speed 3	C W T U	DPT 1.001 1 bit
221	HVAC Fan	Status fan speed 1	C W T U	DPT 1.001 1 bit
222	HVAC Fan	Status fan speed 2	C W T U	DPT 1.001 1 bit
223	HVAC Fan	Status fan speed 3	C W T U	DPT 1.001 1 bit
This communication object is for HVAC fan.				
232	HVAC Output	Relay-Fan speed1	C W T	DPT 1.001 1 bit
233	HVAC Output	Relay-Fan speed2	C W T	DPT 1.001 1 bit
234	HVAC Output	Relay-Fan speed3	C W T	DPT 1.001 1 bit
This communication object is for HVAC output.				

201	HVAC Actual temperature	Actual temperature	2 bytes	C	-	W	T	U
202	HVAC Actual temperature	Actual temp. error signal	1 bit	C	-	W	T	U
203	HVAC Actual temperature	Frost/heat alarm error signal	1 bit	C	-	W	T	U
204	HVAC Setpoint	Base setpoint temperature	2 bytes	C	-	W	T	U
205	HVAC Setpoint	Instantaneous setpoint temp.	2 bytes	C	-	W	T	U
207	HVAC control mode	Automatic heating/cooling...	1 bit	C	-	W	T	U
208	HVAC control mode	Activation of heating mode	1 bit	C	-	W	T	U
209	HVAC control mode	Activation of cooling mode	1 bit	C	-	W	T	U
210	HVAC control mode	Activation of fan only	1 bit	C	-	W	T	U
212	HVAC mode	ON CMD for comfort mode	1 bit	C	-	W	T	U
213	HVAC mode	ON CMD for standby mode	1 bit	C	-	W	T	U
214	HVAC mode	ON CMD for night mode	1 bit	C	-	W	T	U
215	HVAC mode	ON CMD for building protec...	1 bit	C	-	W	T	U
216	HVAC Fan	Fan speed automatic	1 bit	C	-	W	T	U
218	HVAC Fan	Fan speed 1	1 bit	C	-	W	T	U
219	HVAC Fan	Fan speed 2	1 bit	C	-	W	T	U
220	HVAC Fan	Fan speed 3	1 bit	C	-	W	T	U
221	HVAC Fan	Status fan speed 1	1 bit	C	-	W	T	U
222	HVAC Fan	Status fan speed 2	1 bit	C	-	W	T	U
223	HVAC Fan	Status fan speed 3	1 bit	C	-	W	T	U
225	HVAC Fan	Status fan speed automatic	1 bit	C	-	W	T	U
226	HVAC Valve Heating	Trigger valve purge	1 bit	C	-	W	T	-
227	HVAC Valve Heating	Status valve purge	1 bit	C	-	W	T	U
228	HVAC Valve Cooling	Trigger valve purge	1 bit	C	-	W	T	-

201	HVAC Actual temperature	Actual temperature	C W T U	DPT 9.001 2 bytes
202	HVAC Actual temperature	Actual temp. error signal	C W T U	DPT 1.005 1 bit
203	HVAC Actual temperature	Frost/heat alarm error signal	C W T U	DPT 1.005 1 bit
This communication object is used to HVAC actual temperature.				
204	HVAC Setpoint	Base setpoint temperature	C W T U	DPT 9.001 2 bytes

205	HVAC Setpoint	Instantaneous setpoint temp.	C W T U	DPT 9.001 2 bytes
This communication object is for air-condition wind.				
207	HVAC control mode	Automatic heating/cooling	C W T U	DPT 1.003 1 bit
208	HVAC control mode	Activation of heating mode	C W T U	DPT 1.003 1 bit
209	HVAC control mode	Activation of cooling mode	C W T U	DPT 1.003 1 bit
210	HVAC control mode	Activation of fan only	C W T U	DPT 1.003 1 bit
This communication object is for HVAC control mode.				
212	HVAC mode	ON CMD for comfort mode	C W T U	DPT 1.001 1 bit
213	HVAC mode	ON CMD for standby mode	C W T U	DPT 1.001 1 bit
214	HVAC mode	ON CMD for night mode	C W T U	DPT 1.001 1 bit
215	HVAC mode	ON CMD for building protection	C W T U	DPT 1.001 1 bit
This communication object is for HVAC mode.				
216	HVAC Fan	Fan speed automatic	C W T U	DPT 1.003 1 bit
218	HVAC Fan	Fan speed 1	C W T U	DPT 1.001 1 bit
219	HVAC Fan	Fan speed 2	C W T U	DPT 1.001 1 bit
220	HVAC Fan	Fan speed 3	C W T U	DPT 1.001 1 bit
221	HVAC Fan	Status fan speed 1	C W T U	DPT 1.001 1 bit
222	HVAC Fan	Status fan speed 2	C W T U	DPT 1.001 1 bit
223	HVAC Fan	Status fan speed 3	C W T U	DPT 1.001 1 bit
225	HVAC Fan	Status fan speed automatic	C W T U	DPT 1.003 1 bit
This communication object is for HVAC fan.				
226	HVAC Valve Heating	Trigger valve purge	C W T	DPT 1.017 1 bit
227	HVAC Valve Heating	Status valve purge	C W T U	DPT 1.003 1 bit

228	HVAC Valve Cooling	Trigger valve purge	C W T	DPT 1.017 1 bit
229	HVAC Valve Cooling	Status valve purge	C W T U	DPT 1.003 1 bit
This communication object is for HVAC heating/cooling.				
230	HVAC Output	Relay-Heating	C W T	DPT 1.001 1 bit
231	HVAC Output	Relay-Cooling	C W T	DPT 1.001 1 bit
232	HVAC Output	Relay-Fan speed1	C W T	DPT 1.001 1 bit
233	HVAC Output	Relay-Fan speed2	C W T	DPT 1.001 1 bit
234	HVAC Output	Relay-Fan speed3	C W T	DPT 1.001 1 bit
This communication object is for HVAC output.				

D4 Air-condition

Objects “Air-condition”				
296	Air-condition	Switch ON/OFF	1 bit	C - W T U
297	Air-condition Temperature	Actual temperature from EIB	2 bytes	C - W T U
298	Air-condition Temperature	Setpoint temperature	2 bytes	C - W T U
299	Air-condition Fan	ON CMD for automatic	1 bit	C - W T U
300	Air-condition Fan	ON CMD for low speed	1 bit	C - W T U
301	Air-condition Fan	ON CMD for medium speed	1 bit	C - W T U
302	Air-condition Fan	ON CMD for high speed	1 bit	C - W T U
303	Air-condition Wind	Wind swing('1'-swing,'0'-stop)	1 bit	C - W T U
304	Air-condition Mode	ON CMD for automatic	1 bit	C - W T U
305	Air-condition Mode	ON CMD for cooling	1 bit	C - W T U
306	Air-condition Mode	ON CMD for heating	1 bit	C - W T U
307	Air-condition Mode	ON CMD for dehumidification	1 bit	C - W T U
308	Air-condition Mode	ON CMD for fan	1 bit	C - W T U
309	Air-condition Output	Relay-Heating	1 bit	C - W T U
310	Air-condition Output	Relay-Cooling	1 bit	C - W T U
311	Air-condition Output	Relay-Fan low speed	1 bit	C - W T U
312	Air-condition Output	Relay-Fan medium speed	1 bit	C - W T U
313	Air-condition Output	Relay-Fan hight speed	1 bit	C - W T U

NO.	Object name	Function	Flags	Data type
296	Air-condition	Switch ON/OFF	C W T U	DPT 1.001 1 bit
ON/Off the AC controller.				
297	Air-condition Temperature	Actual temperature from EIB	C W T U	DPT 9.001 2 bytes
298	Air-condition Temperature	Setpoint temperature	C W T U	DPT 9.001 2 bytes
This communication object is used to temperature, which from EIB or setpoint.				

299	Air-condition Fan	ON CMD for automatic	C W T U	DPT 1.001 1 bit
300	Air-condition Fan	ON CMD for low speed	C W T U	DPT 1.001 1 bit
301	Air-condition Fan	ON CMD for medium speed	C W T U	DPT 1.001 1 bit
302	Air-condition Fan	ON CMD for high speed	C W T U	DPT 1.001 1 bit
303	Air-condition Wind	Wind swing('1'-swing,'0'-stop)	C W T U	DPT 1.010 1 bit
This communication object is for air-condition wind.				
304	Air-condition Mode	ON CMD for automatic	C W T U	DPT 1.001 1 bit
305	Air-condition Mode	ON CMD for cooling	C W T U	DPT 1.001 1 bit
306	Air-condition Mode	ON CMD for heating	C W T U	DPT 1.001 1 bit
307	Air-condition Mode	ON CMD for dehumidification	C W T U	DPT 1.001 1 bit
308	Air-condition Mode	ON CMD for fan	C W T U	DPT 1.001 1 bit
This communication object is for air-condition mode.				
309	Air-condition Output	Relay-Heating	C W T U	DPT 1.001 1 bit
310	Air-condition Output	Relay-Cooling	C W T U	DPT 1.001 1 bit
311	Air-condition Output	Relay-Fan low speed	C W T U	DPT 1.001 1 bit
312	Air-condition Output	Relay-Fan medium speed	C W T U	DPT 1.001 1 bit
313	Air-condition Output	Relay-Fan high speed	C W T U	DPT 1.001 1 bit
This communication object is for air-condition output.				

D5 Floor Heating

Objects “Floor heating”

239	Floor Heating 0	Outdoor temperature	2 bytes	C	-	W	T	U
240	Floor Heating 0	Normal-mode setpoint Temp.	2 bytes	C	-	W	T	U
241	Floor Heating 0	Day-mode setpoint Temp.	2 bytes	C	-	W	T	U
242	Floor Heating 0	Night-mode setpoint Temp.	2 bytes	C	-	W	T	U
243	Floor Heating 0	Away-mode setpoint Temp.	2 bytes	C	-	W	T	U
244	Floor Heating 0	Preset 1 Temp. for timer mode	2 bytes	C	-	W	T	U
245	Floor Heating 0	Time of day for preset 1	3 bytes	C	-	W	T	U
246	Floor Heating 0	Start/Stop heating for preset1	1 bit	C	-	W	T	U
247	Floor Heating 0	Preset 2 Temp. for timer mode	2 bytes	C	-	W	T	U
248	Floor Heating 0	Time of day for preset 2	3 bytes	C	-	W	T	U
249	Floor Heating 0	Start/Stop heating for preset2	1 bit	C	-	W	T	U
250	Floor Heating 0	Preset 3 Temp. for timer mode	2 bytes	C	-	W	T	U
251	Floor Heating 0	Time of day for preset 3	3 bytes	C	-	W	T	U
252	Floor Heating 0	Start/Stop heating for preset3	1 bit	C	-	W	T	U
253	Floor Heating 0	Floor heating(1-ON,0-OFF)	1 bit	C	-	W	T	U
254	Floor Heating 0	ON CMD for Normal-mode	1 bit	C	-	W	T	U
255	Floor Heating 0	ON CMD for Day-mode	1 bit	C	-	W	T	U
256	Floor Heating 0	ON CMD for Night-mode	1 bit	C	-	W	T	U
257	Floor Heating 0	ON CMD for Away-mode	1 bit	C	-	W	T	U
258	Floor Heating 0	ON CMD for Timer-mode	1 bit	C	-	W	T	U
259	Floor Heating 0	Trigger valve purge	1 bit	C	-	W	T	-
260	Floor Heating 0	Status valve purge	1 bit	C	-	W	T	U
261	Floor Heating 0 Output	Safety protection temperature	2 bytes	C	-	W	T	U
262	Floor Heating 0 Output	Relay	1 bit	C	-	W	T	U

NO.	Object name	Function	Flags	Data type
239	Floor Heating 0	Outdoor temperature	C WT U	DPT 9.001 2 bytes
240	Floor Heating 0	Normal-mode setpoint Temp.	C W T U	DPT 9.001 2 bytes
241	Floor Heating 0	Day-mode setpoint Temp.	C W T U	DPT 9.001 2 bytes
242	Floor Heating 0	Night-mode setpoint Temp.	C W T U	DPT 9.001 2 bytes
243	Floor Heating 0	Away-mode setpoint Temp.	C W T U	DPT 9.001 2 bytes
244	Floor Heating 0	Preset 1 Temp. for timer mode	C W T U	DPT 9.001 2 bytes
245	Floor Heating 0	Time of day for preset 1	C W T U	DPT 10.001 3 bytes
246	Floor Heating 0	Start/Stop heating for preset1	C W T U	DPT 1.010 1 bit
247	Floor Heating 0	Preset 2 Temp. for timer mode	C W T U	DPT 9.001 2 bytes
248	Floor Heating 0	Time of day for preset 2	C W T U	DPT 10.001 3 bytes
249	Floor Heating 0	Start/Stop heating for preset2	C W T U	DPT 1.010 1 bit

250	Floor Heating 0	Preset 3 Temp. for timer mode	C W T U	DPT 9.001 2 bytes
251	Floor Heating 0	Time of day for preset 3	C W T U	DPT 10.001 3 bytes
252	Floor Heating 0	Start/Stop heating for preset3	C W T U	DPT 1.010 1 bit
253	Floor Heating 0	Floor heating(1-ON,0-OFF)	C W T U	DPT 1.001 1 bit
254	Floor Heating 0	ON CMD for Normal-mode	C W T U	DPT 1.001 1 bit
255	Floor Heating 0	ON CMD for Day-mode	C W T U	DPT 1.001 1 bit
256	Floor Heating 0	ON CMD for Night-mode	C W T U	DPT 1.001 1 bit
257	Floor Heating 0	ON CMD for Away-mode	C W T U	DPT 1.001 1 bit
258	Floor Heating 0	ON CMD for Timer-mode	C W T U	DPT 1.001 1 bit
259	Floor Heating 0	Trigger valve purge	C W T	DPT 1.017 1 bit
260	Floor Heating 0	Status valve purge	C W T U	DPT 1.003 1 bit
261	Floor Heating 0 Output	Safety protection temperature	C W T U	DPT 9.001 2 Bytes
This communication object is used to HVAC actual temperature.				
262	Floor Heating 0 Output	Relay	C W T U	DPT 1.001 1 bit
Thiscommunication objectis for floor heating. *The setting of Floor Heating1 is same to floor heating 0. the N0. is from 266 to 292*				

D6 Music controller

Objects “Music controller”

315	Audio controller	Start play	1 bit	C	-	W	T	U
316	Audio controller	Pause play	1 bit	C	-	W	T	U
317	Audio controller	Select song	1 bit	C	-	W	T	U
318	Audio controller	adjust volume	1 bit	C	-	W	T	U
319	Audio controller	Audio mute	1 bit	C	-	W	T	U
320	Audio controller	Select list	1 bit	C	-	W	T	U
321	Audio controller	Select source	1 byte	C	-	W	T	U
322	Audio controller	adjust bass	1 bit	C	-	W	T	U
323	Audio controller	adjust treble	1 bit	C	-	W	T	U
324	Audio controller	display information 1	14 bytes	C	-	W	T	U
325	Audio controller	display information 2	14 bytes	C	-	W	T	U
326	Audio controller	display information 3	14 bytes	C	-	W	T	U

NO.	Object name	Function	Flags	Data type
315	Audio controller	Start play	C WT U	DPT 1.010 1 bit
316	Audio controller	Pause play	C W T U	DPT 1.003 1 bit
317	Audio controller	Select song	C W T U	DPT 1.007 1 bit
318	Audio controller	adjust volume	C W T U	DPT 1.007 1 bit
319	Audio controller	Audio mute	C W T U	DPT 1.003 1 bit
320	Audio controller	Select list	C W T U	DPT 1.007 1 bit
321	Audio controller	Select source	C W T U	DPT 5.001 1 byte
322	Audio controller	adjust bass	C W T U	DPT 1.007 1 bit
323	Audio controller	adjust treble	C W T U	DPT 1.007 1 bit
324	Audio controller	display information 1	C W T U	DPT 16.000 14 bytes
325	Audio controller	display information 2	C W T U	DPT 16.000 14 bytes
326	Audio controller	display information 3	C W T U	DPT 16.000 14 bytes
This communication object isused to Music controller.				

附件：

--- End of Document ---