APPLICATION PROGRAM INFORMATION

HDL-EIB panel controller

KNX/EIB-BUS

Document Version: 1.0, Date: _____

This document describes the HDL-EIB panel-functions with the KNX-product-application:_____

Compiled by (english name):_____

HDL-Position:_____

Location:_____Date:_____ Signature:_____

Approved by (english name):_____

HDL-Position:_____

Location:_____Date:_____ Signature:_____

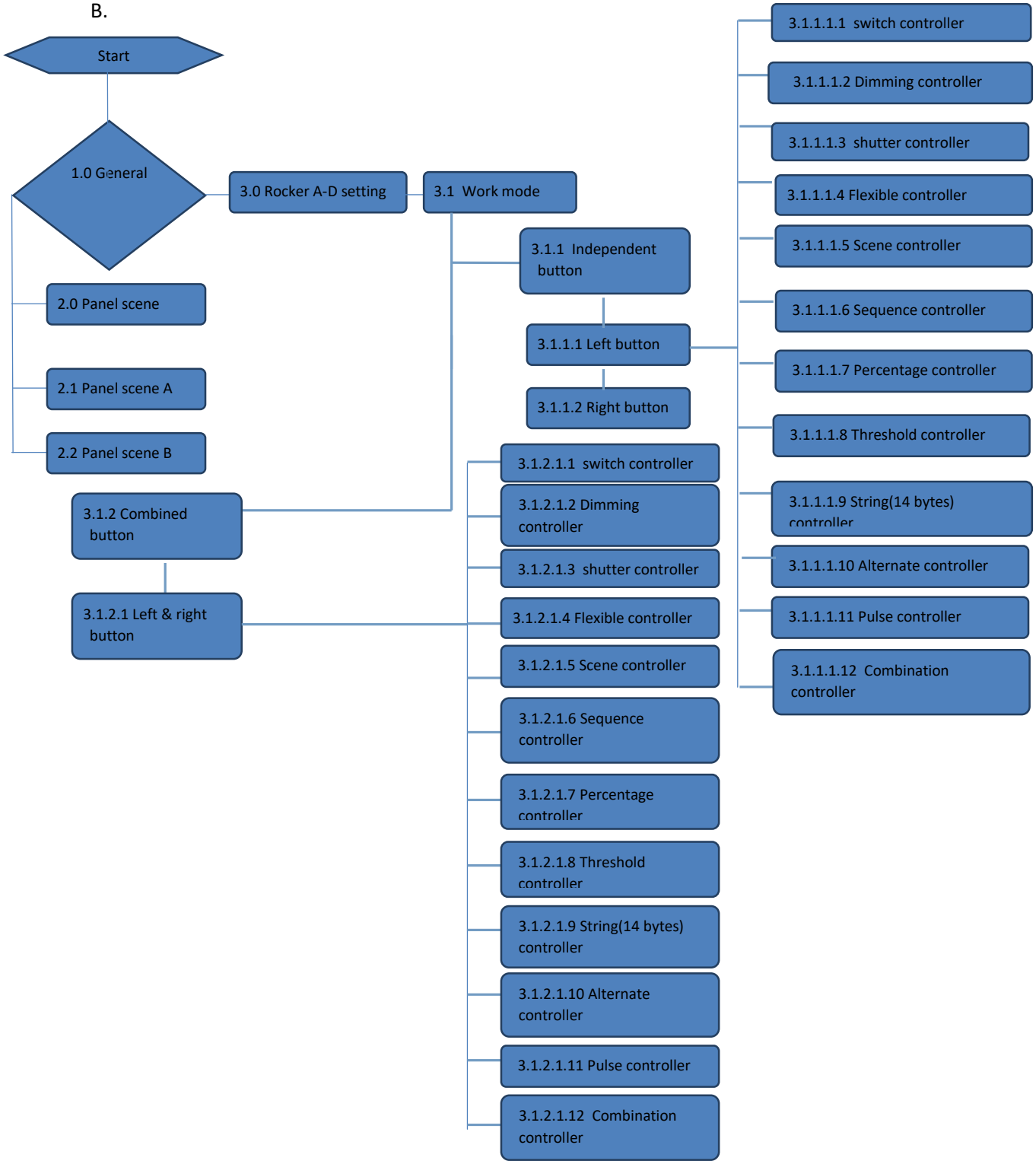
Document History			
Version	Date	Comments	Author (english name)
1.0	12.5.2015	First issue	Jie

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

A.

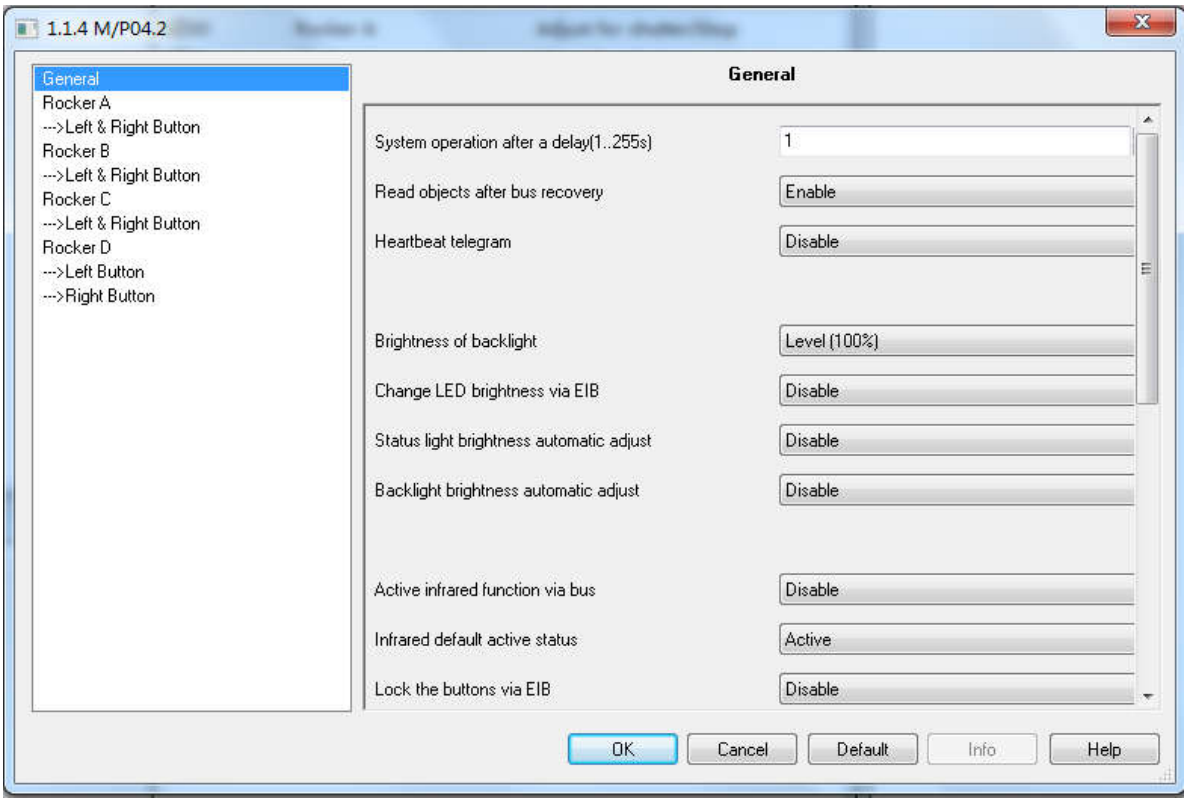
The Aus panel controller can work with other devices. This manual contains the programming of this device.

B.



C.

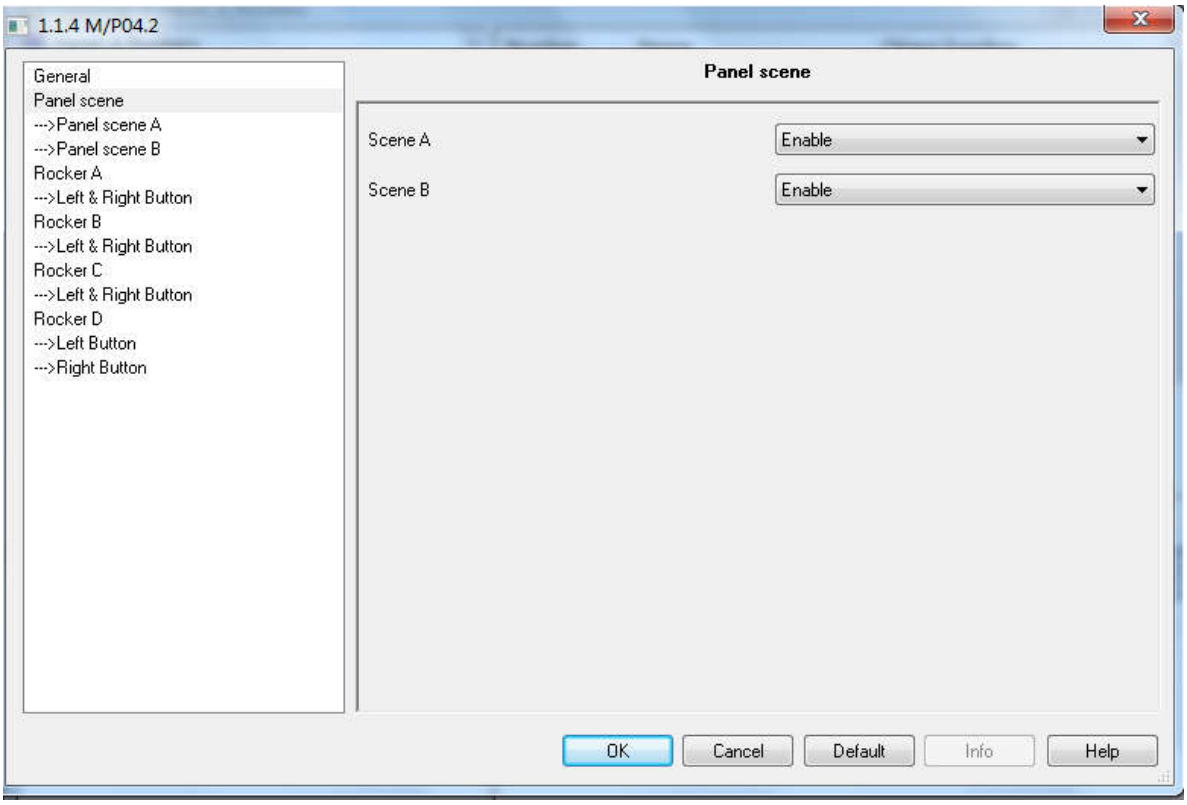
1.0_General



No.	ETS-Parameter	Range (default)	Description
1	System operation after a delay (1…255s)	(1)…255s	*Set the delay time for system operation*
2	Read objects after bus recovery	-(Enable) -Disable	*Enable/disable to read objects when power on again.*
3	Heartbeat telegram	-(Disable) -Send value “0” cyclically -Send value “1” cyclically - Send value “1/0” inverted cyclically	*Enable/disable heartbeat telegram* *Disable: cannot use 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 “0” 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”*
4	-Telegram is send time interval(1…65535s)	1…(5)…65535	*Set the interval time for sending*
5	Brightness of backlight	Level 0…(100)	*Set the brightness for backlight*
6	Change LED brightness via EIB	-(Disable) -Enable	*Enable or disable to change LED brightness*
7	Status light brightness automatic adjust	-Enable -(Disable)	*Enable/ disable the automatic adjust*
8	-If any LED is on, dim down	-Enable	*Enable/disable this function*

	automatically	-(Disable)	
9	--Dim down after a delay(3…255s)	3…(5)…255s	*Set the delay time for dim down*
10	--Brightness of status light	Level (00%) … (Level (01%)) Level (100%)	*Set the brightness for status light*
11	-If all LEDs are off, dim up automatically	-(Enable) -Disable	*Enable/disable this function*
12	--Dim up after a delay (3…255s)	3…(5)…255s	*Set the delay time for dim up*
13	--Brightness of status light	Level (00%) … (Level (01%)) Level (100%)	*Set the brightness for status light*
14	Backlight brightness automatic adjust	-Enable -(Disable)	*Enable/disable for automatic adjust*
15	-Brightness of backlight when no operation	-Level 0…(100)	*Set the brightness for backlight when no operation*
16	-Set brightness after a delay(3…255s)	3…(5)…255s	*Set the delay time for brightness*
17	Active infrared function via bus	-Enable -(Disable)	*Enable/disable for active infrared function via bus*
18	Infrared default active status	-(Active) -Inactive	*Set the status for infrared*
19	Lock the button via EIB	-Enable -(Disable)	*Enable/disable for locking the button*
20	Enable buttons triggered via EIB	-Enable -(Disable)	*Enable/disable for buttons trigger*
21	-Buttons triggered mode	-(“1”-Trigger) -“0”-Trigger -“1/0”-Trigger	“1”-Trigger: If receives the telegram value “1”, the button will be triggered “0”-Trigger: If receives the telegram value “0”, the button will be triggered “1/0”-Trigger: If receives the telegram value “1/0”, the button will be triggered
22	Panel scene	-Enable -(Disable)	*Enable/disable for panel scene*

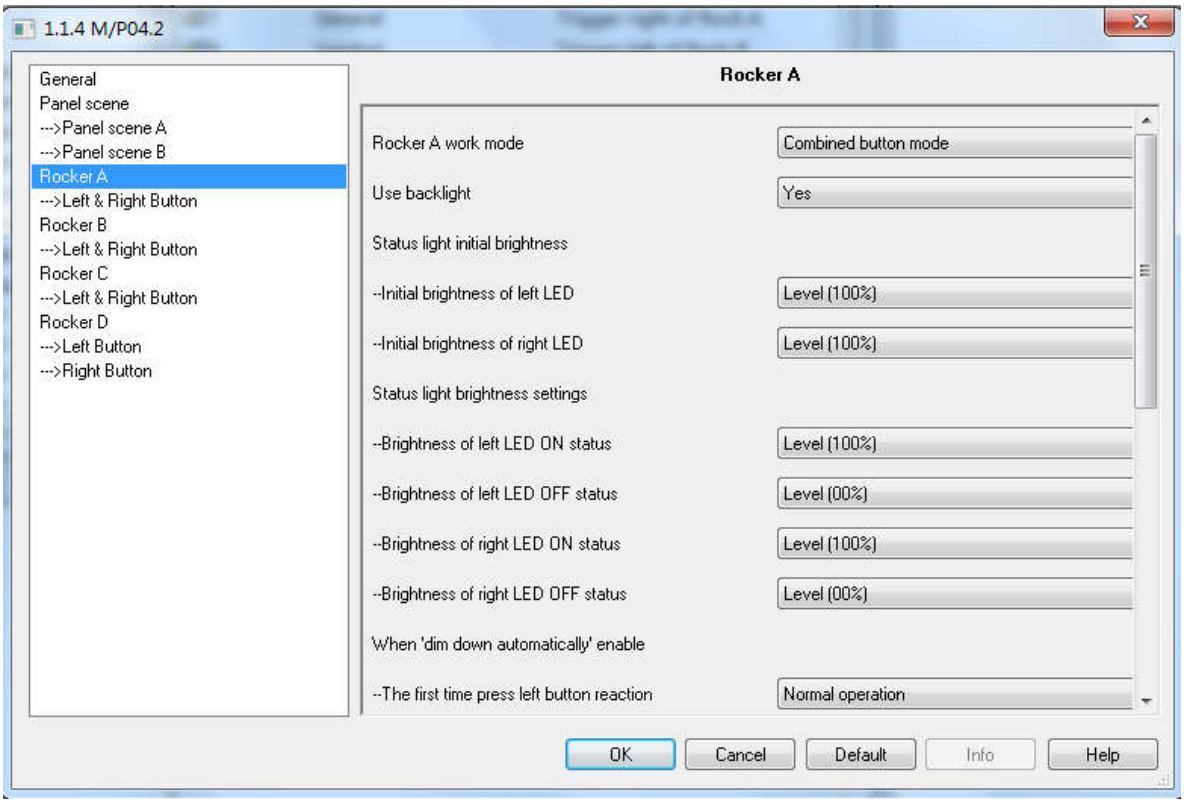
2.0_ Panel scene



No.	ETS-Parameter	Range (default)	Description
21	Scene A	-Enable -(Disable)	*Enable/disable for scene A*
22	Scene B	-Enable -(Disable)	*Enable/disable for scene B*
2.1_ Panel scene A (Panel scene A is same as scene B, here, take scene B as an example)			
23	Output assigned to (scene1…64)	-(Scene 01)…Scene 64	*Set the scene for output*
24	1 bit object control	-Enable -(Disable)	*Enable/disable for 1 bit object control*
25	--1 bit object control	-(Invalid) -“1”-Trigger -“0”-Trigger -“0/1”-Trigger	*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*
26	--1 bit object save	-(Invalid) -“1”-Save -“0”-Save -“0/1”-Save	*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
27	Entry delay time (0…255s)	(0)…255s	*Set the delay time for entry the scene*
28	Output object <1>…<10> type	-(Invalid) -1 bit value -1 byte value (0…100%) -1 byte value (0…255) -2 byte value (Float) -2 byte value (0…65535) -3 byte value (RGB)	*Set the value type for output object*
29	--Output objects 1…10 value (1 bit)	-(0) -1 -1/0	*Set the telegram value for output objects*
30	--Output objects 1…10 value (1 byte)	(0)…100%	*Set the percentage for output objects*
31	--Output objects 1…10 value (1 byte)	(0)…255	*Set the parameter for output objects*
32	--Scaling	-0.01 -0.1 -1.0	*Set the parameter for scaling*
33	--Output objects 1…10 value (2 byte)	(0)…255	*Set the parameter for output objects*
34	--Output objects 1…10 value (2 byte)	(0)…255	*Set the parameter for output objects*
35	--Output objects 1…10 value (3 byte:R)	0…(255)	*Set the parameter for 3byte: R*
36	--Output objects 1…10 value (3 byte:G)	0…(255)	*Set the parameter for 3byte: G*
37	--Output objects 1…10 value (3 byte:B)	0…(255)	*Set the parameter for 3byte: B*

3.0_Rocker A-D setting (Here take Rocker A as an example)

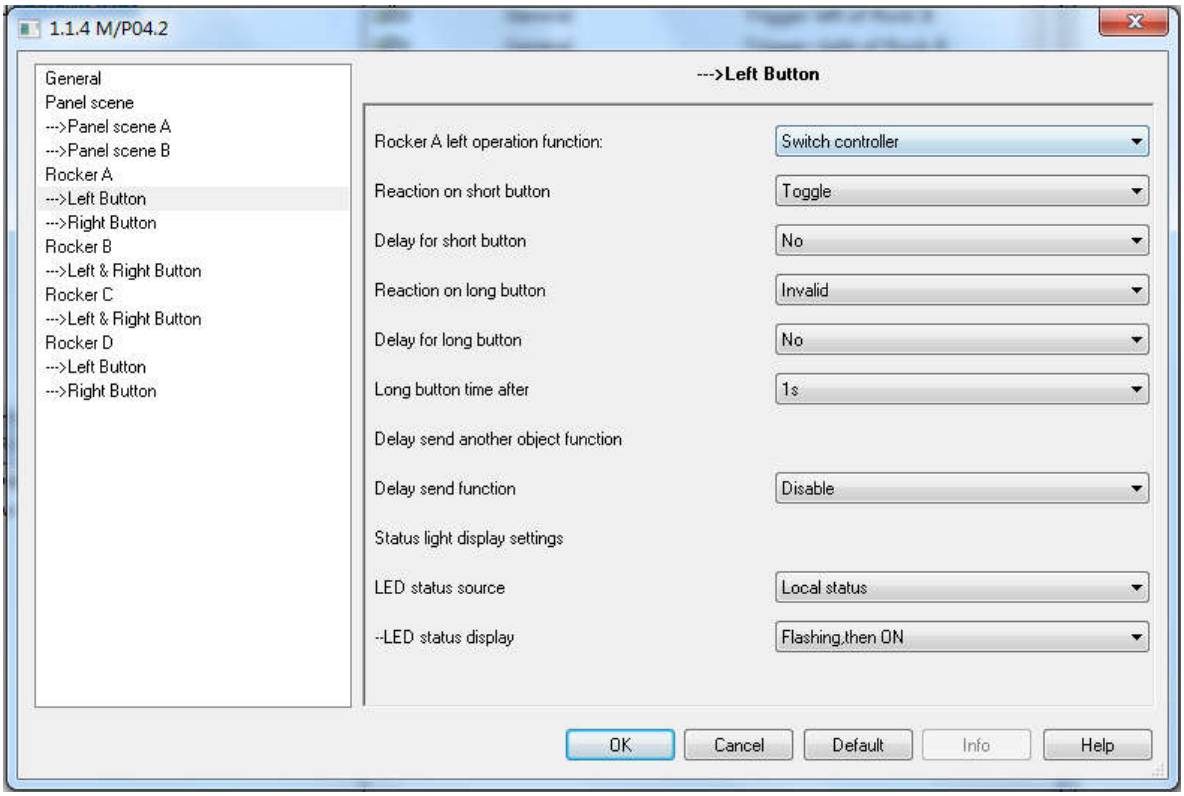


No.	ETS-Parameter	Range(default)	Description
38	Rocker A work mode	-(Combined button mode) -Independent button mode	*Set the work mode for Rocker A*
39	Use backlight	-(Yes) -No	*Enable/disable for using backlight*
Status light initial brightness			
40	--Initial brightness of left LED	Level 0…(100%)	*Set the percentage for initial brightness*
41	--Initial brightness of right LED	Level 0…(100%)	*Set the percentage for initial brightness*
Status light brightness setting			
42	--Brightness of left LED ON status	Level 0…(100%)	*Set the percentage for brightness of left LED ON status*
43	--Brightness of left LED OFF status	Level (0)…100%	*Set the percentage for brightness of left LED OFF status*
44	--Brightness of right LED ON status	Level 0…(100%)	*Set the percentage for brightness of right LED ON status*
45	--Brightness of Right LED OFF status	Level (0)…100%	*Set the percentage for brightness of right LED OFF status*
When ‘dim down automatically’ enable			
46	--The first time press left button reaction	-(Normal operation) -Brightness of ON status	*Set the parameter for left button reaction*
47	--The first time press right	-(Normal operation)	*Set the parameter for right button reaction*

	button reaction	-Brightness of ON status	
When 'dim up automatically' enable			
48	--The first time press left button reaction	-(Normal operation) -Brightness of ON status	*Set the parameter for left button reaction*
49	--The first time press right button reaction	-(Normal operation) -Brightness of ON status	*Set the parameter for right button reaction*

3.1_Work mode

3.1.1 Independent button mode (Left Button's setting is same as right button, here, take left button as an example)



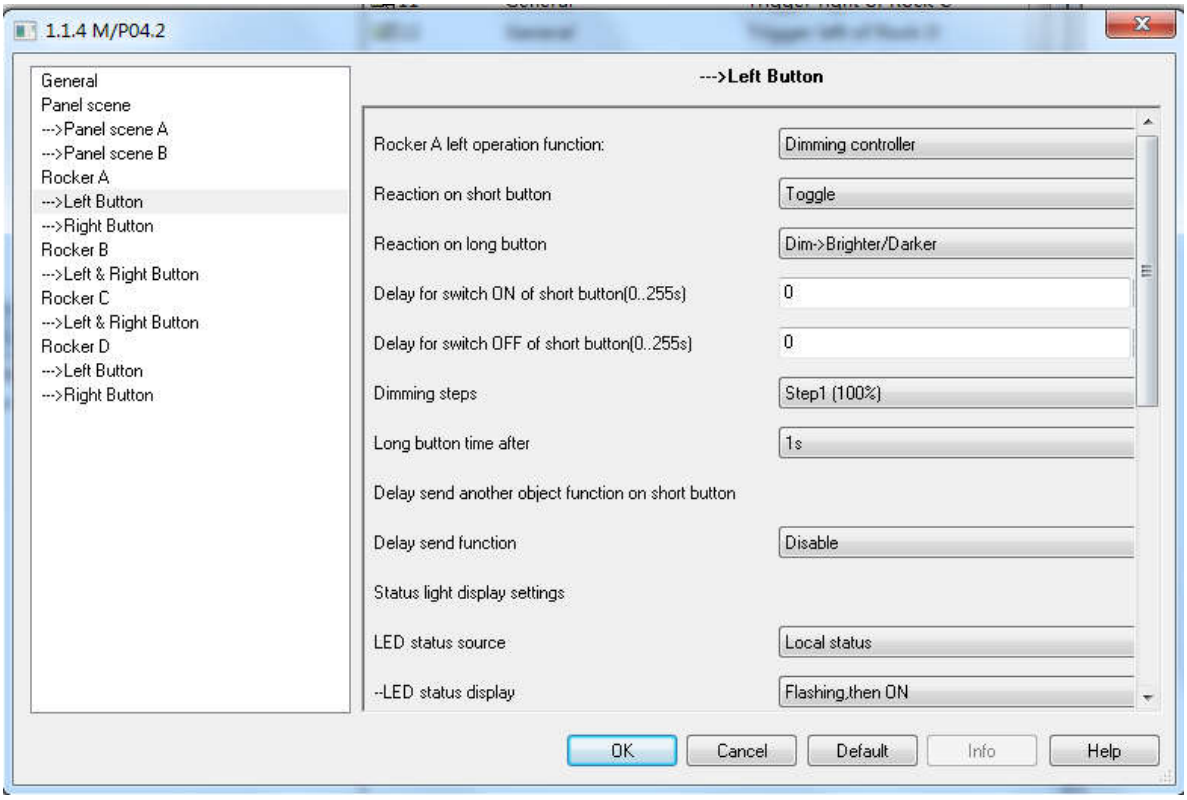
No.	ETS-Parameter	Range (default)	Description
50	Rocker A left operation function	-(Switch controller) -Dimming controller -Shutter controller -Flexible controller -Scene controller -Sequence controller -Percentage controller -Threshold controller -String(14 bytes) controller -Alternate controller -Pulse controller -Combination controller	*Set the button function*
3.1.1.1_ Left button			
3.1.1.1.1 _Switch controller			
51	Reaction on short button	- Invalid	***Toggle**: It will invert the last time's*

		- (toggle) - ON -OFF	*value then send it out.* ***ON**: If send the telegram '1', the switch is ON.* ***OFF**: If send the telegram '0', the switch is OFF*
52	Delay for short button	-(No) -Yes	*Enable/disable " delay for short button"*
53	--Delay for switch ON of short button (0…255s)	(0)…255s	*Set the delay time for switch ON of short button*
54	--Delay for switch OFF of short button	(0)…255s	*Set the delay time for switch OFF of short button*
55	Reaction on long button	- (Invalid) -Toggle -ON -OFF	***Toggle**: It will invert the last time's value then send it out.* ***ON**: If send the telegram '1', the switch is ON.* ***OFF**: If send the telegram '0', the switch is OFF*
56	Delay for long button	-(No) -Yes	*Enable/disable "delay for long button"*
57	--Delay for switch ON of long button (0…255s)	(0)…255s	*Set the delay time for switch ON of short button*
58	--Delay for switch OFF of long button	(0)…255s	*Set the delay time for switch OFF of short button*
59	Long button time after	0…(1)…60s	*Set the time for long press the button*
60	Delay send function	-Enable -(Disable)	*Enable/disable for delay sending*
61	--Delay send for short button	-(Enable) -Disable	*Enable/disable the delay sending for short button*
62	--Delay send for long button	-Enable -(Disable)	*Enable/disable the delay sending for long button*
63	--Delay send when button object value	-(ON) -OFF -ON/OFF	*Set the value for delay sending when press the button* *On: if press on, will send another object* *OFF: if press off, will send another object* *ON/OFF: if press on or off, will send another object*
64	--Delay send value	-(ON) -OFF -Toggle -The same as the button	*Set the value for delay sending (this setting is according to 'Delay send when button object value'* *On: when button object value' setting, if you set on, press on, will trigger on of 'delay send when button object value',* *Toggle: if set the toggle, will trigger on at first, and then is off.* *The same as the button: the setting is always 'delay send when button object value' setting*
65	--Send after a delay (0…255s)	0…(10)…255)	*Set the delay time for sending*
66	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local*

			Status from bus: the LED status is set from the bus *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF', when you press, this button's indicator will ON, others are OFF.*
67	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
68	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
69	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
70	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
71	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
72	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
73	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
74	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED*

		-'0'-ON, '>=1'-OFF, other leds OFF	*will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on* *'>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*

3.1.1.1.2 Dimming controller



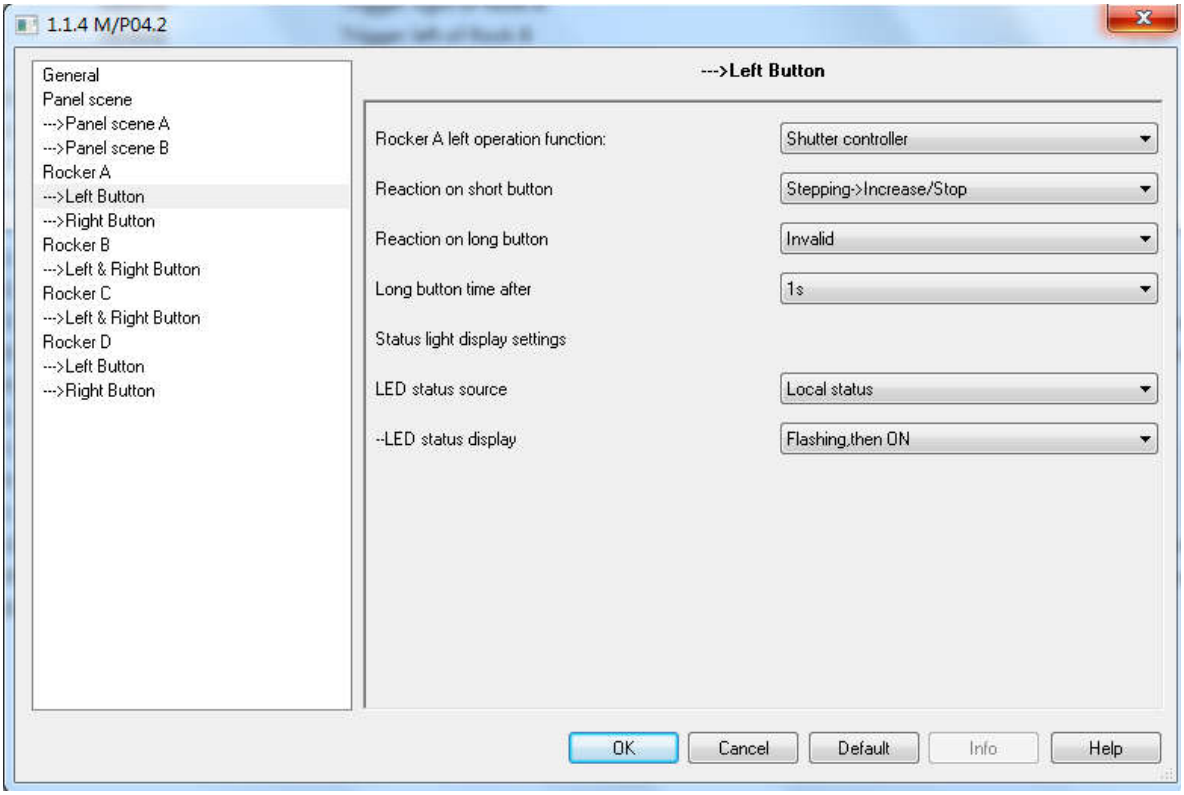
No.	ETS-Parameter	Range (default)	Description
75	Reaction on short button	- Invalid - (toggle) - ON -OFF	***Toggle**: It will invert the last time's value then send it out.* ***ON**: If send the telegram '1', the switch is ON.* ***OFF**: If send the telegram '0', the switch is OFF*
76	Reaction on long button	-Invalid -Dim->Brighter -Dim->Darker -(Dim->Brighter/Darker)	*Invalid: no action when long press the button* *Dim->Brighter: When long press the button, it will increase the brightness* *Dim->Darker: When long press the button, it will decrease the brightness*

			Dim->Brighter/Darker: When long press the button, it will increase/decrease the brightness
77	Delay for switch ON of short button (0…255s)	(0)…255s	*Set the delay time for switch ON when short press the button*
78	Delay for switch OFF of short button (0…255s)	(0)…255s	*Set the delay time for switch OFF when short press the button*
79	Dimming steps	- (Step1 (100%)) -Step2 (50%) -Step3 (25%) -Step4 (12.5%) -Step5 (6.25%) -Step6 (3.13%) -Step7 (1.56%)	*Set the step for dimming*
80	Long button time after	0…(1)…255s	*Set the delay time for switch when long press the button*
81	Delay send function	-Enable -(Disable)	*Enable/disable the function*
82	--Delay send when button object value:	-(ON) -OFF -ON/OFF	*Set the value for delay sending when press the button* *On: if press on, will send another object* *OFF: if press off, will send another object* *ON/OFF: if press on or off, will send another object*
83	--Delay send value	-(ON) -OFF -Toggle -The same as the button	*Set the value for delay sending* *On: according to the 'delay send when button object value' setting, if you set on, press on, will trigger on of 'delay send when button object value',* *Toggle: if set the toggle, will trigger on at first, and then is off.* *The same as the button: the setting is always 'delay send when button object value' setting*
84	--Send after a delay(0…255s)	0…(10)…255	*Set the delay time for sending*
85	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the*

			indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.
86	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
87	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
88	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
89	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
90	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
91	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
92	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
93	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction*

		OFF	*side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*

3.1.1.1.3_Shutter controller



94	->Reaction on short button	-Invalid -(Stepping-> Increase/stop) -Stepping-> Increase/stop -Stepping-> Toggle/Stop -Moving->Up -Moving->Down -Moving->Toggle	***Invalid:*** *no action when short press* ***Stepping->Increase/Stop:*** *when short press the button, it will increase/stop adjusting the angle of shutter* ***Stepping-> Decrease/Stop:*** *when short press the button,*

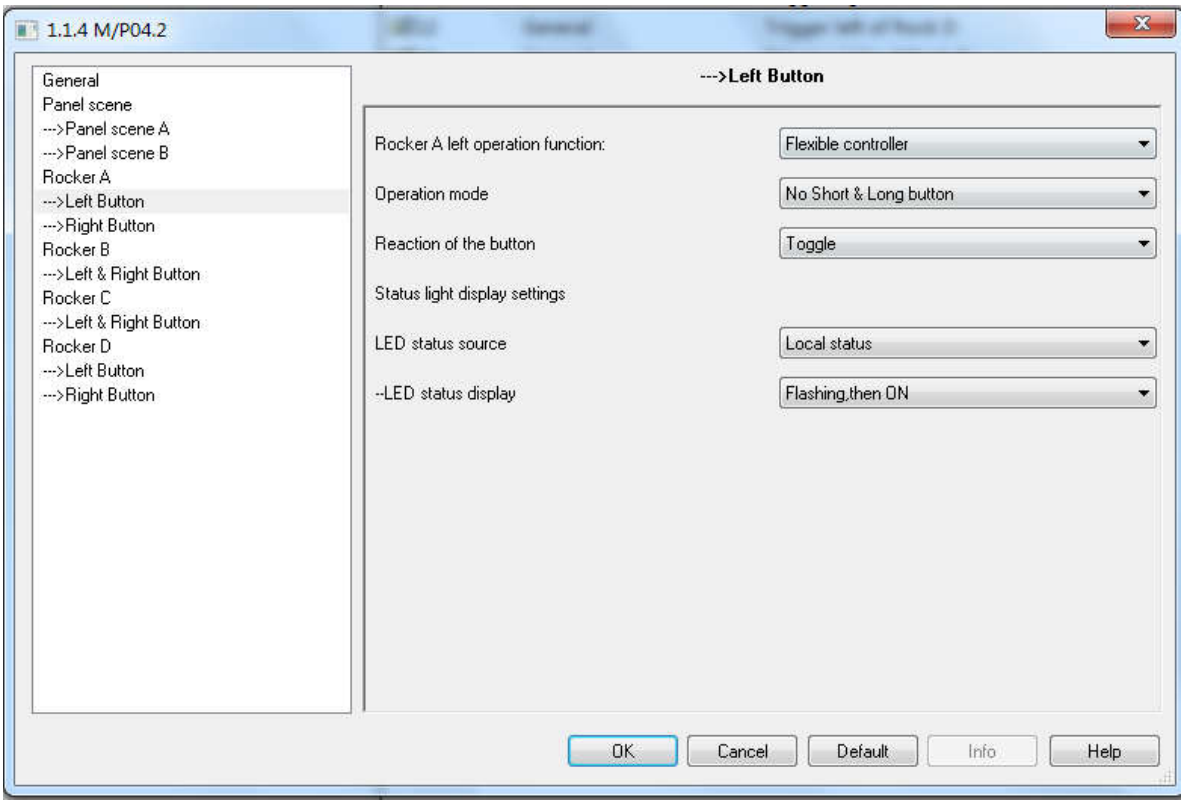
			it will decrease/ stop adjusting the angle of shutter ***Stepping-> Toggle/Stop:*** *when short press the button, it will toggle/ stop adjusting the angle of shutter* ***Moving-> UP:*** *when short press the button, it will it will send move up telegram, the position will be up.* ***Moving-> Down:*** *when short press the button, it will it will send move up telegram, the position will be up.* ***Moving-> Toggle****: when short press the button, it will send move up/down telegram, the position will be up/ down.*
95	->Stop moving automatically	-Enable -(Disable)	*Enable/disable for stop moving automatically*
96	----Automatically stop delay time(1…255s)	0…(5)…255s	*Set the delay time for automatically stop*
97	->Reaction on long button	-(Invalid) -Stepping-> Increase/stop -Stepping-> Increase/stop -Stepping-> Toggle/Stop -Moving->Up -Moving->Down -Moving->Toggle -Press move-> UP, Release: stop -Press move->Down, Release: stop -Press move ->Toggle, Release: stop	***Invalid:*** *no action when long press the button* ***Stepping->Increase/Stop:*** *when long press the button, it will increase/stop adjusting the angle of shutter* ***Stepping-> Decrease/Stop:*** *when long press the button, it will decrease/stop adjusting the angle of shutter* ***Stepping-> Toggle/Stop:*** *when long press the button, it will toggle/ stop adjusting the angle of shutter* ***Moving-> UP:*** *when long press the button, it will send move up telegram, the position will be up.* ***Moving-> Down****: when long press the button, it will it will send move up telegram, the*

			position will be down. ***Moving-> Toggle:*** *when long press the button, it will send move up/down telegram, the position will be up/ down.* ***Press: Moving->UP, Release stop:*** *when long press the button , it will send move up telegram, when release, it will send the telegram to stop* ***Press: Moving->DOWN, Release stop:*** *when long press the button, it will send move down telegram, when release, it will send the telegram to stop* ***Press: Moving->Toggle, Release stop:*** *when long press the button, it will send move down/up telegram, when release, it will send the telegram to stop*
98	->Stop moving automatically	-Enable -(Disable)	*Enable/disable for stop moving automatically*
99	----Automatically stop delay time(1…255s)	0…(5)…255s	*Set the delay time for automatically stop*
100	Long button time after	0.3…(1)…60s	*Set the time for long press*
101	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
102	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to*

			value, will decide ON/OFF
103	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status -'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
104	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status -'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
105	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
106	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
107	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
108	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
109	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on* *'>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if*

			receive the telegram value '1', all leds will be off

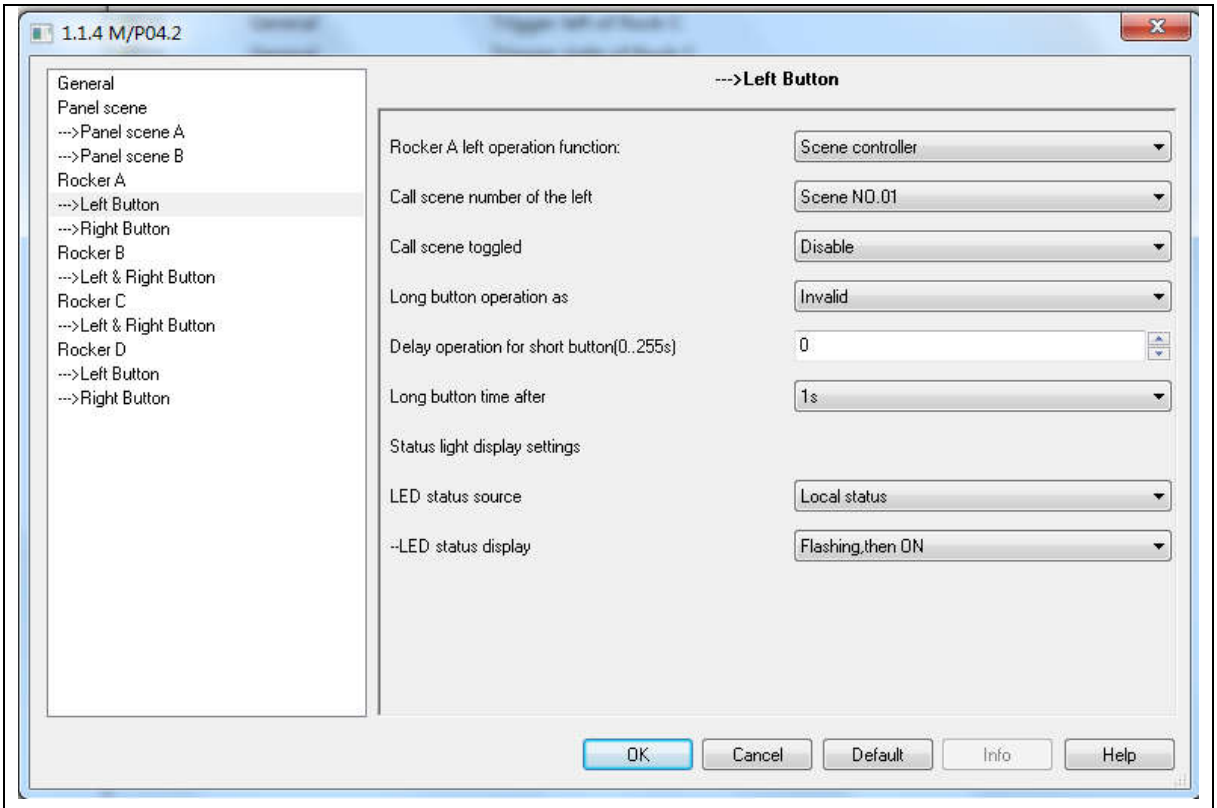
3.1.1.1.4_Flexible controller



110	Operation mode	-(No Short & Long button) -Short & Long button	*Set the operation mode for flexible controller* *No short & Long button: does not discriminate between short & long button* *Short & Long button: has short &long button mode*
111	Reaction on short button	-Invalid -(Toggle) -ON -OFF	*Set the parameter for short press reaction* *Toggle: when short press the button, will send the telegram value '1' at first, and then send '0'* *ON: when short press the button, will send the telegram value '1'* *OFF: when short press the button, will send the telegram value '0'*
112	Reaction on long button	-Invalid -(Toggle) -Press= "0N" -Release "ON" -Press= "ON", Release= "ON" -Press="OFF"	*Set the parameter for button operation*

		-Release= “OFF” -Press= “OFF. Release= “OFF” -Press= “ON”, Release= “OFF” -Press= “OFF. Release= “ON”	
113	Long button time after	0.2…(1)…60s	*Set the time for long press the button*
114	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set ‘Flashing ON, the other OFF’ , when you press, this button’s indicator will ON, others are OFF.*
115	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
116	--Status set	-(‘>=1’-ON, ‘0’-OFF) -‘>=1’-OFF, ‘0’-ON	*Set the parameter for status* *-‘>=1’-ON, ‘0’-OFF: if send value is ‘1’, the LED status is ON, if the value is ‘0’, the LED status is OFF* *‘>=1’-OFF, ‘0’-ON: if the value is ‘1’, the LED status is OFF, if the value is ‘0’, the LED status is ON*
117	--LED status display	-(‘1’-ON, ‘0’-OFF) -‘0’-ON, ‘1’-OFF	*Set display for LED status* *-‘1’-ON, ‘0’-OFF: if send the parameter value is ‘1’, the LED will be on, if send the parameter value is ‘0’, the LED will be off.*
118	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
119	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*

120	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
121	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
122	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*
3.1.1.1.5_Scene controller			

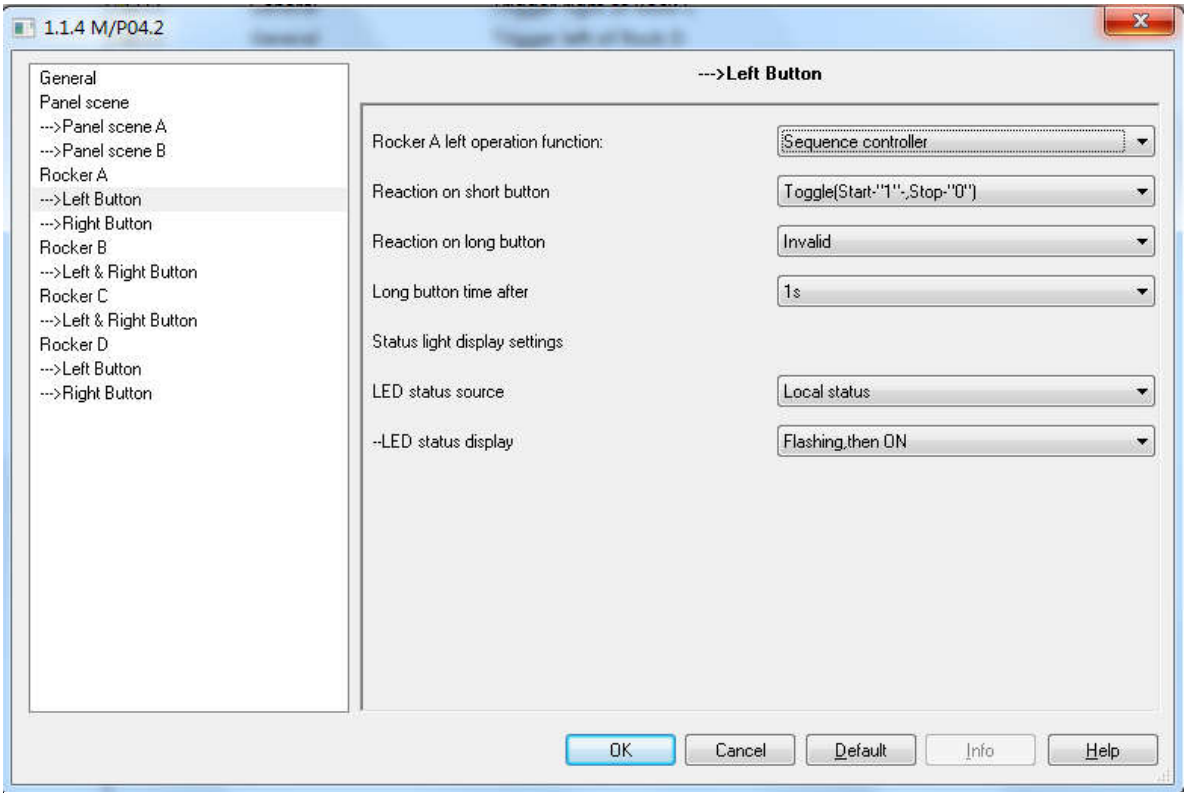


123	Call scene number of the left	(Scene NO.01)…Scene NO.64	*Set the scene for left button*
124	Call scene toggled	-Enable -(Disable)	*Enable/disable for calling scene toggled*
125	--Toggled scene number	(Scene NO.01)…Scene NO.64	*Set the scene for toggle*
126	Long button operation as	-(Invalid) -Scene dimming -Scene saving -Dimming and saving	*Set the operation for long press the button* *Scene dimming: when you long press the button, can dim the scene* *Scene saving: when you long press the button, can save the scene* *Dimming and saving: when you press the button, can dim and save the scene*
127	--Scene dimming	-(Brighter) -Darker -Brighter/Darker	*Set the parameter of scene dimming when long press the button*
128	Delay operation for short	(0)…255s	*Set the delay time for short*

	button		*press the button*
129	Long button time after	0.3…(1)…60s	*Set the time for long press the button*
130	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
131	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
132	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
133	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
134	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
135	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
136	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*

137	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on* *'>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*

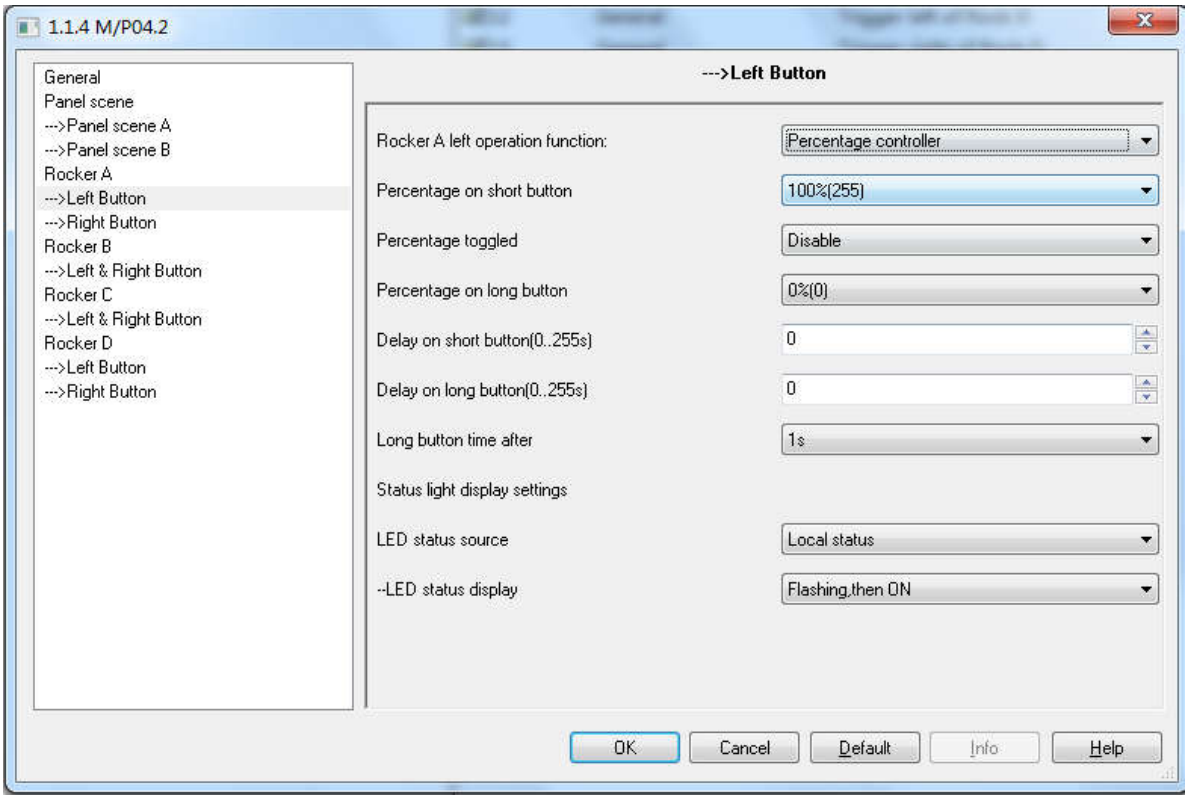
3.1.1.1.6_Sequence controller



138	Reaction on short button	-Invalid -(Toggle(start- "1", Stop- "0")) -Start-"1" -Stop-"0"	*Set the reaction when short press the button*
139	Reaction on long button	-(Invalid) -Toggle(start- "1", Stop- "0")	*Set the reaction when long press the button*

		-Start-“1” -Stop-“0”	
140	Long button time after	0.3…(1)…60s	*Set the time for long press the button*
141	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set ‘Flashing ON, the other OFF’ , when you press, this button’s indicator will ON, others are OFF.*
142	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
143	--Status set	-(‘>=1’-ON, ‘0’-OFF) -‘>=1’-OFF, ‘0’-ON	*Set the parameter for status* *-‘>=1’-ON, ‘0’-OFF: if send value is ‘1’, the LED status is ON, if the value is ‘0’, the LED status is OFF* *‘>=1’-OFF, ‘0’-ON: if the value is ‘1’, the LED status is OFF, if the value is ‘0’, the LED status is ON*
144	--LED status display	-(‘1’-ON, ‘0’-OFF) -‘0’-ON, ‘1’-OFF	*Set display for LED status* *-‘1’-ON, ‘0’-OFF: if send the parameter value is ‘1’, the LED will be on, if send the parameter value is ‘0’, the LED will be off.*
145	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
146	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
147	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C	*Add the parameter for rocker*

		-Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	
148	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
149	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*
3.1.1.1.7_Percentage controller			

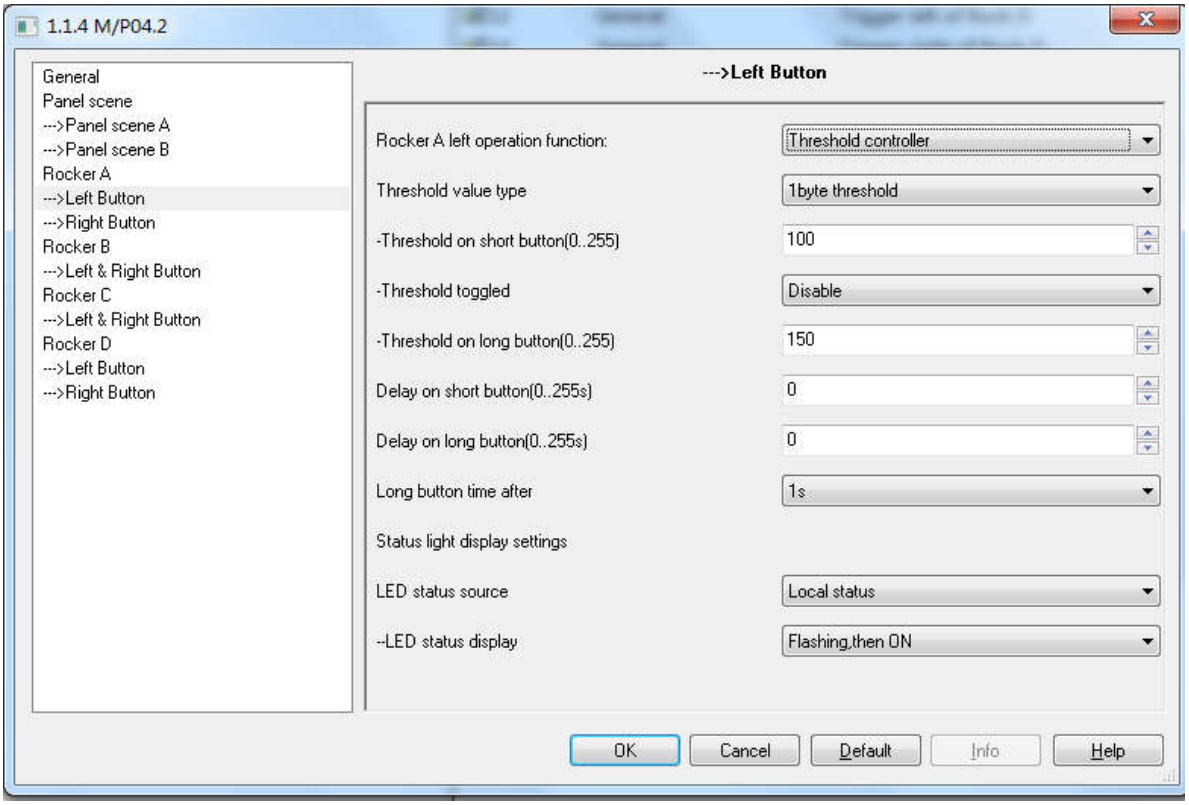


150	->Percentage on short button	0… (100%)	Set the percentage when short press the button
151	Percentage toggled	-Enable -(Disable)	*Enable/disable for percentage toggled*
152	--Toggled percentage value	(0)…100%	*Set the time for long press the button*
153	Percentage on long button	(0)…100%	*Set the percentage for long press the button*
154	Delay on short button (0…255s)	(0)…255s	*Set the delay time for short press the button*
155	Delay on long button (0…255s)	(0)…255s	*Set the delay time for long press the button*
156	Long button time after	0.3…(1)…60s	Set the time for long press the button
157	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF', when you press, this button's indicator will ON, others are OFF.*
158	--LED status display	-(Flashing, then ON)	*Set the status for LED*

		-Flashing, then OFF -Flashing, then status -ON/OFF Status	*-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
159	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
160	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
161	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
162	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
163	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
164	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
165	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds*

			OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off '0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off

3.1.1.1.8_Threshold controller

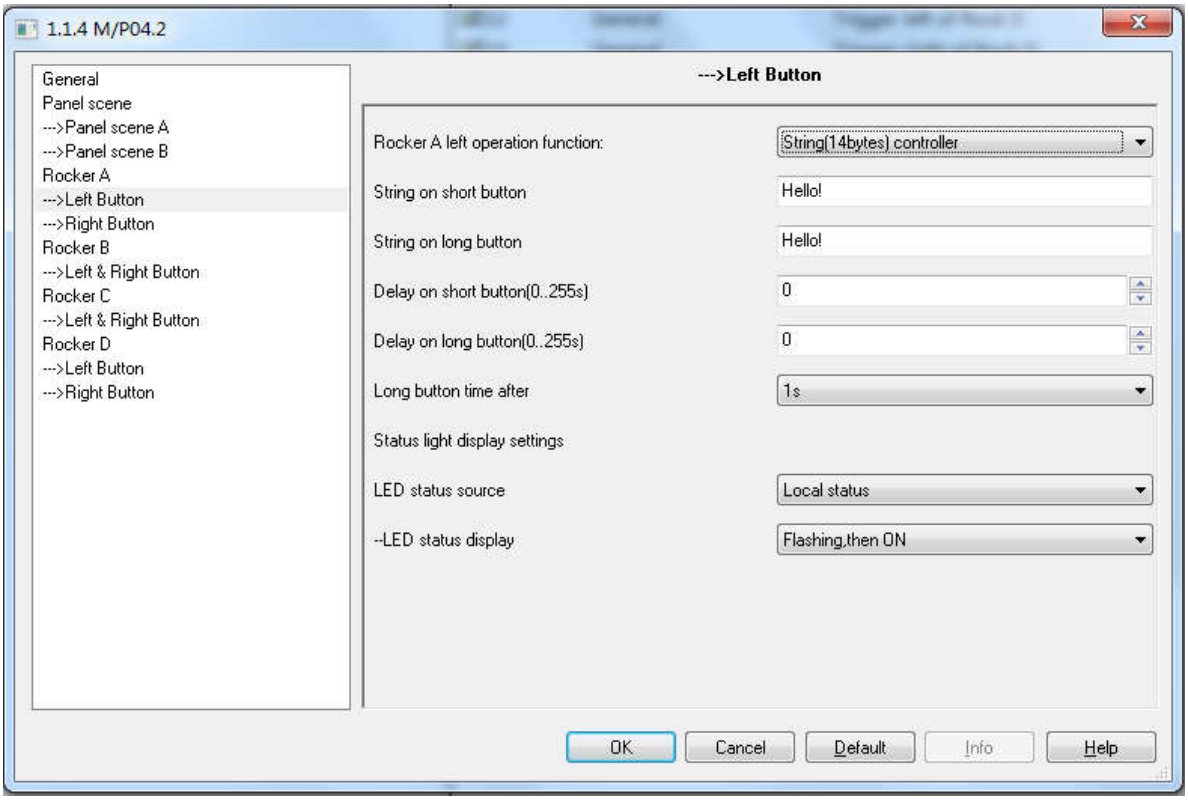


166	Threshold value type	-(1 byte threshold) -2 bytes threshold	*Set the type for threshold value*
167	-Threshold on short button (0…255)	0…(100)…255	*Set the parameter for threshold when short press the button*
168	--Threshold on short button (0…65535)	0…(1000)…65535	*Set the parameter for threshold when short press the button*
169	-Threshold toggled	-Enable -(Disable)	Enable/disable for threshold toggled
170	--Toggled threshold value	(0)…255	*Set the threshold value for toggled*
171	-Threshold on long button (0…255)	0…(150)…255	*Set the parameter for threshold when long press the button*
172	-Threshold on long button (0…65535)	0…(3000)…65535	*Set the parameter for threshold when long press the button*
173	Delay on short button	(0)…255s	*Set the delay time for short*

	(0…255s)		*press the button*
174	Delay on long button	(0)…255s	*Set the delay time for long press the button*
175	Long button time after	0.3…(1)…60s	Set the time for long press the button
176	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
177	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
178	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
179	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
180	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
181	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
182	--LED mutual exclusion	-Left	*Set the reaction side for LED*

	reaction side	-Right -(Left & right)	*mutual exclusion*
183	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*

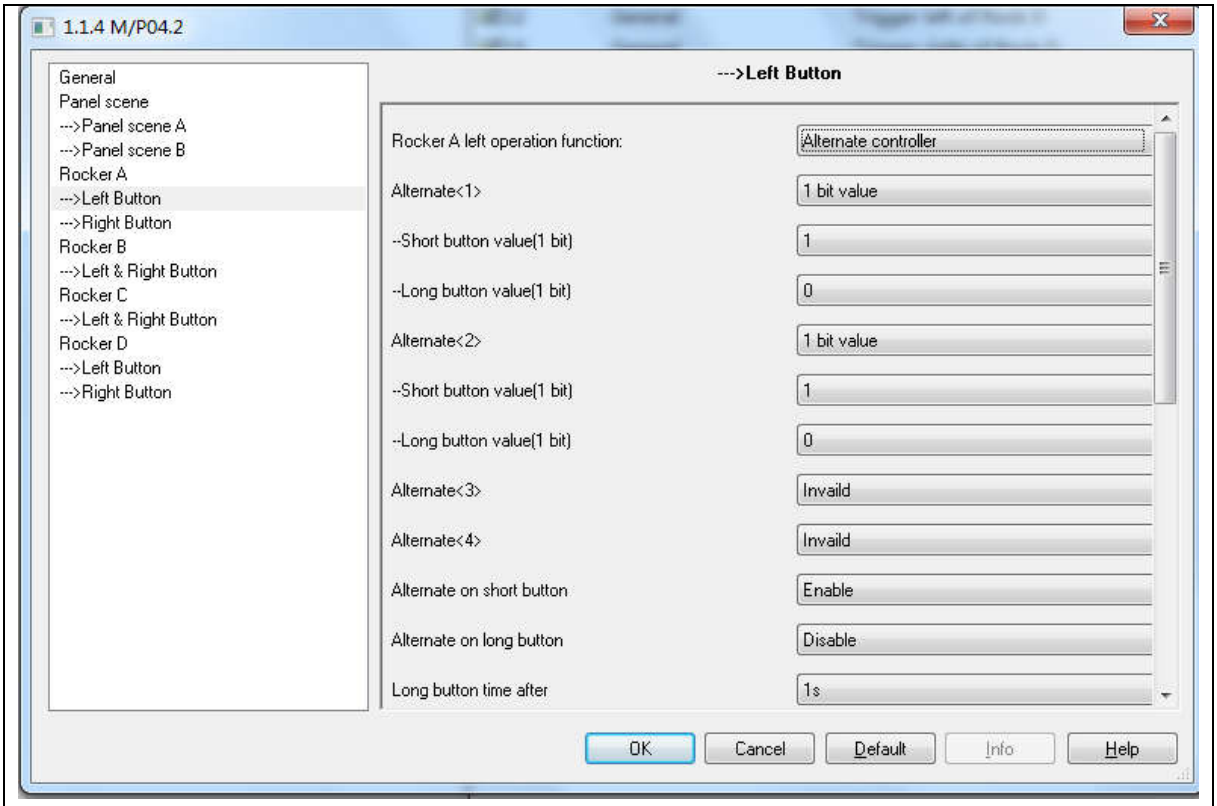
3.1.1.1.9_String(14bytes) controller)



184	->String on short button	(Hello!)	Set the string when short press the button
185	->String on long button	(Hello!)	Set the string when long press the button

186	--Delay on short button (0…255s)	(0)…255s	Set the delay time for short press the button
187	--Delay on long button (0…255s)	(0)…255s	Set the delat time for long press the button
188	Long button time after	0.3…(1)…60s	Set the time for long press the button
189	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
190	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
191	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
192	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
193	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
194	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*

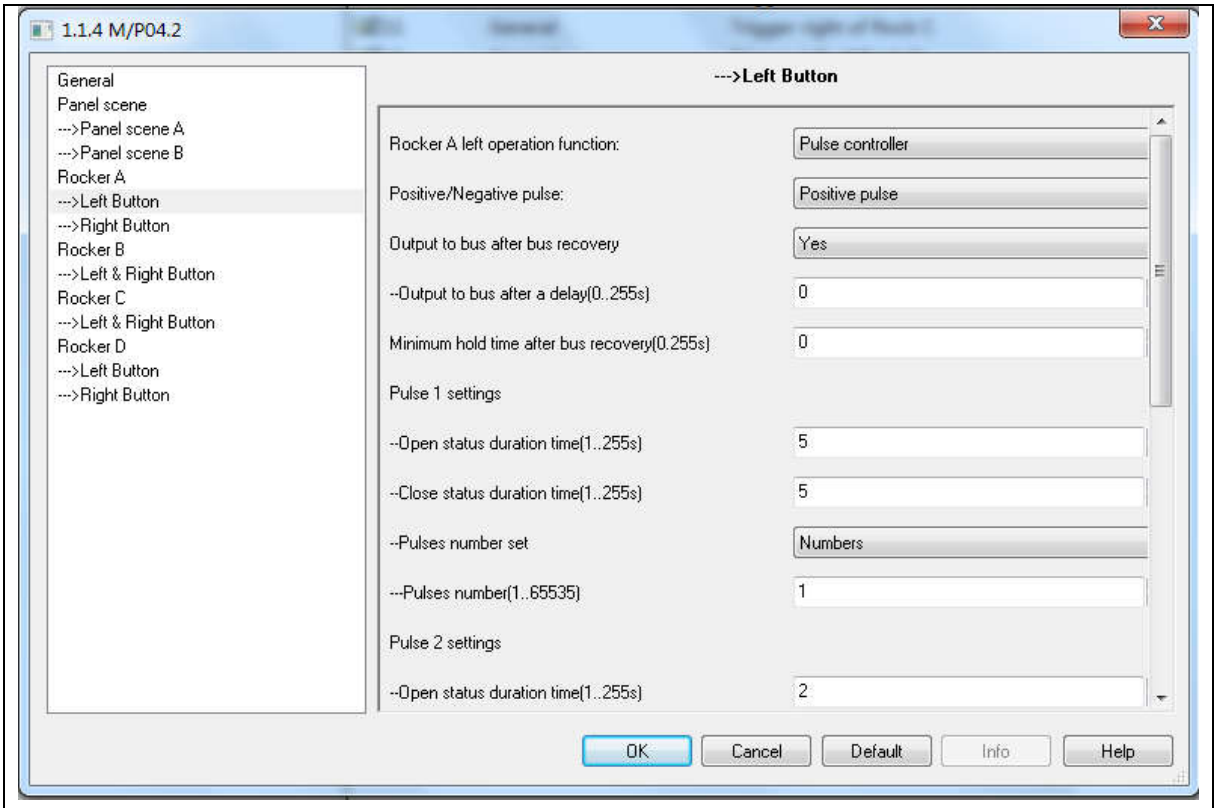
195	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
196	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
197	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*
3.1.1.1.10_Alternate controller			



198	Alternate<1>…<2>	-Invalid -(1 bit value) -1 byte value - 2 byte value	*Set the parameter for alternate 1…2*
199	--Short button value(1 bit)	-Toggle -0 -(1)	*Set the value for short press the button* *Toggle: when short press the button, send the telegram '0' at first, next time , will send '1'…* *0-will send the telegram value '0' when short press the button* *1-will send the telegram '1' when short press the button*
200	--Long button value(1 bit)	-Toggle -(0) -1	*Set the value for long press the button* *Toggle: when long press the button, send the telegram '0' at first, next time , will send '1'…* *0-will send the telegram value '0' when long press the button* *1-will send the telegram '1' when long press the button*
201	--Short button value(0…255)	(0)…255	*Set the value for short press the button*
202	--Long button value(0…255)	(0)…255	*Set the value for long press the button*
203	--Short button value	(0)…65535	*Set the value for short press*

	(0…65535)		*the button*
204	--Long button value (0…65535)	(0)…65535	*Set the value for long press the button*
205	Alternate <3>…<4>	-(Invalid) -1 bit value -1 byte value - 2 byte value	*Set the parameter for alternate 3…4*
206	Alternate on short button	-(Enable) -Disable	*Enable/disable for alternate when short press the button*
207	Alternate on long button	-Enable -(Disable)	*Enable/disable for alternate when long press the button*
208	Long button time after	0.3…(1)…60s	Set the time for long press the button
209	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
210	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
211	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
212	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
213	--Button status reaction(1 bit)	-(Invalid)	*Set the reaction(1 bit) for*

		-Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*button status*
214	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
215	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
216	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
217	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on* *'>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*
3.1.1.1.11_Pulse controller			

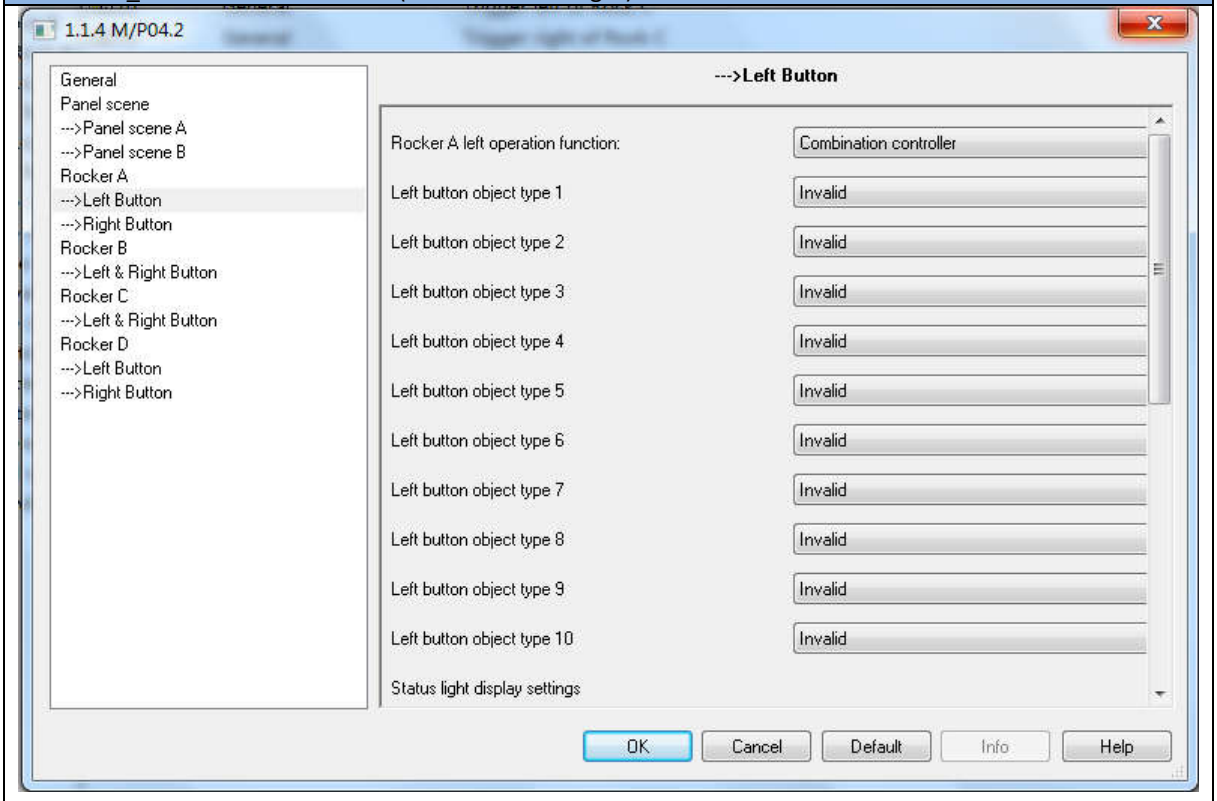


218	Positive/Negative pulse	-(Positive pulse) -Negative pulse	*Set the parameter for pulse controller*
219	--Output to bus after bus recovery	-Yes -(No)	*Enable/disable for output to bus when power on*
220	--Output to bus after a delay (0…255s)	(0)…255	*Set the delay time for output to bus*
221	Minimum hold time after bus recovery (0…255s)	(0)…255	*Set the minimum hold time when power on*
Pulse 1 settings:			
222	--Open status duration time (1…255s)	1…(5)…255	*Set the duration time for opening status*
223	--Close status duration time (1…255s)	1…(5)…255	*Set the duration time for closing status*
224	--Pulses number set	-(Number) -Send continuously	*Set the parameter for pulses number* *Number: If you set one time, will send pulse for one time* *Send continuously: will always send pulse*
225	--Pulses number (1…65535)	(1)…65535	*Set the number for sending pulse*
Pulse 2 setting:			
226	--Open status duration time (1…255s)	1...(2)…255s	*Set the duration time for opening status*
227	--Close status duration time (1…255s)	1...(2)…255s	*Set the duration time for closing status*
228	--Pulses number set	-(Number) -Send continuously	*Set the parameter for pulses number* *Number: If you set one time, will send pulse for one time* *Send continuously: will*

			always send pulse
229	--Pulses number (1…65535)	(1)…65535	*Set the number for sending pulse*
230	Reaction on short button	-Invalid -(Pulse 1) -Pulse 2 -Toggle -Stop	*Set the parameter for reaction when short press the button* *Pulse1: when short press the button, will send pulse 1* *Pulse 2: when short press the button, will send pulse 2* *Toggle: when short press the button, will send pulse1 and next time ,will send pulse 2* *Stop: when short press the button, will stop sending the pulses*
231	Reaction on long button	-Invalid -Pulse 1 -(Pulse 2) -Toggle -Stop	*Set the parameter for reaction when long press the button* *Pulse 1: when long press the button, will send pulse 1* *Pulse 2: when long press the button, will send pulse 2* *Toggle: when long press the button, will send pulse 1and next time, will send pulse 2* *Stop: when long press the button, will stop sending the pulses*
232	Long button time after	0.3…(1)…60s	*Set the time for long press the button*
233	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
234	--LED status change	-(Only button pressed) -When impulse level change	*Set the parameter for LED status* *Only button pressed: press the button, the LED status will be changed* *When impulse level change: when the impulse level is changed, the LED status will be changed*
235	--LED status display	-(Flashing, then ON)	*Set the status for LED*

		-Flashing, then OFF -Flashing, then status -ON/OFF Status	*-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
236	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
237	--Delay read LED status after power on(1…255s, 0-no read)	1…(5)…255	*Set the delay time for reading LED status when power on*
238	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
239	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
240	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on* *'>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*

3.1.1.1.12_Combination controller (Left is same as Right)



241	Left button object type 1…10	-(Invalid) -Switch controller -Shutter controller -Scene controller -Sequence controller -Percentage controller -Threshold controller -String (14bytes) controller	*Set the type for left button object*
242	-Switch value	-Toggle -(ON) -OFF	*Set the parameter for switch*
243	-Shutter value	-Toggle -(UP) -DOWN	*Set the parameter for shutter*
244	-Scene value	-(Scene NO.01…scene NO.64)	*Set the parameter for scene*
245	-Scene toggled	-Yes -(No)	*Enable/disable the scene toggled*
246	-Toggled scene No. is	Scene N0.1 …(No.2)…SceneNO.64	*Set the scene for toggled*
247	-Sequence value	-Toggle -(Start) -Stop	*Set the parameter for sequence*
248	-Percentage value	0… (100%)	*Set the value for percentage*
249	-Percentage toggled	-Yes -(No)	*Enable/disable percentage toggled*
250	-Toggled percentage is	(0)…100%	*Set the value for toggled percentage*
251	-Threshold value type	-(1 byte threshold) -2 bytes threshold	*Set the type for threshold value*
252	-Threshold (0…255) value	0…(255)	*Set the value for the*
253	-Threshold (0…65535) value	0…(1000)…65535	

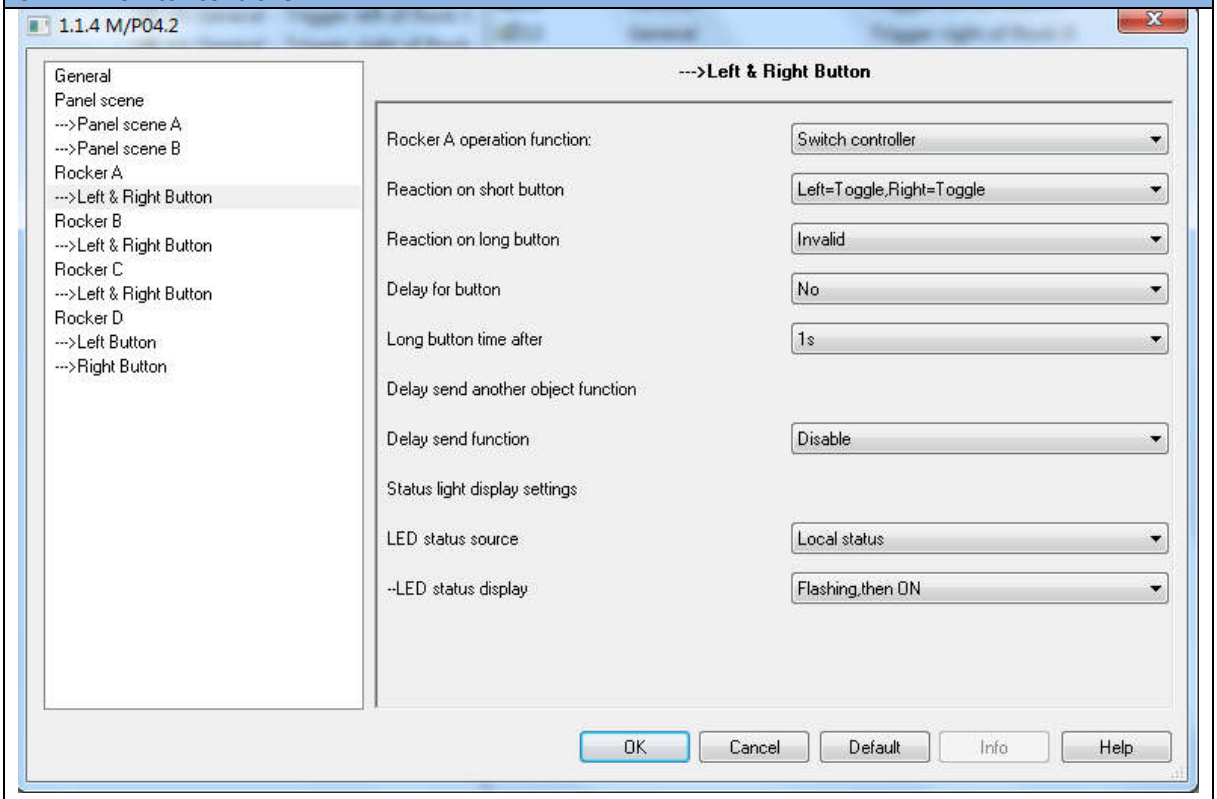
			threshold
254	-Threshold toggled	-Yes -(No)	*Enable/disable the threshold toggled*
255	-Toggled threshold (0…255) is	(0)…255	*Set the parameter for toggled threshold*
256	-Toggled threshold (0…65535) is	(0)…65535	
257	-String (14 bytes) value	(Hello!)	*Set the parameter for String(14 bytes)*
258	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
259	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
260	--Left button status set	-(ON) -OFF	*Set the status for pressing the left button*
261	--Right button status set	-(ON) -OFF	*Set the status for pressing the right button*
262	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
263	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
264	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
265	--LED mutual exclusion reaction side	-Left -Right	*Set the reaction side for LED mutual exclusion*

		-(Left & right)	
266	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*

3.1.2 _Combined button mode

3.1.2.1 Left & Right Button(Rocker A's setting is same as rocker B-D, here takes A as an example)

3.1.2.1.1 Switch controller

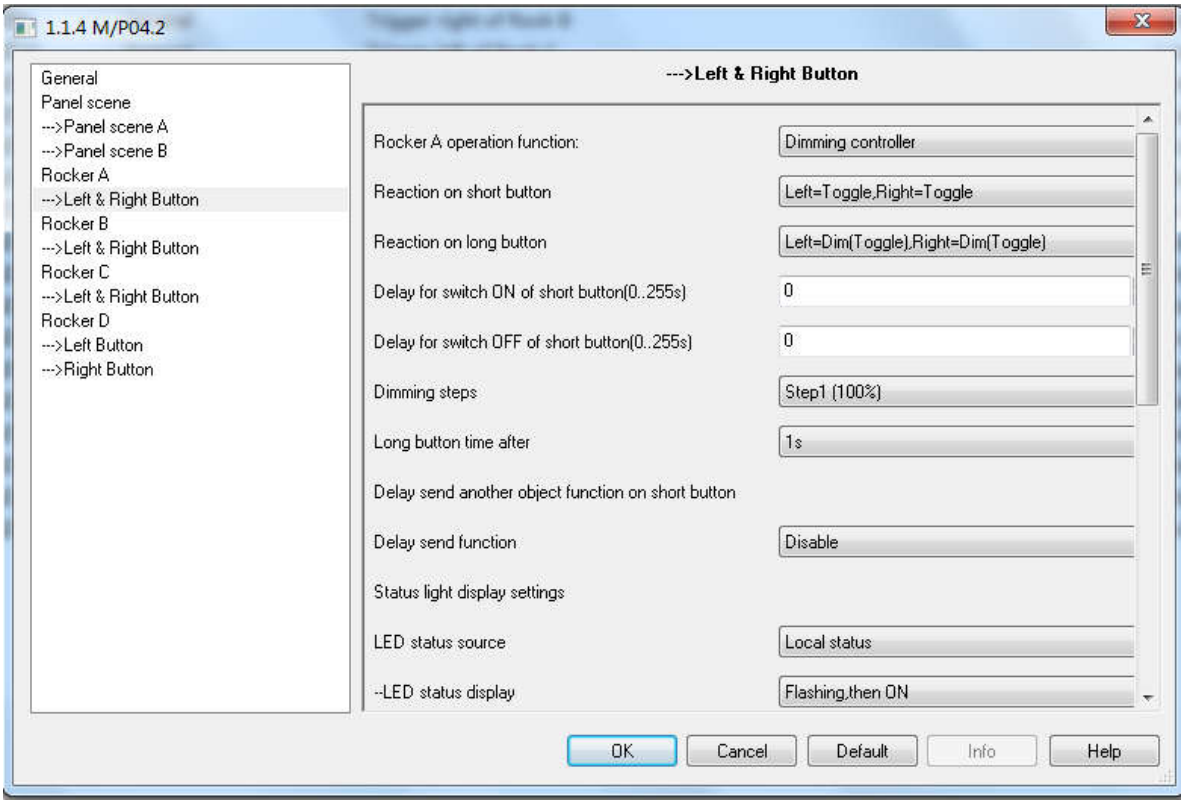


No.	ETS-Parameter	Range (default)	Description
267	Reaction on short button	-Invalid	*Set the reaction for short*

		-(Left=Toggle, Right=Toggle) -Left=ON, Right=OFF -Left=OFF, Right=ON -Left=ON, Right=ON -Left=OFF, Right=OFF	*press the button*
268	Reaction on long button	-(Invalid) -Left=Toggle, Right=Toggle -Left=ON, Right=OFF -Left=OFF, Right=ON -Left=ON, Right=ON -Left=OFF, Right=OFF	*Set the reaction for long press the button*
269	Delay for button	-Yes -(No)	*Enable/disable for delay button*
270	--Delay for switch ON of short button (0…255s)	(0)…255	*Set the delay time for switch on when short press the button*
271	--Delay for switch OFF of short button (0…255s)	(0)…255	*Set the delay time for switch off when short press the button*
272	--Delay for switch ON of long button (0…255s)	(0)…255s	*Set the delay time for switch on when long press the button*
273	--Delay for switch OFF of long button (0…255s)	(0)…255s	*Set the delay time for switch off when long press the button*
274	Long button time after	0… (100%)	*Set the value for percentage*
275	Delay send function	-Enable -(Disable)	*Enable/disable for delay sending*
276	--Delay send for short button	-(Enable) -Disable	*Enable/disable the delay sending for short button*
277	--Delay send for long button	-Enable -(Disable)	*Enable/disable the delay sending for long button*
278	--Delay send when button object value	-(ON) -OFF -ON/OFF	*Set the value for delay sending when press the button* *On: if press on, will send another object* *OFF: if press off, will send another object* *ON/OFF: if press on or off, will send another object*
279	--Delay send value	-(ON) -OFF -Toggle -The same as the button	*Set the value for delay sending (this setting is according to 'Delay send when button object value'* *On: when button object value' setting, if you set on, press on, will trigger on of 'delay send when button object value',* *Toggle: if set the toggle, will trigger on at first, and then is off.* *The same as the button: the setting is always 'delay send when button object value'*

			setting
280	--Send after a delay (0…255s)	0…(10)…255)	*Set the delay time for sending*
281	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
282	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
283	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
284	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
285	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
286	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
287	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C	*Add the parameter for rocker*

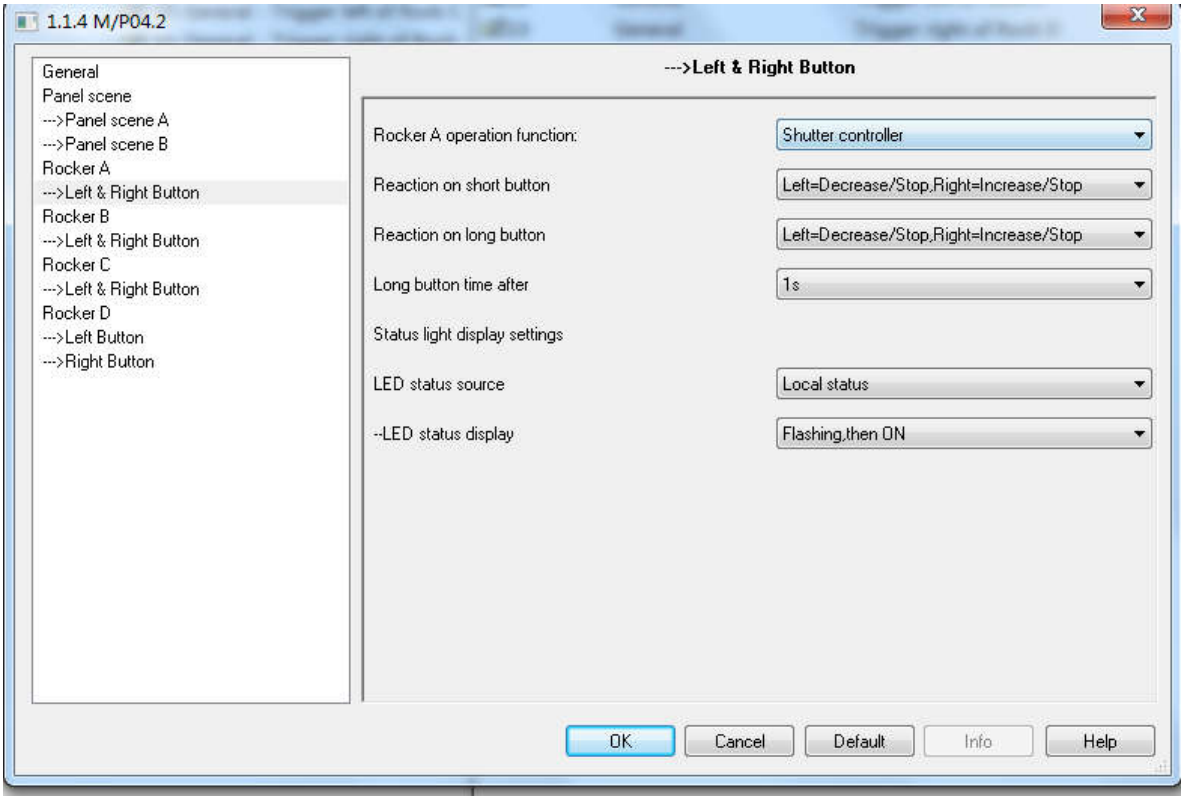
		-Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	
288	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
289	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*
3.1.2.1.2 Dimming controller			



290	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 reaction for short press the button*
291	Reaction on long button	-(Left=Dim(Toggle), Right=Dim(Toggle)) -Left=Darker, Right=Brighter -Left=Brighter, Right=Darker -Left=Brighter, Right=brighter -Left=Darker, Left=Darker	*Set the reaction for long press the button*
292	Delay for switch ON of short button (0…255s)	(0)…255s	*Set the delay time for switch ON when short press the button*
293	Delay for switch OFF of short button (0…255s)	(0)…255s	*Set the delay time for switch OFF when short press the button*
294	Dimming steps	- (Step1 (100%)) -Step2 (50%) -Step3 (25%) -Step4 (12.5%) -Step5 (6.25%) -Step6 (3.13%) -Step7 (1.56%)	*Set the step for dimming*
295	Long button time after	0…(1)…255s	*Set the delay time for switch when long press the button*
296	Delay send function	-Enable -(Disable)	*Enable/disable the function*
297	--Delay send when button	-(ON)	*Set the value for delay*

	object value:	-OFF -ON/OFF	*sending when press the button* *On: if press on, will send another object* *OFF: if press off, will send another object* *ON/OFF: if press on or off, will send another object*
298	--Delay send value	-(ON) -OFF -Toggle -The same as the button	*Set the value for delay sending* *On: according to the 'delay send when button object value' setting, if you set on, press on, will trigger on of 'delay send when button object value',* *Toggle: if set the toggle, will trigger on at first, and then is off.* *The same as the button: the setting is always 'delay send when button object value' setting*
299	--Send after a delay(0…255s)	0…(10)…255	*Set the delay time for sending*
300	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
301	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
302	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF*

			'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON
303	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status -'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
304	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
305	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
306	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
307	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
308	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on* *'>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*
3.1.2.1.3 Shutter controller			



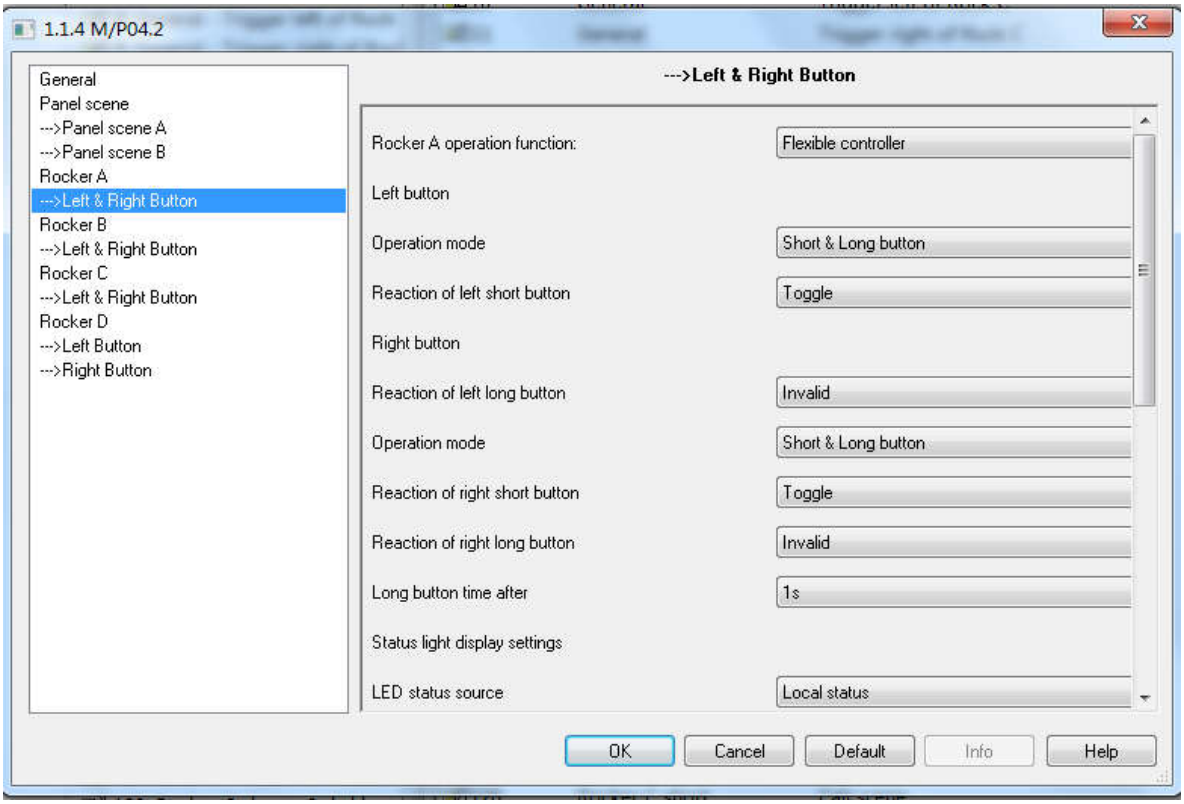
309	Reaction on short button	-Invalid -(Left=Decrease/Stop, Right=Increase/Stop) -Left=Increase/Stop, Right=Decrease/Stop) -Left=Toggle/Stop, Right=Toggle/Stop -Left=UP. Right=DOWN -Left=DOWN, Right=UP -Left=UP/DOWN, Right=UP/DOWN	*Set the reaction for short button* *Left=Decrease/Stop, Right=Increase/Stop: when short press the left button, the shutter will decrease, and short press again, will stop; when short press the right button, the shutter will increase, and short press again, will stop* *Left=Increase/Stop, Right=Decrease/Stop: When short press the left button, the shutter will increase, and press again, will stop; when short press the button, will decrease, and press again, will stop* Left=Toggle/Stop, Right=Toggle/Stop: When short press the left/right button, the shutter will increase, and next time, the shutter will decrease, if you press the button, will stop. Left=UP. Right=DOWN: When short press the left/right button, the shutter will be up/down Left=DOWN, Right=UP:

			when short press the left/right button, the shutter will be down/up Left=UP/DOWN, Right=UP/DOWN: When short press the left button, the shutter will be up, and press again, will be down; when short press the right button, the shutter will be up, and press again, will be down.
310	->Stop moving automatically	-Enable -(Disable)	*Enable/disable for stop moving automatically*
311	-----Automatically stop delay time(1…255s)	1…(5)…255	*Set the delay time for stop automatically*
312	Reaction on long button	-Invalid -(Left=Decrease/Stop, Right=Increase/Stop) -Left=Increase/Stop, Right=Decrease/Stop -Left=Toggle/Stop, Right=Toggle/Stop -Left=UP, Right=DOWN -Left=DOWN, Right=UP -Left=UP/DOWN, Right=UP/DOWN -Left=Press: UP, Right=Press: DOWN; Release: Stop -Left=Press: DOWN, Right= UP; Release: Stop -Left=Press: Toggle, R=Press: Toggle; Release: Stop	*Set the reaction for long press the button*
313	->Stop moving automatically	-Enable -(Disable)	*Enable/disable for stop moving automatically*
314	-----Automatically stop delay time(1…255s)	1…(5)…255	*Set the delay time for stop automatically*
315	Long button time after	0.2…(1)…60s	*Set the time for long press the button*
316	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
317	--LED status display	-(Flashing, then ON) -Flashing, then OFF	*Set the status for LED* *-Flashing, then ON: the LED*

		-Flashing, then status -ON/OFF Status	*will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
318	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
319	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
320	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
321	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
322	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
323	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
324	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on* *'>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram*

			value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off '0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off

3.1.2.1.4 Flexible controller



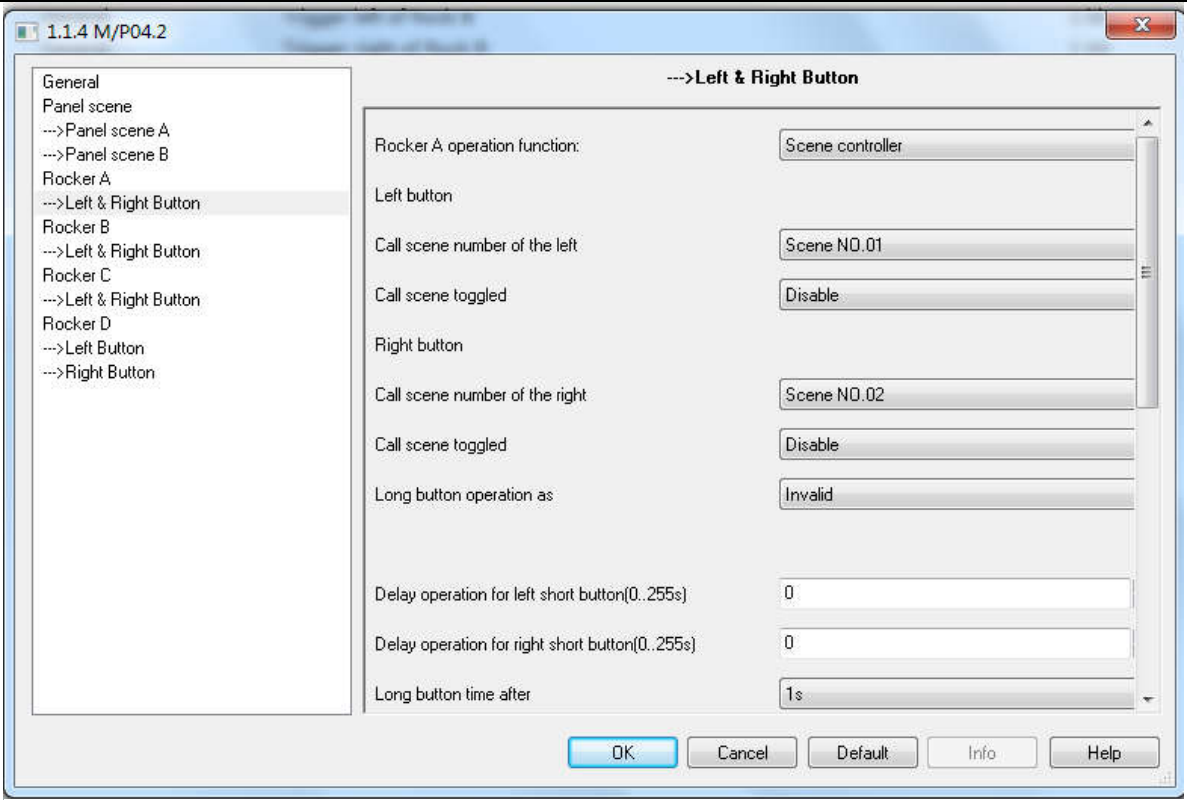
325	Operation mode	-No Short & Long button -(Short & Long button)	*Set the operation mode for flexible controller* *No short & Long button: does not discriminate between short & long button* *Short & Long button: has short &long button mode*
326	Reaction of left short button	-Invalid -(Toggle) -ON -OFF	*Set the parameter for short press reaction* *Toggle: when short press the left button, will send the telegram value '1' at first, and then send '0'* *ON: when short press the left button, will send the telegram value '1'* *OFF: when short press the*

			left button, will send the telegram value '0'
327	Reaction of left long button	-(Invalid) -Toggle -Press= "0N" -Release "ON" -Press= "ON", Release= "ON" -Press="OFF" -Release= "OFF" -Press= "OFF. Release= "OFF" -Press= "ON", Release= "OFF" -Press= "OFF. Release= "ON"	*Set the parameter for button operation*
328	Operation mode	-No Short & Long button -(Short & Long button)	*Set the operation mode for flexible controller* *No short & Long button: does not discriminate between short & long button* *Short & Long button: has short &long button mode*
329	Reaction of right short button	-Invalid -(Toggle) -ON -OFF	*Set the parameter for short press reaction* *Toggle: when short press the left button, will send the telegram value '1' at first, and then send '0'* *ON: when short press the left button, will send the telegram value '1'* *OFF: when short press the left button, will send the telegram value '0'*
330	Reaction of right long button	-Invalid -(Toggle) -ON -OFF	*Set the parameter for short press reaction* *Toggle: when short press the left button, will send the telegram value '1' at first, and then send '0'* *ON: when short press the left button, will send the telegram value '1'* *OFF: when short press the left button, will send the telegram value '0'*
331	Long button time after	0.3…(1)…60s	*Set the time for long press the button*
332	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the*

			indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.
333	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
334	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
335	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
336	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
337	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
338	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
339	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
340	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction*

		OFF	*side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*
341	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*

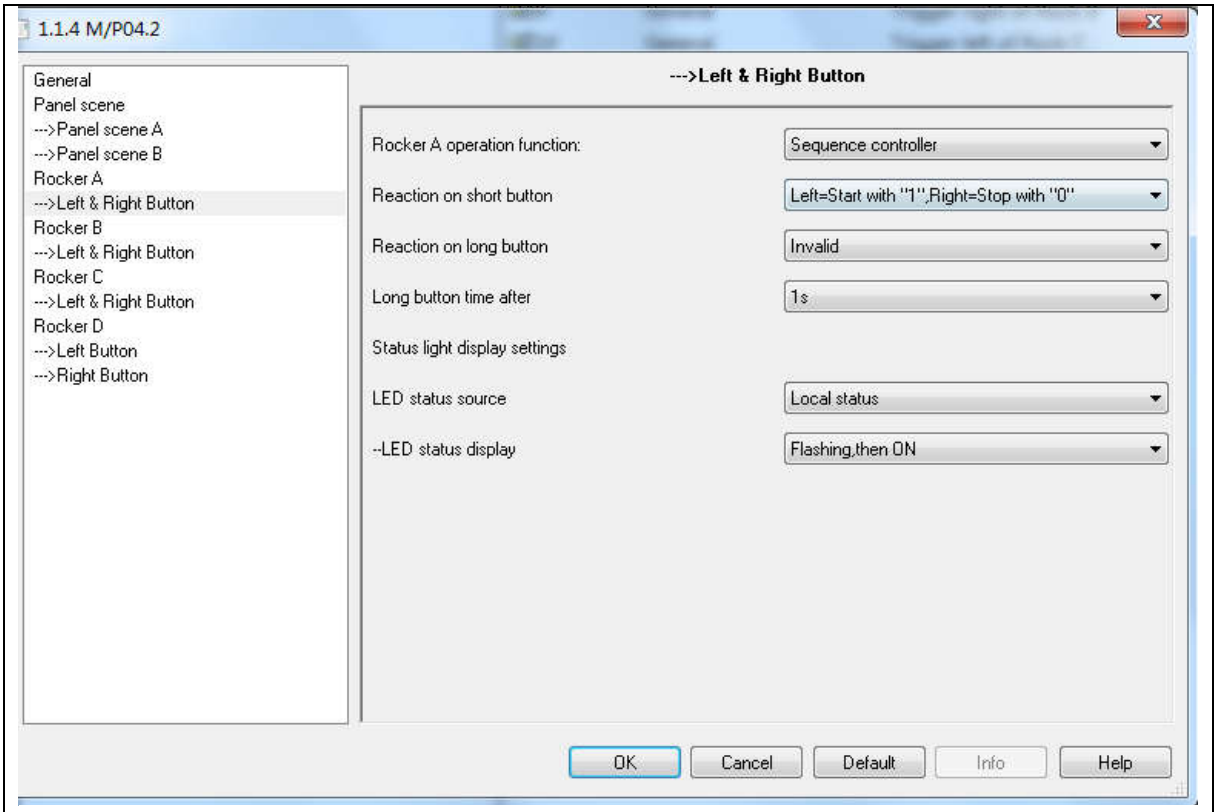
3.1.2.1.5_ Scene controller



342	Call scene number of the left	(Scene NO.01)…Scene NO.64	*Set the scene for left button*

343	Call scene toggled	-Enable -(Disable)	*Enable/disable for calling scene toggled*
344	--Toggled scene number	(Scene NO.01)…Scene NO.64	*Set the scene for toggle*
345	Call scene number of the right	Scene NO01… (NO02)…NO64	*Set the scene for left button*
346	Call scene toggled	-Enable -(Disable)	*Enable/disable for calling scene toggled*
347	--Toggled scene number	(Scene NO.01)…Scene NO.64	*Set the scene for toggle*
348	Long button operation as	-(Invalid) -Scene dimming -Scene saving -Dimming and saving	*Set the operation for long press the button* *Scene dimming: when you long press the button, can dim the scene* *Scene saving: when you long press the button, can save the scene* *Dimming and saving: when you press the button, can dim and save the scene*
349	--Scene dimming	-(Left=Brighter, Right=Darker) -Left=Darker, Right=Brighter	*Set the parameter for scene dimming*
350	Long button time after	0.3…(1)…60s	*Set the time for long press the button*
351	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
352	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
353	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send*

			value is '1', the LED status is ON, if the value is '0', the LED status is OFF *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
354	--Delay read LED status after power on(1…255s, 0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
355	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
356	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
357	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on* *'>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*
3.1.2.1.6_Sequence controller			

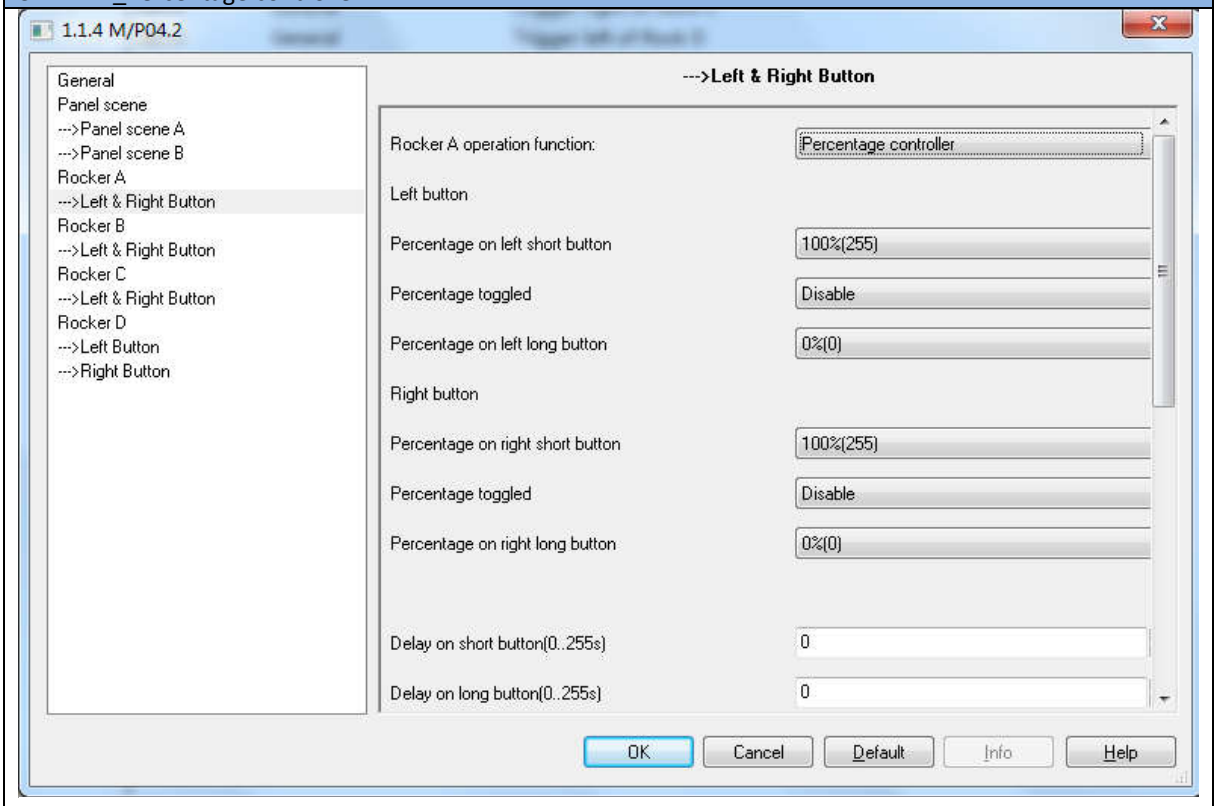


356	Reaction on short button	-Invalid -Left=Toggle, Right=Toggle -(Left=Start with '1', Right=Stop with '0') -Left=Start with '0', Right=Stop with '1' -Left=Start with '1', Right=Stop with '0' -Left=Start with '0', Right=Stop with '0'	*Set the reaction when short press the button*
357	Reaction on long button	-(Invalid) -Left=Toggle, Right=Toggle -Left=Start with '1', Right=Stop with '0' -Left=Start with '0', Right=Stop with '1' -Left=Start with '1', Right=Stop with '0' -Left=Start with '0', Right=Stop with '0'	*Set the reaction when long press the button*
358	Long button time after	0.3…(1)…60s	*Set the time for long press the button*
359	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the*

			indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.
360	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
361	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
362	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
363	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
364	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
365	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
366	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
367	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction*

		OFF	*side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*

3.1.2.1.7_Percentage controller

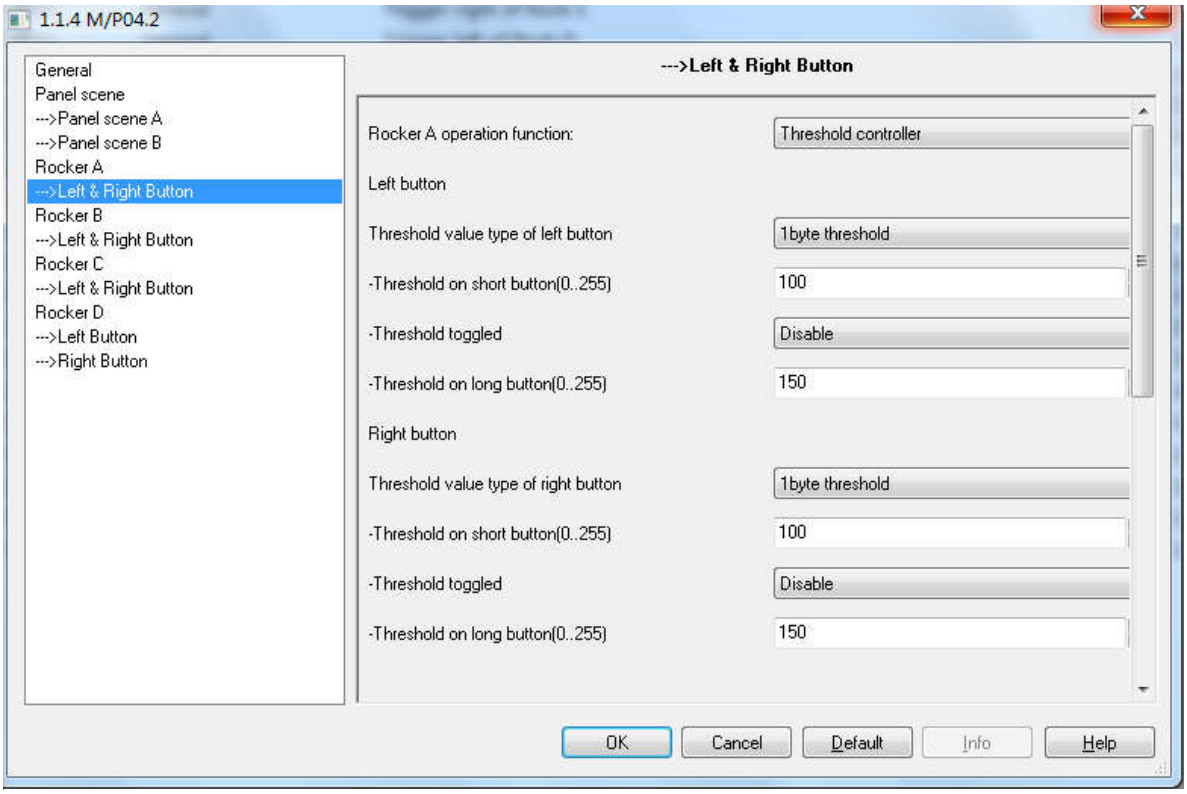


368	Percentage on left short button	0…(100%)	*Set the percentage when short press the left button*
369	Percentage toggled	-Enable -(Disable)	*Enable/disable for percentage toggled*
370	--Toggled percentage value	(0)…100%	*Set the percentage value for toggled*
371	Percentage on left long button	0…(100%)	*Set the percentage when long press the right button*
372	Percentage toggled	-Enable -(Disable)	*Enable/disable for percentage toggled*
373	--Toggled percentage value	(0)…100%	*Set the percentage value for*

			toggled
374	Percentage on right long button	(0)…100%	*Set the percentage when long press the right button*
375	Delay on short button (0…255s)	(0)…255s	*Set the delay time for short press the button*
376	Delay on long button (0…255s)	(0)…255s	*Set the delay time for long press the button*
377	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
378	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
379	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
380	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
381	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
382	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
383	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and*

			then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off '0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off

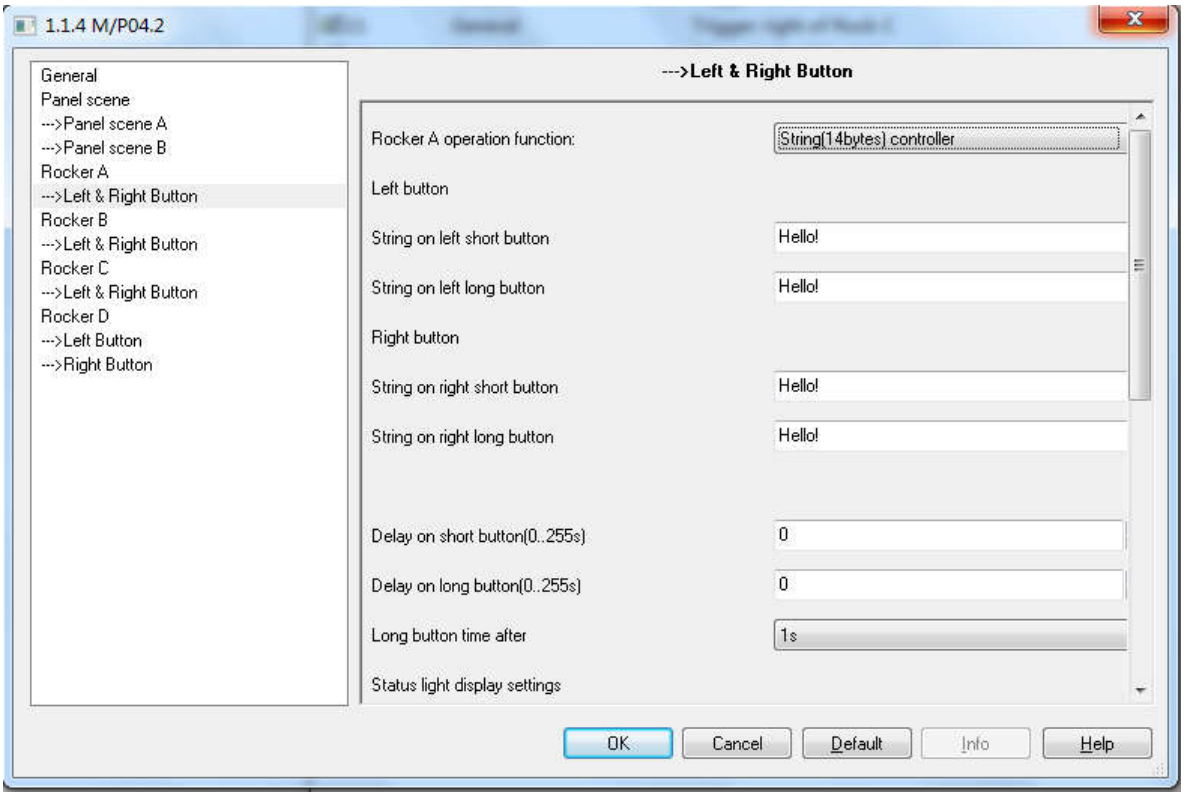
3.1.2.1.8_Threshold controller (right is same left)



384	Threshold value type of left button	-(1 byte threshold) -2 bytes threshold	*Set the type for threshold value*
385	-Threshold on short button (0…255)	0…(100)…255	*Set the parameter for threshold when short press the button*
386	--Threshold on short button (0…65535)	0…(1000)…65535	*Set the parameter for threshold when short press the button*
387	-Threshold toggled	-Enable -(Disable)	Enable/disable for threshold toggled
388	--Toggled threshold value	(0)…255	*Set the threshold value for toggled*
389	-Threshold on long button (0…255)	0…(150)…255	*Set the parameter for threshold when long press the button*
390	-Threshold on long button	0…(3000)…65535	*Set the parameter for*

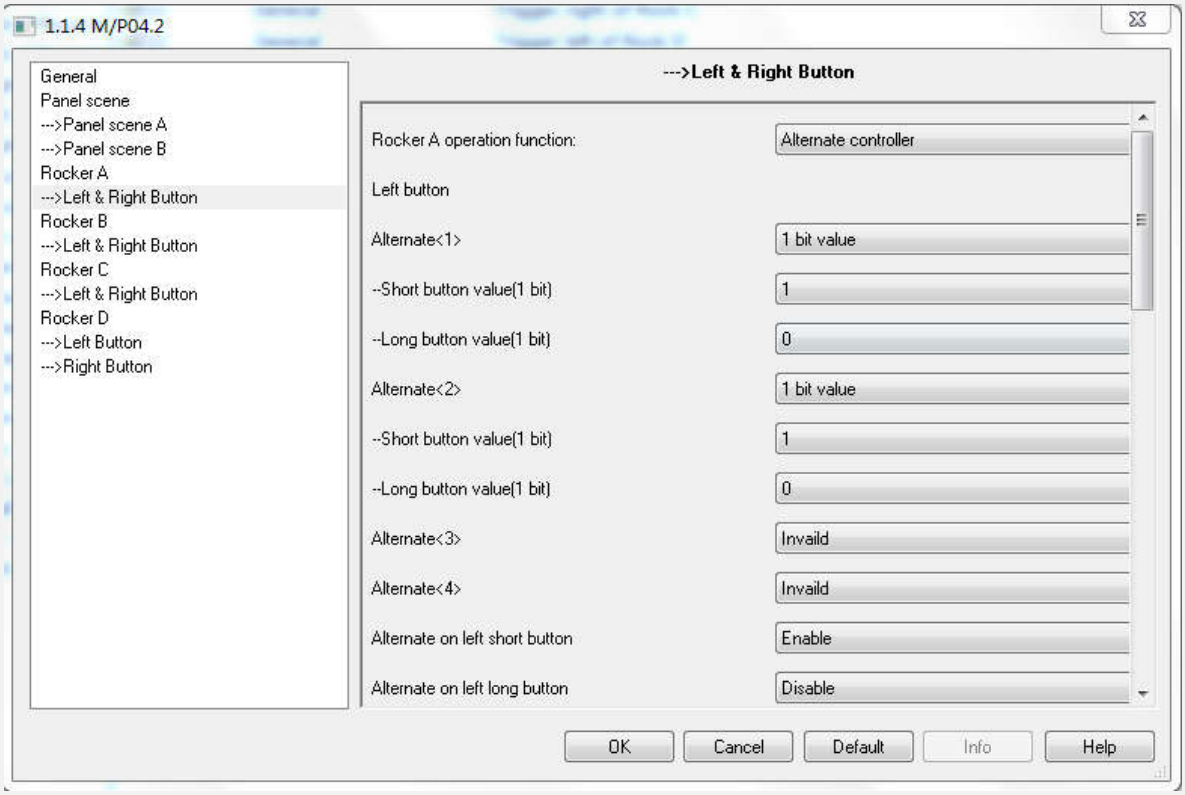
	(0…65535)		*threshold when long press the button*
391	Delay on short button (0…255s)	(0)…255s	*Set the delay time for short press the button*
392	Delay on long button (0…255s)	(0)…255s	*Set the delay time for long press the button*
393	Long button time after	0.3…(1)…60s	Set the time for long press the button
394	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
395	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
396	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
397	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
398	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
399	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B	*Add the parameter for rocker*

		-Add rocker C -Add rocker D	
400	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
401	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*
3.1.2.1.9_String(14bytes) controller			



403	String on left short button	-Hello!	*Set the parameter when*

			short press the left button
404	String on left long button	-Hello!	*Set the parameter when long press the left button*
405	String on right short button	-Hello!	*Set the parameter when short press the right button*
406	String on right long button	-Hello!	*Set the parameter when long press the button*
407	Delay on short button (0…255s)	(0)…255	*Set the delay time for short press the button*
408	Delay on long button (0…255s)	(0)…255	*Set the delay time for long press the button*
409	Long button time after	0.2…(1)…60	*Set the time for long press the button*
410	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
411	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
412	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
413	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
414	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
415	--LED mutual exclusion	-Left	*Set the reaction side for LED*

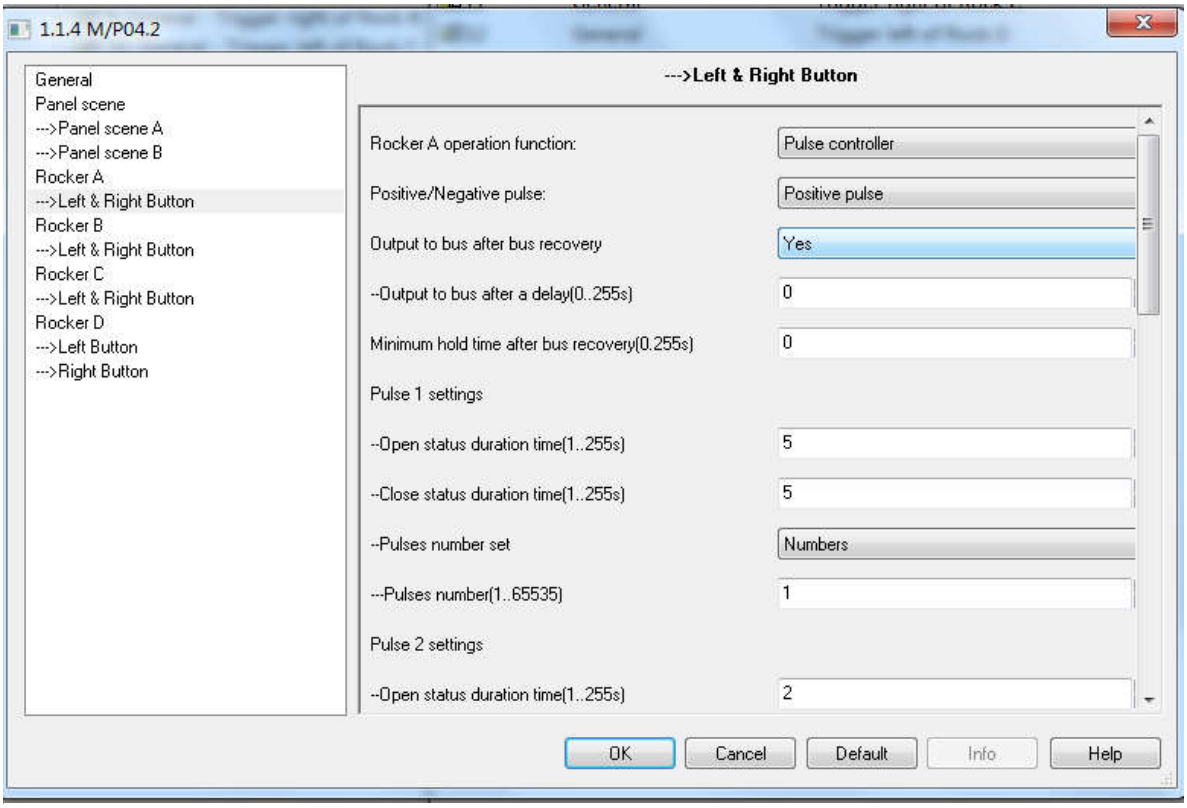
	reaction side	-Right -(Left & right)	*mutual exclusion*
416	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on* *'>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off* *'0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off*
3.1.2.1.10_Alternate controller (Alternate <1>-<4>'s setting is same.)			
			
417	Alternate <1>…<4>	-Invalid -1 bit value -1 byte value -2 byte value	*Set the parameter for alternate <1>…<4>*

418	--Short button value (1 bit)	-Toggle -0 -(1)	*Set the value for short press the button* *Toggle: when short press the button, send the telegram '0' at first, next time , will send '1'…* *0-will send the telegram value '0' when short press the button* *1-will send the telegram '1' when short press the button*
419	--Long button value (1 bit)	-Toggle -(0) -1	*Set the value for long press the button* *Toggle: when long press the button, send the telegram '0' at first, next time , will send '1'…* *0-will send the telegram value '0' when long press the button* *1-will send the telegram '1' when long press the button*
420	--Short button value(0…255)	(0)…255	*Set the value for short press the button*
421	--Long button value(0…255)	(0)…255	*Set the value for long press the button*
422	--Short button value (0…65535)	(0)…65535	*Set the value for short press the button*
423	--Long button value (0…65535)	(0)…65535	*Set the value for long press the button*
424	Alternate on left/right short button	-(Enable) -Disable	*Enable/disable for alternate when short press the left/right button*
425	Alternate on left/right long button	-Enable -(Disable)	*Enable/disable for alternate when long press the left/right button*
426	Long button time after	0.2…(1)…60	*Set the time for long press the button*
427	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.*
428	--LED status display	-(Flashing, then ON) -Flashing, then OFF	*Set the status for LED* *-Flashing, then ON: the LED*

		-Flashing, then status -ON/OFF Status	*will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
429	--Status set	-('>=1'-ON, '0'-OFF) -'>=1'-OFF, '0'-ON	*Set the parameter for status* *-'>=1'-ON, '0'-OFF: if send value is '1', the LED status is ON, if the value is '0', the LED status is OFF* *'>=1'-OFF, '0'-ON: if the value is '1', the LED status is OFF, if the value is '0', the LED status is ON*
430	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
431	--Button status reaction(1 bit)	-(Invalid) -Short button -Invert to short button -Long button -Invert to long button -Short & long button -Invert to short & long button	*Set the reaction(1 bit) for button status*
432	--Delay read LED status after power on(1…255s,0-no read)	1…(5)…255s	*Set the delay time for LED status when power on.*
433	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
434	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
435	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON: one LED will be OFF, and then other leds will be on* *'>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram*

			value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off '0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off

3.1.2.1.11_Pulse controller



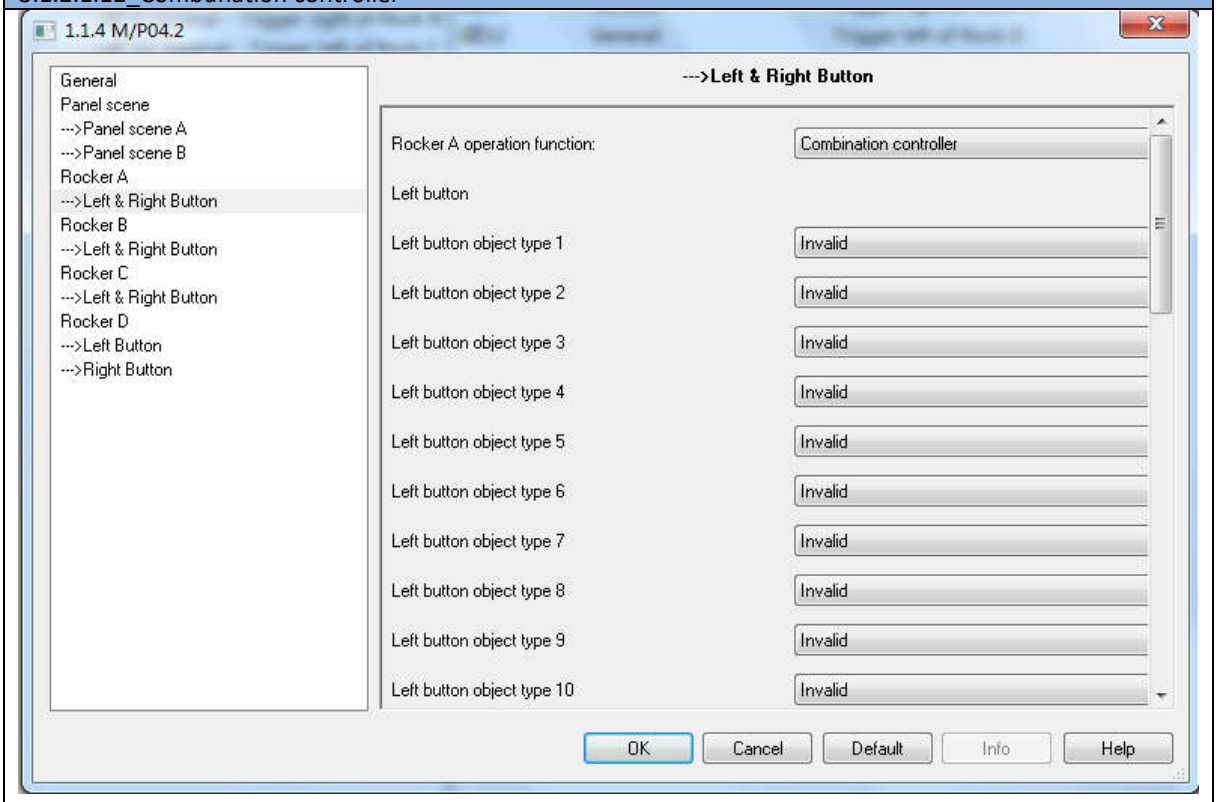
436	Positive/Negative pulse	-(Positive pulse) -Negative pulse	*Set the parameter for pulse controller*
437	--Output to bus after bus recovery	-Yes -(No)	*Enable/disable for output to bus when power on*
438	--Output to bus after a delay (0…255s)	(0)…255	*Set the delay time for output to bus*
439	Minimum hold time after bus recovery (0…255s)	(0)…255	*Set the minimum hold time when power on*
Pulse 1 settings:			
441	--Open status duration time (1…255s)	1…(5)…255	*Set the duration time for opening status*
442	--Close status duration time (1…255s)	1…(5)…255	*Set the duration time for closing status*
443	--Pulses number set	-(Number) -Send continuously	*Set the parameter for pulses number* *Number: If you set one time, will send pulse for one time* *Send continuously: will always send pulse*

444	--Pulses number (1…65535)	(1)…65535	*Set the number for sending pulse*
Pulse 2 setting			
445	--Open status duration time (1…255s)	1...(2)…255s	*Set the duration time for opening status*
446	--Close status duration time (1…255s)	1...(2)…255s	*Set the duration time for closing status*
447	--Pulses number set	-(Number) -Send continuously	*Set the parameter for pulses number* *Number: If you set one time, will send pulse for one time* *Send continuously: will always send pulse*
448	--Pulses number (1…65535)	(1)…65535	*Set the number for sending pulse*
449	Reaction on left/right short button	-Invalid -(Pulse 1) -Pulse 2 -Toggle -Stop	*Set the parameter for reaction when short press the button* *Pulse1: when short press the left/right button, will send pulse 1* *Pulse 2: when short press the left/right button, will send pulse 2* *Toggle: when short press the left/right button, will send pulse1 and next time ,will send pulse 2* *Stop: when short press the left/right button, will stop sending the pulses*
450	Reaction on left/right long button	-Invalid -Pulse 1 -(Pulse 2) -Toggle -Stop	*Set the parameter for reaction when long press the button* *Pulse 1: when long press the left/right button, will send pulse 1* *Pulse 2: when long press the left/right button, will send pulse 2* *Toggle: when long press the left/right button, will send pulse 1and next time, will send pulse 2* *Stop: when long press the left/right button, will stop sending the pulses*
451	Long button time after	0.3…(1)…60s	*Set the time for long press the button*
452	LED status source	-(Local status) -Status from bus -Mutually exclusive display	*Set the parameter for LED status source* *Local status: the LED status is depend on the local* *Status from bus: the LED status is set from the bus* *Mutually exclusive display: Set the button, when you*

			press the button, the indicator will be displayed by your setting, for example: the button is set 'Flashing ON, the other OFF' , when you press, this button's indicator will ON, others are OFF.
453	--LED status change	-(Only button pressed) -When impulse level change	*Set the parameter for LED status* *Only button pressed: press the button, the LED status will be changed* *When impulse level change: when the impulse level is changed, the LED status will be changed*
454	--LED status display	-(Flashing, then ON) -Flashing, then OFF -Flashing, then status -ON/OFF Status	*Set the status for LED* *-Flashing, then ON: the LED will flash, and then ON* *-Flashing, then OFF: the LED will flash, and then off* *Flashing, then status: the LED will flash, and according to the value, will decide ON or OFF* *ON/OFF Status: According to value, will decide ON/OFF*
455	--LED status display	-('1'-ON, '0'-OFF) -'0'-ON, '1'-OFF	*Set display for LED status* *-'1'-ON, '0'-OFF: if send the parameter value is '1', the LED will be on, if send the parameter value is '0', the LED will be off.*
456	--Delay read LED status after power on(1…255s, 0-no read)	1…(5)…255	*Set the delay time for reading LED status when power on*
457	--Add other rocker	-(Add rocker B & C &D) -Add rocker B & C -Add rocker B & D -Add rocker C & D -Add rocker B -Add rocker C -Add rocker D	*Add the parameter for rocker*
458	--LED mutual exclusion reaction side	-Left -Right -(Left & right)	*Set the reaction side for LED mutual exclusion*
459	--LED mutual exclusion display	-(Flashing ON, other leds OFF) -Flashing OFF, other leds ON - '>=1'-ON, '0'-OFF. Other leds OFF -'0'-ON, '>=1'-OFF, other leds OFF	*Set the LED display for mutual exclusion(this setting is according to the 'Add other rocker' and 'LED mutual exclusion reaction side')* *Flashing ON, other leds OFF: one LED will flash, and other leds will be OFF* *Flashing OFF, other leds ON:*

			one LED will be OFF, and then other leds will be on '>=1'-ON, '0'-OFF. Other leds OFF: If receive the telegram value >=1, one LED will be on, other leds will be off; if receive the telegram value is '0', all leds will be off '0'-ON, '>=1'-OFF, other leds OFF: if receive the telegram value '0',.one led will be on, and other leds will be off; if receive the telegram value '1', all leds will be off

3.1.2.1.12_Combunation controller



460	Left/right button object type 1…10	-(Invalid) -Switch controller -Shutter controller -Scene controller -Sequence controller -Percentage controller -Threshold controller -String (14bytes) controller	*Set the type for left/right button object*
461	-Shutter value	-Toggle -(UP) -DOWN	*Set the parameter for shutter*
462	-Scene value	-(Scene NO.01…scene NO.64)	*Set the parameter for scene*
463	-Scene toggled	-Yes -(No)	*Enable/disable the scene toggled*
464	-Toggled scene No. is	Scene N0.1 …(No.2)…SceneNO.64	*Set the scene for toggled*
465	-Sequence value	-Toggle -(Start)	*Set the parameter for sequence*

		-Stop	
466	-Percentage value	0… (100%)	*Set the value for percentage*
467	-Percentage toggled	-Yes -(No)	*Enable/disable percentage toggled*
468	-Toggled percentage is	(0)…100%	*Set the value for toggled percentage*
469	-Threshold value type	-(1 byte threshold) -2 bytes threshold	*Set the type for threshold value*
470	-Threshold (0…255) value	0…(255)	*Set the value for the threshold*
471	-Threshold (0…65535) value	0…(1000)…65535	
472	-Threshold toggled	-Yes -(No)	*Enable/disable the threshold toggled*
473	-Toggled threshold (0…255) is	(0)…255	*Set the parameter for toggled threshold*
474	-Toggled threshold (0…65535) is	(0)…65535	
475	-String (14 bytes) value	(Hello!)	*Set the parameter for String(14 bytes)*

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

D. Communication Objects

D.0 General

Objects "General"

Number	Name	Object Function	Description	Group Addresses	Length	C	R	W	T	U	Data
0	General	Heartbeat telegram			1 bit	C	-	-	T	-	
1	General	Backlight brightness			1 Byte	C	-	W	T	U	
2	General	Indicator on brightness			1 Byte	C	-	W	T	U	
3	General	Indicator off brightness			1 Byte	C	-	W	T	U	
4	General	Infrared active/inactive			1 bit	C	-	W	T	U	
5	General	Lock buttons			1 bit	C	-	W	T	U	
6	General	Trigger left of Rock A			1 bit	C	-	W	T	U	
7	General	Trigger right of Rock A			1 bit	C	-	W	T	U	
8	General	Trigger left of Rock B			1 bit	C	-	W	T	U	
9	General	Trigger right of Rock B			1 bit	C	-	W	T	U	
10	General	Trigger left of Rock C			1 bit	C	-	W	T	U	
11	General	Trigger right of Rock C			1 bit	C	-	W	T	U	
12	General	Trigger left of Rock D			1 bit	C	-	W	T	U	
13	General	Trigger right of Rock D			1 bit	C	-	W	T	U	

NO.	Object name	Function	Flags	Data type
0	General	Heartbeat telegram	C T	DPT1.003 1bit
This communication object is used to send the heartbeat telegram				
1	General	Backlight brightness	C W T U	DPT5.001 1byte
2	General	Indicator on brightness	C W T U	DPT5.001 1byte
3	General	Indicator off brightness	C W T U	DPT5.001 1 byte
These communication objects are used to set the brightness.				
4	General	Infrared active/inactive	C W T U	DPT1.003 1bit

This communication object is used to enable/disable for locking the button				
6-10	General	Trigger left/right of Rock A-D	C W T U	DPT1.008 1 bit
This communication is used to trigger left/right button				

D 1 Independent button mode

Objects “Panel scene A” (Scene A’s setting is same scene B, here, take scene A as an example)

NO.	Object name	Function	Flags	Data type
20	Panel scene A	Call scene (1 byte)	C W T U	DPT18.001 1 byte
This communication object is used to call scene(1 byte)				
21	Panel scene A	Call scene (1 bit)	C W T U	DPT1.001 1 bit
This communication object is used to call scene (1 bit)				
22	Panel scene A	Save scene (1 bit)	C W T U	DPT1.001 1 bit
This communication object is used to save scene (1 bit)				
23…32	Panel scene A	Object 1-10 value (1 bit)	C W T U	DPT1.001 1 bit
23…32	Panel scene A	Object 1-10 value (1 byte: scaling)	C W T U	DPT5.001 1 byte
23…32	Panel scene A	Object 1-10 value (0…255)	C W T U	DPT5.004 1 byte
23…32	Panel scene A	Object 1-10 value (2byte:float)	C W T U	DPT9.001 2 byte
23…32	Panel scene A	Object 1-10 value (0…65535)	C W T U	DPT7.001 2 byte
23…32	Panel scene A	Object 1-10 value (3byte:RGB)	C W T U	DPT232.600 3 byte
This communication object is used to set the object value				

Objects " Switch controller" (Rocker A-D's setting is same/ Left's setting is same as right button)

NO.	Object name	Function	Flags	Data type
60	Rocker A left short	Switching (Toggle/ON/OFF)	C W T U	DPT1.001 1 bit
61	Rocker A left long	Switching (Toggle/ON/OFF)	C W T U	DPT1.001 1 bit
62	Rocker A left delay send	Switching	C W T U	DPT1.001 1 bit
70	Rocker A left led status	Switch left led status	C W T U	DPT1.001 1 bit
This communication is used to set the switch controller				

Objects "Dimming controller"

NO.	Object name	Function	Flags	Data type
60	Rocker A left short	Switching (Toggle/ON/OFF)	C W T U	DPT 1.001 1 bit
61	Rocker A left long	Dimming	C W T U	DPT 3.007 4 bit
62	Rocker A left delay send	Switching	C W T U	DPT 1.001 1 bit
70	Rocker A left led status	Dimming left led status	C W T U	DPT 1.001 1 bit
This communication object is use to set the dimming controller				

Objects "Shutter controller"

NO.	Object name	Function	Flags	Data type
60	Rocker A left	Adjust for shutter/Stop	C W T U	DPT 1.007 1 bit
61	Rocker A left	Move for shutter	C W T U	DPT 1.008 1 bit
70	Rocker A left led status	Shutter left led status	C W T U	DPT 1.001 1 bit
This communication object is used to set the shutter controller				

Objects “Flexible controller”

NO.	Object name	Function	Flags	Data type
60	Rocker A left short	Flexible	C W T U	DPT 1.001 1 bit
61	Rocker A left long	Flexible	C W T U	DPT1.001 1 bit
70	Rocker A left led status	Flexible left led status	C W T U	DPT1.001 1 bit
This communication is used to set the flexible controller				

Objects “Scene controller”

No	Object name	Function	Flags	Data type
60	Rocker A left short	Call scene	C W T U	DPT18.001 1 Byte
61	Rocker A left long	Scene dimming	C W T U	DPT3.001 4 bit
70	Rocker A left led status	Scene left led status	C W T U	DPT1.001 1 bit
These communication objecets are used for scene controller, when you press the button, can control the scene				

Objects “Sequence controller”

NO.	Object name	Function	Flags	Data type
60	Rocker A left short	Sequence	C W T U	DPT1.010 1 bit
61	Rocker A left long	Sequence	C W T U	DPT1.010 1 bit
70	Rocker A left led status	Sequence left led status	C W T U	DPT1.010 1 bit
These communication objects are used for sequence controller, when press the button, according to your setting, control the sequence				

Objects “Percentage controller”

NO.	Object name	Function	Flags	Data type
60	Rocker A left	Percentage on left	C W T U	DPT 5.001 1 byte
70	Rocker A left led status	Percentage left led status	C W T U	DPT1.001 1 bit
This communication is used for percentage controller, when press the button, send the percentage				

Objects “Threshold controller”

NO.	Object name	Function	Flags	Data type
60	Rocker A left	Threshold (1 byte)	C W T U	DPT5.004 1 byte
60	Rocker A left	Threshold (2 bytes)	C W T U	DPT 7.001 2 bytes
70	Rocker A left led status	Threshold left led status	C W T U	DPT 1.001 1 bit
This communication object is used for threshold controller, when press button, will send the threshold value.				

Objects “String (14 bytes) controller”

NO.	Object name	Function	Flags	Data type
60	Rocker A left	String (14 bytes) value	C W T U	DPT 16.000 14 bytes
70	Rocker A left led status	String left led status	C W T U	DPT1.001 1 bit
This communication object is used for string (14 bytes) controller, when press the button, will send the string value				

Objects “Alternate controller”

NO.	Object name	Function	Flags	Data type
60	Rocker A left	Alternate <1>(1 bit)	C W T U	DPT 1.001 14 bytes
60	Rocker A left	Alternate <1>(1 byte)	C W T U	DPT5.010 1 byte

60	Rocker A left	Alternate <1>(2 byte)	C W T U	DPT7.001 2 byte
61	Rocker A left	Alternate <2>(1 bit)	C W T U	DPT 1.001 1 bit
61	Rocker A left	Alternate <2>(1 byte)	C W T U	DPT5.010 1 byte
61	Rocker A left	Alternate <2>(2 byte)	C W T U	DPT7.001 2 byte
62	Rocker A left	Alternate <3>(1 bit)	C W T U	DPT 1.001 1 bit
62	Rocker A left	Alternate <3>(1 byte)	C W T U	DPT5.010 1 byte
62	Rocker A left	Alternate <3>(2 byte)	C W T U	DPT7.001 2 byte
63	Rocker A left	Alternate <4>(1 bit)	C W T U	DPT 1.001 1 bit
63	Rocker A left	Alternate <4>(1 byte)	C W T U	DPT5.010 1 byte
63	Rocker A left	Alternate <4>(2 byte)	C W T U	DPT7.001 2 byte
70	Rocker A left	Alternate left led status	C W T U	DPT 1.001 1 bit
This communication object is used for Alternate controller				

Objects “Pulse controller”

60	Rocker A left	Pulse left	1 bit	C - W T U
70	Rocker A left	Pulse led status	1 bit	C - W T U

NO.	Object name	Function	Flags	Data type
60	Rocker A left	Pulse left	C W T U	DPT 1.009 1 bit
70	Rocker A left	Pulse led status	C W T U	DPT1.001 1 bit
This communication object is used for pulse controller, when press the button, will send the pulse value				

Objects “Combination controller”(you can set same or different type, here, take one kind of setting as an example)

60	Rocker A left	COMB OBJ1 switching	1 bit	C - - T -
61	Rocker A left	COMB OBJ2 shutter	1 bit	C - - T -
62	Rocker A left	COMB OBJ3 scene	1 Byte	C - - T -
63	Rocker A left	COMB OBJ4 sequence	1 bit	C - - T -
64	Rocker A left	COMB OBJ5 percentage	1 Byte	C - - T -
65	Rocker A left	COMB OBJ6 threshold(0..255)	1 Byte	C - - T -
66	Rocker A left	COMB OBJ7 String(14bytes)	14 Byte	C - - T -
70	Rocker A left	Combination led status	1 bit	C - W T U

NO.	Object name	Function	Flags	Data type
60	Rocker A left	COMB OBJ1 switching	C T	DPT 1.001 1 bit

61	Rocker A left	COMB OBJ2 shutter	C T	DPT 1.008 1 bit
62	Rocker A left	COMB OBJ3 scene	C T	DPT 18.001 1 byte
63	Rocker A left	COMB OBJ4 sequence	C T	DPT 1.010 1 bit
64	Rocker A left	COMB OBJ5 percentage	C T	DPT 5.001 1 byte
65	Rocker A left	COMB OBJ6 Threshold(0…255)	C T	DPT 5.004 1 byte
65	Rocker A left	COMB OBJ6 Threshold(0…65535)	C T	DPT 7.001 2 bytes
66	Rocker A left	COMB OBJ7 String(14 bytes)	C T	DPT 16. 000 14 bytes
70	Rocker A left	Combination led status	C W T U	DPT1.001 1 bit
These communication objects are used for combination controller, according to the object type, can control different target				

D 2 Combined button mode (The combined button mode’s setting is same as the independent button)

--- End of Document ---