

APPLICATION PROGRAM INFORMATION

Microwave Sensor

M/WS05.1

KNX/EIB-BUS

Document Version: 1.0, Date: _____

This document describes the M/WS05.1-functions with the KNX-product-application:_____

This product is specified in its Technical Product Information V1.0, date_____

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	7/7/2015	First issue	Jie

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

A.

The Microwave Sensor is used to operate building functions. This manual contains the programming of this device.

B.



C.

1.0_General			
Device: 1.1.1 M/WS05.1 <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> General <ul style="list-style-type: none"> Function status Logic function A Block A A1: Switching Logic function B Logic function C Logic function D Logic function E </div>			
No.	ETS-Parameter	Range (default)	Description
1	System delay(2...255s) after bus voltage recovery	(2)...255S	<i>Set the delay time for the device after power on, the range is 2~255s</i>
2	Heartbeat telegram	(Disable) Send value '0' cyclically Send value '1' cyclically Send value '0/1' inverted cyclically	<i>If the value is set '0', send '0', the device will send telegram cyclically; If the value is set '1', send '1', the device will send telegram cyclically; If the value is set '0/1', the device will send telegram alternately between 0 and 1 cyclically. If set disable, the heart telegram is invalid.</i>
3	Telegram is sent time interval(1..65535s)	(1)...65535s	<i>Set the parameter, the device will send the telegram cyclically after time out.</i>
4	LED indicator	-Always is OFF -ON when movement detected -ON when received '1', else OFF -ON when received '0', else OFF -ON when logic A is disable, else OFF -ON when logic A is enable, else OFF	<i>Set the parameter for LED indicator</i>

		<ul style="list-style-type: none"> -ON when logic B is disable, else OFF -ON when logic B is enable, else OFF -ON when logic C is disable, else OFF -ON when logic C is enable, else OFF -ON when logic D is disable, else OFF -ON when logic D is enable, else OFF -ON when logic E is disable, else OFF -ON when logic E is enable, else OFF 	
5	(1)Microwave sensor sensitivity (1%-100%)	1...(80)...100	<i>Set the parameter for microwave sensor sensitivity</i>
6	-> Microwave sensor sensitivity via bus	-Enable -(Disable)	<i>Enable/disable for microwave sensor sensitivity via bus</i>
7	(2) Brightness quiver (5...30%)	<ul style="list-style-type: none"> -(5%) -10% -15% -20% -25% -30% 	<i>Set the parameter for brightness quiver</i>
8	->Lux compensation (-500Lux...+500Lux)	-500...(0)...+500	<i>Set the parameter for lux compensation</i>
9	(3)Temperature hysteresis(0.1'C)	1...(10)...50	<i>Set the parameter for temperature hysteresis</i>
10	->Temperature compensation 0.1'C	-100...(0)...100	<i>Set the parameter for temperature compensation</i>
11	(4)Humidity hysteresis (1...10%)	(1)...10	<i>Set the parameter for humidity hysteresis</i>
12	-> Humidity compensation (-10%...+10%)	-10...(0)...10	<i>Set the parameter for humidity compensation</i>
13	(5)Dry contact 1 for logic	<ul style="list-style-type: none"> -(Disable) -Mechanical switch -Electronic switch 	<i>Set the parameter for dry contact 1 for logic</i>
Mechanical switch			
14	-> Status when closing the contact	<ul style="list-style-type: none"> -Unchanged -Toggle -(Constant to True ('1')) -Constant to False ('0') 	<p><i>Set the parameter for status when closing the contact</i></p> <p><i>Unchanged: when closing the contact, the status will be unchanged</i></p> <p><i>Toggle: when closing the contact, status will be toggle between true and false</i></p> <p><i>Constant to True(1): when closing the contact, the</i></p>

			<i>status will be constant to true Constant to False: when closing the contact, the status will be constant to false</i>
15	-> Status when opening the contact	-Unchanged -Toggle -Constant to True ('1') -(Constant to False ('0'))	<i>Set the parameter for status when opening the contact Set the parameter for status when opening the contact Unchanged: when opening the contact, the status will be unchanged Toggle: when opening the contact, status will be toggle between true and false Constant to True(1): when opening the contact, the status will be constant to true Constant to False: when opening the contact, the status will be constant to false</i>
Electronic switch			
16	->Button value when voltage recovery	-(Last value) -Value is True ('1') -Value is False('0')	<i>Set the parameter for button value when voltage recovery</i>
17	Status when short button operation	-Invalid -(Toggle) -Constant to True ('1') -Constant to False ('0')	<i>Set the parameter for status when short button operation Unchanged: when short press the button, the status will be unchanged Toggle: when short press the button, status will be toggle between true and false Constant to True(1): when short press the button, the status will be constant to true Constant to False: when short press the button, the status will be constant to false</i>
18	Status when long button operation	-(Invalid) -Toggle -Constant to True ('1') -Constant to False ('0')	<i>Set the parameter for status when long button operation Unchanged: when long press the button, the status will be unchanged Toggle: when long press the button, status will be toggle</i>

			<i>between true and false Constant to True(1): when long press the button, the status will be constant to true Constant to False: when long press the button, the status will be constant to false</i>
19	-->Long button time after 0.1s(0.2s~20S)	0.2...(10)...20	<i>Set the parameter for long button time after 0.1s</i>
20	(6)Dry contact 2 for logic	-{Disable} -Mechanical switch -Electronic switch	<i>Set the parameter for dry contact 2 for logic</i>
Mechanical switch			
21	-> Status when closing the contact	-Unchanged -Toggle -(Constant to True ('1')) -Constant to False ('0')	<i>Set the parameter for status when closing the contact Unchanged: when closing the contact, the status will be unchanged Toggle: when closing the contact, status will be toggle between true and false Constant to True(1): when closing the contact, the status will be constant to true Constant to False: when closing the contact, the status will be constant to false</i>
22	-> Status when opening the contact	-Unchanged -Toggle -Constant to True ('1') -(Constant to False ('0'))	<i>Set the parameter for status when opening the contact Set the parameter for status when opening the contact Unchanged: when opening the contact, the status will be unchanged Toggle: when opening the contact, status will be toggle between true and false Constant to True(1): when opening the contact, the status will be constant to true Constant to False: when opening the contact, the status will be constant to false</i>
Electronic switch			
23	->Button value when voltage recovery	-(Last value) -Value is True ('1')	<i>Set the parameter for button value when voltage recovery</i>

		-Value is False('0')	
24	Status when short button operation	-Invalid -(Toggle) -Constant to True ('1') -Constant to False ('0')	<i>Set the parameter for status when short button operation</i> <i>Unchanged: when short press the button, the status will be unchanged</i> <i>Toggle: when short press the button, status will be toggle between true and false</i> <i>Constant to True(1): when short press the button, the status will be constant to true</i> <i>Constant to False: when short press the button, the status will be constant to false</i>
25	Status when long button operation	-(Invalid) -Toggle -Constant to True ('1') -Constant to False ('0')	<i>Set the parameter for status when long button operation</i> <i>Unchanged: when long press the button, the status will be unchanged</i> <i>Toggle: when long press the button, status will be toggle between true and false</i> <i>Constant to True(1): when long press the button, the status will be constant to true</i> <i>Constant to False: when long press the button, the status will be constant to false</i>
26	-->Long button time after 0.1s(0.2s~20S)	0.2...(10)...20	<i>Set the parameter for long button time after 0.1s</i>
27	Extend dry contact function	-Enable -(Disable)	<i>Enable/disable for extend dry contact function</i>
28	Constant brightness function A	-Enable -(Disable)	<i>Enable/disable for constant brightness function A</i>
29	Constant brightness function B	-Enable -(Disable)	<i>Enable/disable for constant brightness function B</i>
1.1_Constant brightness A (Constant brightness A's setting is same as B, here, take A as an example)			

<p>Device: 1.1.1 M/WS05.1</p> <table border="1"> <tr> <td style="vertical-align: top;"> General Function status Dry contact function Constant brightness A Constant brightness B Logic function A Block A A1: Switching Logic function B Logic function C Logic function D Logic function E </td><td> Lux value from Local lux sensor -> Constant brightness value(0~15K lux) 100 Change constant brightness value via bus Lux quiver(n%): constant brightness lux* ((1-n%) and (1+n%)) 10% Output setting: Minimum dimming time interval limit (0.1~5.0 s) 1.0 s Minimum dimming step value limit (1~10%) 1% Maximum dimming step value limit (1~10%) 5% Minimum dimming value limit 0% Maximum dimming value limit 100% First dimming value of constant brightness after power on 80% Operational setting: Constant brightness control after power on Start Constant brightness control start/stop Disable </td></tr> </table>				General Function status Dry contact function Constant brightness A Constant brightness B Logic function A Block A A1: Switching Logic function B Logic function C Logic function D Logic function E	Lux value from Local lux sensor -> Constant brightness value(0~15K lux) 100 Change constant brightness value via bus Lux quiver(n%): constant brightness lux* ((1-n%) and (1+n%)) 10% Output setting: Minimum dimming time interval limit (0.1~5.0 s) 1.0 s Minimum dimming step value limit (1~10%) 1% Maximum dimming step value limit (1~10%) 5% Minimum dimming value limit 0% Maximum dimming value limit 100% First dimming value of constant brightness after power on 80% Operational setting: Constant brightness control after power on Start Constant brightness control start/stop Disable
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30	Lux value from	- -(Local lux sensor) -External lux telegram	<i>Set the parameter for lux value</i> <i>Local lux sensor: the lux value is depend on the local lux sensor</i> <i>External lux telegram: the lux value is depend on the external lux telegram</i>		
31	-> Constant brightness value (0-15K lux)	0...(100)...1500	<i>Set the value for constant brightness</i>		
32	Change constant brightness value via bus	-Enable -(Disable)	<i>Enable/disable for changing constant brightness value</i>		
33	Lux quiver(n%): constant brightness lux (1-n%) and (1+n%)	-5% -(10%) -15% -20% -25% -30%	<i>Set the value for lux quiver</i>		
34	Minimum dimming time interval limit (0.1~5.0s)	0.1...(1)...5.0s	<i>Set the dimming time for interval limit</i>		
35	Minimum dimming step value limit (1~10%)	(1)...10	<i>Set the value for minimum dimming step value limit</i>		
36	Maximum dimming step value limit (1~10%)	1...(5)...100	<i>Set the value for maximum dimming step value limit</i>		
37	Minimum dimming value limit	(0)...100%	<i>Set the value for minimum dimming</i>		
38	Maximum dimming value limit	0...(100)	<i>Set the value for maximum dimming</i>		
39	First dimming value of constant brightness after	0...(80)...100 Last dimming value	<i>Set the first dimming value for constant brightness</i>		

	power on		<i>when power on</i>
40	Constant brightness control after power on	-Stop -(Start) -Recovery	<i>Set the parameter for constant brightness control when power on</i>
41	Constant brightness control start/stop via bus	-Enable('1'-Start/ '0'-Stop) -Enable ('1'-Start/ '0'-Stop) -(Disable)	<i>Set the parameter for constant brightness control</i> <i>Enable('1'-Start/ '0'-Stop): if receive the telegram value '1', the constant brightness will be started, if receive the telegram value '0', the constant brightness will be stopped</i> <i>Enable('1'-Start/ '1'-Stop): if receive the telegram value '1' or '0', the constant brightness will be started</i>
42	Output dimming value after constant brightness control stopped	-0...100% -(Unchanged)	<i>Set the parameter for output dimming value when constant brightness control stopped</i>
43	Forced operation	-Enable -(Disable)	<i>Enable/disable for forced operation</i>
44	Trigger	-Enable -(Disable)	<i>Enable/disable for trigger</i>
45	Dimming speed (for PI)	-Defined -Lowest(Ki=1%,Kp=1%) -Lower (Ki=5%, Kp=5%) -Low (Ki=10%, Kp=10%) -Middle (Ki=15%, Kp=15%) -Fast (Ki=30%, Kp=30%) -Faster (Ki=60%, Kp=60%) -Fastest (Ki=100%, Kp=100%)	<i>Set the parameter for dimming speed (for PI)</i>
46	-> Constant brightness Kp (for PI)	1...(15)...100	<i>Set the parameter for constant brightness Kp</i>
47	-> Constant brightness Ki (for PI)	1...(15)...100	<i>Set the parameter for constant brightness Ki</i>

1.1.1_A: Forced operation

Device: 1.1.1 M/WS05.1	General Function status Dry contact function Constant brightness A A: Forced operation A: Trigger Constant brightness B Logic function A Block A A1: Switching Logic function B Logic function C Logic function D Logic function E	The forced operation status after power on No operation Forced operation A1 Disable
48	The forced operation	-No operation

	status after power on	-Last forced operation -To forced operation A1 -To forced operation A2 -To forced operation A3 -To forced operation A4	<i>operation</i>
49	-> Forced operation start/stop (stop: back to constant brightness output)	-('1'- Start, '0'-Stop) -'0'-Start, '1'-Stop - '1/0'- Start - '1/0'- Stop	<i>Set the parameter for forced operation</i> <i>'1'-Start, '0'- Stop: if receive telegram value '1', will start, if receive telegram value '0', will stop: back to constant brightness output</i> <i>'0'-Start, '1'- Stop: if receive telegram value '0', will start, if receive telegram value '1', will stop: back to constant brightness output</i> <i>'1/0'-Start: if receive telegram value '1' or '0', will start</i> <i>'1/0'-Stop: if receive telegram value '1' or '0', will stop: back to constant brightness output</i>
50	->Forced operation dimming value	(0)...100	<i>Set the dimming value for forced operation</i>
51	-> Change forced dimming value via bus	-Enable -(Disable)	<i>Enable/disable for changing forced dimming value via bus</i>
52	Forced operation A2	-Enable -(Disable)	<i>Enable/disable for forced operation A2</i>
53	->Forced operation start/stop (stop: back to constant brightness output)	-('1'- Start, '0'-Stop) -'0'-Start, '1'-Stop - '1/0'- Start - '1/0'- Stop	<i>Set the parameter for forced operation</i> <i>'1'-Start, '0'- Stop: if receive telegram value '1', will start, if receive telegram value '0', will stop: back to constant brightness output</i> <i>'0'-Start, '1'- Stop: if receive telegram value '0', will start, if receive telegram value '1', will stop: back to constant brightness output</i> <i>'1/0'-Start: if receive telegram value '1' or '0', will start</i> <i>'1/0'-Stop: if receive telegram value '1' or '0', will stop: back to constant brightness output</i>
54	->Forced operation	0...(100%)	<i>Set the dimming value for</i>

	dimming value		<i>forced operation</i>
55	-> Change forced dimming value via bus	-Enable -(Disable)	<i>Enable/disable for changing forced dimming value via bus</i>
56	Forced operation A3	-Enable -(Disable)	<i>Enable/disable for forced operation A3</i>
57	->Forced operation start/stop (stop: back to constant brightness output)	-('1'- Start, '0'-Stop) -'0'-Start, '1'-Stop - '1/0'- Start - '1/0'- Stop	<i>Set the parameter for forced operation</i> <i>'1'-Start, '0'- Stop: if receive telegram value '1', will start, if receive telegram value '0', will stop: back to constant brightness output</i> <i>'0'-Start, '1'- Stop: if receive telegram value '0', will start, if receive telegram value '1', will stop: back to constant brightness output</i> <i>'1/0'-Start: if receive telegram value '1' or '0', will start</i> <i>'1/0'-Stop: if receive telegram value '1' or '0', will stop: back to constant brightness output</i>
58	->Forced operation dimming value	0...(80)...100%	<i>Set the dimming value for forced operation</i>
59	-> Change forced dimming value via bus	-Enable -(Disable)	<i>Enable/disable for changing forced dimming value via bus</i>
60	->Forced operation start/stop (stop: back to constant brightness output)	-('1'- Start, '0'-Stop) -'0'-Start, '1'-Stop - '1/0'- Start - '1/0'- Stop	<i>Set the parameter for forced operation</i> <i>'1'-Start, '0'- Stop: if receive telegram value '1', will start, if receive telegram value '0', will stop: back to constant brightness output</i> <i>'0'-Start, '1'- Stop: if receive telegram value '0', will start, if receive telegram value '1', will stop: back to constant brightness output</i> <i>'1/0'-Start: if receive telegram value '1' or '0', will start</i> <i>'1/0'-Stop: if receive telegram value '1' or '0', will stop: back to constant brightness output</i>
61	->Forced operation dimming value	0...(50)...100	<i>Set the dimming value for forced operation</i>

62	-> Change forced dimming value via bus	-Enable -(Disable)	Enable/disable for changing forced dimming value via bus
1.1.2_A: Trigger			
	Device: 1.1.1 M/WS05.1		
	General	Constant brightness object trigger 1	Disable
	Function status	Constant brightness object trigger 2	Disable
	Dry contact function	Constant brightness object trigger 3	Disable
	Constant brightness A		
	A: Forced operation		
	A: Trigger		
	Constant brightness B		
	Logic function A		
	Block A		
	A1: Switching		
	Logic function B		
	Logic function C		
	Logic function D		
	Logic function E		
63	Constant brightness object trigger 1	-Enable -(Disable)	Enable/disable for constant brightness object trigger1
64	Object value '0' trigger	-(Enable) -Disable	Enable/disable for object value '0' trigger
65	-> Constant brightness value	-(To new lux) -To the lux before triggered	Set the parameter for constant brightness value
66	->> New lux (0~15K lux)	(0)...15000	Set the value for new lux
67	Object value '1' trigger	-(Enable) -Disable	Enable/disable for object value '0' trigger
68	-> Constant brightness value	-(To new lux) -To the lux before triggered	Set the parameter for constant brightness value
69	->> New lux (0~15K lux)	0...(40)...15000	Set the value for new lux
70	Constant brightness object trigger 2	-Enable -(Disable)	Enable/disable for constant brightness object trigger 2
71	Object value '0' trigger	-(Enable) -Disable	Enable/disable for object value '0' trigger
72	-> Constant brightness value	-(To new lux) -To the lux before triggered	Set the parameter for constant brightness value
73	->> New lux (0~15K lux)	0...(60)...15000	Set the value for new lux
74	Object value '1' trigger	-(Enable) -Disable	Enable/disable for object value '0' trigger
75	-> Constant brightness value	-(To new lux) -To the lux before triggered	Set the parameter for constant brightness value
76	->> New lux (0~15K lux)	0...(90)...15000	Set the value for new lux
77	Constant brightness object trigger 3	-Enable -(Disable)	Enable/disable for constant brightness object trigger 2
78	Object value '0' trigger	-(Enable)	Enable/disable for object

		-Disable	<i>value '0' trigger</i>
79	-> Constant brightness value	-(To new lux) -To the lux before triggered	<i>Set the parameter for constant brightness value</i>
80	->> New lux (0~15K lux)	0...(120)...15000	<i>Set the value for new lux</i>
81	Object value '1' trigger	-(Enable) -Disable	<i>Enable/disable for object value '0' trigger</i>
82	-> Constant brightness value	-(To new lux) -To the lux before triggered	<i>Set the parameter for constant brightness value</i>
83	->> New lux (0~15K lux)	0...(150)...15000	<i>Set the value for new lux</i>

2.0_Function status

Device: 1.1.1 M/WS05.1

General Function status Dry contact function Constant brightness A A: Forced operation A: Trigger Constant brightness B Logic function A Block A A1: Switching Logic function B Logic function C Logic function D Logic function E	(1)Slave microwave sensor status report <input type="button" value="No"/> (2)Brightness report <input type="button" value="No"/> (3)Temperature report <input type="button" value="No"/> (4)Humidity report <input type="button" value="No"/> (5)Dry contact 1 report <input type="button" value="No"/> (6)Dry contact 2 report <input type="button" value="No"/>
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No.	ETS-Parameter	Range (default)	Description
84	(1)Slave movement status	-Yes -(No)	<i>Enable/disable for slave movement status</i>
85	->Transmit telegram value when movement detected	-Slave value '0' -(Slave value '1')	<i>Set the parameter for transmit telegram value when movement detected</i>
86	(2)Brightness report	-Yes -(No)	<i>Enable/disable for brightness report</i>
87	->Lux report mode	-(Report when changed) -Report cyclic	<i>Set the parameter for lux report mode</i> <i>Report when changed: when the lux is changed, will report</i> <i>Report cyclic: the lux will report cyclically</i>
88	-> Differential value for report (1...200lux)	1...(20)...200	<i>Set the parameter for differential value for report</i>
89	->Minimum time interval (1...255s)	(1)...255	<i>Set the parameter for minimum time interval</i>
90	->Lux report cycle (1...255s)	1...(10)...255	<i>Set the time for lux report cycle</i>
91	(3)Temperature report	-Yes -(No)	<i>Enable/disable for temperature report</i>
92	->Temperature report mode	-(Report when changed) -Report cyclic	<i>Set the parameter for temperature report mode</i> <i>Report when changed:</i>

			<i>when the temperature is changed, will report Report cyclic: the temperature will report cyclically</i>
93	->Differential value for report 0.1'C	1...(10)...50	<i>Set the parameter for differential value for report</i>
94	->Temperature report cycle (1...255s)	1...(10)...255	<i>Set the parameter for temperature report cycle</i>
95	(4)Humidity report	-Yes -(No)	<i>Enable/disable for humidity report</i>
96	-> Humidity report mode	-Report when changed) -Report cyclic	<i>Set the parameter for humidity report mode Report when changed: when the humidity is changed, will report Report cyclic: the humidity will report cyclically</i>
97	->Differential value for report (1..10%)	1...(3)...10	<i>Set the parameter for differential value for report</i>
98	->Humidity report cycle (1...255s)	1...(10)...255	<i>Set the parameter for humidity report cycle</i>
99	(5)Dry contact 1 report	-Yes -(No)	<i>Enable/disable for dry contact 1 report</i>
100	-> Dry contact 1 report mode	-(Contact action) -When status value changed -True -False -Contact action and periodically -When status value changed and periodically -True and periodically -False and periodically	<i>Set the parameter for dry contact 1 report mode</i>
101	->> Report cycle time(1...255s)	1...(10)...255	<i>Set the parameter for report cycle time</i>
102	(6)Dry contact 2 report	-Yes -(No)	<i>Enable/disable for dry contact 1 report</i>
103	-> Dry contact 1 report mode	-(Contact action) -When status value changed -True -False -Contact action and periodically -When status value changed and periodically -True and periodically -False and periodically	<i>Set the parameter for dry contact 1 report mode</i>
104	->> Report cycle time(1...255s)	1...(10)...255	<i>Set the parameter for report cycle time</i>
3.0_Dry contact function			

<p>Device: 1.1.1 M/WS05.1</p> <p>General Function status Dry contact function Constant brightness A A: Forced operation A: Trigger Constant brightness B Logic function A Block A A1: Switching Logic function B Logic function C Logic function D Logic function E</p> <table border="1"> <tr> <td><1>Dry contact 1 type</td><td>Invalid</td></tr> <tr> <td><2>Dry contact 2 type</td><td>Invalid</td></tr> </table>				<1>Dry contact 1 type	Invalid	<2>Dry contact 2 type	Invalid
<1>Dry contact 1 type	Invalid						
<2>Dry contact 2 type	Invalid						
105	<1>Dry contact 1 type	- (Invalid) - Mechanical switch - Electronic switch - LED status display	<i>Set the parameter for dry contact 1 type</i>				
Mechanical switch							
106	Dry contact operation function	- Switch controller - Dimming controller - (Scene controller) - Percentage controller	<i>Set the parameter for movement sensor</i>				
107	Reaction on dry contact closing	- Invalid - Toggle - (ON) - OFF	<i>Set the parameter for reaction on dry contact closing</i>				
108	->Delay for switch ON of closing	(0)...255	<i>Set the parameter for delay for switch ON for closing</i>				
109	->Delay for switch OFF of closing	(0)...255	<i>Set the parameter for delay for switch OFF of closing</i>				
110	Reaction on dry contact opening	- Invalid - Toggle - ON - (OFF)	<i>Set the parameter for reaction on dry contact opening</i>				
111	->Delay for switch ON of closing	(0)...255	<i>Set the parameter for delay for switch ON for closing</i>				
112	->Delay for switch OFF of closing	(0)...255	<i>Set the parameter for delay for switch OFF of closing</i>				
113	Reaction on dry contact closing	(1)...255	<i>Set the parameter for reaction on dry contact closing</i>				
114	Reaction on dry contact closing	- Invalid - Dim->Brighter - Dim->Darker - (Dim->Brighter/Darker) - Dim->Stop	<i>Set the parameter for reaction on dry contact closing</i>				
115	->Delay operation for dry contact closing	(0)...255	<i>Set the parameter for delay operation for dry contact closing</i>				
116	Reaction on dry contact opening	- Invalid - Dim->Brighter - Dim->Darker - Dim->Brighter/Darker - (Dim->Stop)	<i>Set the parameter for reaction on dry contact opening</i>				
117	->Delay operation for dry contact opening	(0)...255	<i>Set the parameter for delay operation for dry contact</i>				

			<i>opening</i>
118	Dimming steps	-Step1(100%) -Step 2 (50%) -Step3 (25%) -Step4 (12.5%) -Step5 (6.25%) -Step6 (3.13%) -Step7(1.65%)	<i>Set the parameter for dimming steps</i>
119	Dimming telegram repeat enabled (valid only when dimming up/down)	-Enable -(Disable)	<i>Enable/disable for dimming telegram repeat enabled</i>
120	->Dimming telegram repeat time 0.1s (0.2-20s)	0.2...(10)...20	<i>Set the parameter for dimming telegram repeat time</i>
121	->Dimming telegram repeat Number (1...255, 0-unlimited)	1...(10)...255	<i>Set the parameter for dimming telegram repeat Number</i>
122	Reaction on dry contact closing	-Invalid -Scene NO.01...(Scene NO04)...Scene NO.64	<i>Set the parameter for reaction on dry contact closing</i>
123	->Delay operation for dry contact closing	(0)...255	<i>Set the parameter for delay operation for dry contact closing</i>
124	Reaction on dry contact opening	-Invalid -Scene NO.01...(Scene NO07)...Scene NO.64	<i>Set the parameter for reaction on dry contact opening</i>
125	->Delay operation for dry contact opening	(0)...255	<i>Set the parameter for reaction on dry contact opening</i>
126	Reaction on dry contact closing	-Invalid 0% (0-OFF)...(100%(255))	<i>Set the parameter for reaction on dry contact closing</i>
127	->Delay operation for dry contact closing	(0)...255	<i>Set the parameter for delay operation for dry contact closing</i>
128	Reaction on dry contact opening	-Invalid (0% (0-OFF))...100%(255)	<i>Set the parameter for reaction on dry contact opening</i>
129	->Delay operation for dry contact opening	(0)...255	<i>Set the parameter for delay operation for dry contact opening</i>
130	<2>Dry contact 2 type	All setting is same as 1	All setting is same as 1

4.0 Logic function**4.1 Logic function A (Logic function B-E's setting is same as A, here take logic function A as an example)**

Device: 1.1.1 M/WS05.1

General	Use logical block A	Yes
Function status	(1)Enable microwave sensor	Single mode(independent sensor)
Dry contact function	->Microwave sensor status	Microwave sensor detected is True,else is False
Constant brightness A	(2)Enable brightness(Lux) sensor	Disable
A: Forced operation	(3)Enable temperature sensor	Disable
A: Trigger	(4)Enable humidity sensor	Disable
Constant brightness B	(5)Enable external telegram 1	Disable
Logic function A	(6)Enable external telegram 2	Disable
Block A	(7)Enable dry contact 1 input	Disable
A1: Switching	(8)Enable dry contact 2 input	Disable
Logic function B	Logical relation of block A	AND
Logic function C	Result of logic A inverted	No
Logic function D	Status(True/False) of logic A to bus	
Logic function E	Disable	

No.	ETS-Parameter	Range (default)	Description
131	Use logical block A	- (Yes) - No	Enable/disable for using logical block A
132	(1)Enable microwave sensor	-Disable -(Single mode(independent sensor)) -Master/slave mode (Master sensor)	Set the parameter for enable microwave sensor
133	->Microwave sensor status	-Microwave sensor detected is False, else is True (Microwave sensor detected is True, else is False)	Set the parameter for microwave sensor status
134	->Local microwave sensor status	-Microwave sensor detected is False, else is True (Microwave sensor detected is True, else is False)	Set the parameter for local microwave sensor status
135	->Master is set to True when receive	-Slave value- '0' -(Slave value- '1')	Set the parameter for master is set to True when receive
136	Enable brightness(Lux) sensor	-Enable -(Disable)	Enable/disable for enable brightness(Lux) sensor
137	Enable brightness (Lux) threshold A	- (Enable) - Disable	Enable/disable for enable brightness(lux) threshold A
138	->Lux>=Threshold lower (0~15k lux)	0...(100)...15000	Set the parameter for lux>=Threshold lower
139	->Lux<=Threshold upper (0~15k lux)	0...(300)...15000	Set the parameter for lux<=Threshold upper
140	->Changed lux threshold value via bus	-Yes -(No)	Enable/disable for changing lux threshold value via bus Yes: can change lux threshold

			<i>value via bus No: cannot change lux threshold value via bus</i>
141	->Brightness(Lux) status	-{In range is True, else False) -Out range is True, else False -Under lower is True, above upper is False -Under lower is False, above upper is True	<i>Set the parameter for brightness(lux) status</i>
142	-->The status after bus voltage recovery	-True -(False)	<i>Set the parameter for the status</i>
143	->Independent control <object output 8>	-Yes(separated from logic and output) -(No)	<i>Enable/disable for independent control <object output 8></i>
144	-->Enable/disable independent control via bus	-Yes -(No)	<i>Yes: Enable independent control via bus No: Disable independent control via bus</i>
145	-->Operation mode	-{'1'-Enable, '0'-Disable} - '0'-Enable, '1'-Disable -'1/0'-Disable -'1/0'-Enable -'1'-Enable, '0'-Invalid -'0'-Enable, '1'-Invalid -'1'-Disable, '0'-Invalid -'0'-Disable, '1'-Invalid	<i>Set the parameter for operation mode</i>
146	--><Object output 8> status when independent control disabled	-Unchanged -True -False -True and immediately output -(False and immediately output)	<i>Set the parameter for< object output8>status</i>
147	(3)Enable temperature sensor	-Enable -(Disable)	<i>Enable/disable for temperature sensor</i>
148	->Temperature>=Threshold lower (0.1'C)	-300...(220)...700	<i>Set the parameter for temperature>=Threshold lower(0.1'C)</i>
149	->Temperature<=Threshold upper (0.1'C)	-300...(260)...700	<i>Set the parameter for temperature<=Threshold upper(0.1'C)</i>
150	->changed temperature threshold value via bus	-Yes -(No)	<i>Enable/disable for changing temperature threshold value via bus Yes: can change temperature threshold value via bus No: cannot change temperature threshold value via bus</i>
151	->Temperature status	-{In range is True, else False) -Out range is True, else False -Under lower is True, above upper is False -Under lower is False, above upper is True	<i>Set the parameter for temperature status</i>
152	-->The status after bus voltage recovery	-True -(False)	<i>True/False for the status after bus voltage recovery</i>
153	(4)Enable humidity sensor	-Enable	<i>Enable/disable for humidity</i>

		-(Disable)	sensor
154	->Humidity >=Threshold lower (20%...95%)	(20)...95	Set the parameter for humidity >=Threshold lower
155	->Humidity<=Threshold upper (20%...95%)	20...(60)...95	Set the parameter for humidity<=Threshold upper
156	->Changed humidity threshold value via bus	-Yes -(No)	Enable/disable for changing humidity threshold value via bus Yes: can change humidity threshold value via bus No: cannot change humidity threshold value via bus
157	->Humidity status	- (In range is True, else False) --Out range is True, else False -Under lower is True, above upper is False -Under lower is False, above upper is True	Set the parameter for humidity status
158	-->The status after bus voltage recovery	-True -(False)	True/false for the status after bus voltage recovery
159	Enable external telegram 1	- (1 bit value ('1'/'0')) -1 byte threshold (0...255) -2 bytes threshold (0...65535) -2 bytes float threshold (-50'C...100'C) -4 bytes threshold (0...2147483647)	Set the parameter for enable external telegram 1
160	->Extern telegram status	- ('1' is True, '0' is False) -'0' is True, '1' is False	Set the parameter for extern telegram status
161	->Default status after bus voltage recovery	- (True) -False -Recovery	Set the parameter for default status after voltage recovery
162	->1byte threshold (0...255)	0...(100)...255	Set the parameter for 1 byte threshold
163	->Extern telegram status	- (True if REV value >= Threshold, else False) -True if REV value <= Threshold, else False	Set the parameter for extern telegram status
164	->2 byte threshold (0...65535)	0...(1000)...65535	Set the parameter for 2 byte threshold
165	->2 byte float threshold (0.1'C)	-500...(250)...1000	Set the parameter for 2 byte Float threshold
166	->4 byte threshold (0...2147483647)	0...(1000000)...2147483647	Set the parameter for 4 byte threshold
167	Enable external telegram 2	All setting is same as 1	All setting is same as 1
168	Enable dry contact 1 input	-Enable -(Disable)	Enable/disable for dry contact 1 input
169	->Dry contact 1 status	- ('1' is True, '0' is False) -'0' is True, '1' is False	Set the parameter for dry contact 1 status
170	Enable dry contact 2 input	All setting is same as 1	All setting is same as 1
171	Logical relation of block A	- (AND) -OR	Set the parameter for logical relation of block A AND: All conditions should be satisfied OR: One condition is satisfied, the logic will trigger

172	Result of logic A inverted	-Yes -(NO)	<i>Enable/disable for result of logical A inverted</i>
173	Status(True/False) of logic A to bus	-Enable -(Disable)	<i>Enable/disable for status (True/false) of logic A to bus</i>
174	->Send status when	-Status changed -Status is True -Status is False -Status changed and periodically -Status is True and periodically -Status is False and periodically	<i>Set the parameter for sending status</i> <i>Status changed: when the status is changed, will send</i> <i>Status is True: when the status is true, will send</i> <i>Status is false: when status is false, will send</i> <i>Status changed and periodically: if the status is changed, will send the status periodically</i> <i>Status is True and periodically: if the status is true, will send the status periodically</i> <i>Status is false, will send the status periodically</i>
175	->Cycle time(1...255s)	1...(10)...255	<i>Set the parameter for cycle time</i>
176	<1>Logical A function 'Enable/disable' status	-Yes -(No)	<i>Yes: use logical A function 'Enable/disable' status</i> <i>No: do not use logical A function 'Enable/disable' status</i>
177	->Telegram via bus	-(Enable) -Disable	<i>Enable/disable for telegram via bus</i>
178	-->Operation mode	- ('1'-Enable, '0'-Disable) -'0'-Enable, '1'-Disable -'1/0'-Disable -'1/0'-Enable -'1'-Enable, '0'-Invalid -'0'-Enable, '1'-Invalid - '0'-Disable, '1'-Invalid -'1'-Disable, '0'-Invalid	<i>Set the parameter for operation mode</i>
179	->Dry contact 1	-Enable -(Disable)	<i>Enable/disable for dry contact 1</i>
180	Operation mode	- ('1'-Enable, '0'-Disable) -'0'-Enable, '1'-Disable -'1/0'-Disable -'1/0'-Enable -'1'-Enable, '0'-Invalid -'0'-Enable, '1'-Invalid - '0'-Disable, '1'-Invalid -'1'-Disable, '0'-Invalid	<i>Set the parameter for operation mode</i>
181	Logic A output status when logic function disabled	-Unchanged -True -False -True and immediately output -(False and immediately output)	<i>Set the parameter for logic A output status when logic function disabled</i> <i>Unchanged: when logic function disabled, logic A will output Unchanged status</i> <i>True: when logic function disabled, logic A will output</i>

			<p><i>True status</i> <i>False: when logic function disabled, logic A will output False status</i> <i>True and immediately output: when logic function disabled, logic A will output true status immediately</i> <i>False and immediately: when logic function disabled, logic A will output false status immediately</i></p>
182	->Logic A automatic enabled after logic function disabled	-Yes -(No)	<i>Enable/disable for logic A automatic enabled after logic function disabled</i>
183	-->> Delay time (0...17hours)	(0)...17	<i>Set the parameter for delay time</i>
184	-->>Delay time (0...59min)	(0)...59	<i>Set the parameter for delay time</i>
185	-->>Delay time (0...59sec)	0...(30)...59	<i>Set the parameter for delay time</i>
186	<2>Logical A function 'Enable/Disable' status control	All setting is same as <1>	<i>All setting is same as <1></i>
187	Logic A output status when logic function enabled	-{(True) -False -Current logic status}	<p><i>True: when logic function enabled, logic A will output True status</i> <i>False: when logic function enabled, logic A will output False status</i> <i>Current logic status: when logic function enabled, logic A will output current logic status</i></p>
188	Feedback logic A function enable/disable status	-Yes -(No)	<p><i>Yes: will feedback logic A function 'enable/disable' status</i> <i>No: will not feedback logic A function 'enable/disable' status</i></p>
4.1.1_Block A			

Device: 1.1.1 M/WS05.1

General	Object output 1 (to bus)	Switch controller
Function status	Object output 2 (to bus)	Invalid
! Logic function A	Object output 3 (to bus)	Invalid
Block A	Object output 4 (to bus)	Invalid
A1: Switching	Object output 5 (to bus)	Invalid
Logic function B	Object output 6 (to bus)	Invalid
Logic function C	Object output 7 (to bus)	Invalid
Logic function D	Object output 8 (to bus)	Invalid
Logic function E	Object output 9 (to bus)	Invalid
	Object output 10 (to bus)	Invalid
	Output repeat telegram on true	Disable

189	Object output 1-10 (to bus)	-Invalid -(Switch controller) -Absolute dimming controller -Shutter controller -Alarm controller -Percentage controller -Sequence controller -Scene controller -String (14bytes) controller -Threshold controller	Set the parameter for object output 1-10 to bus
190	Output repeat telegram on true	-Enable -(Disable)	Enable/disable for output repeat telegram on true
191	->Repeat time interval (0...59min)	0...(2)...59	Set the time for repeat time interval
192	->Repeat time interval (0...59sec)	(0)...59	Set the time for repeat time interval

4.1.1.1_A1:Switching

Device: 1.1.1 M/WS05.1

General	The status after bus voltage recovery	Invalid	
Function status	Logical block output when TRUE	ON	
! Logic function A	-> Delay time (0..17 Hours)	0	
Block A	-> Delay time (0..59 Minutes)	0	
A1: Switching	-> Delay time (0..59 Seconds)	0	
A2: Dimming	-> Change delay time via bus (0 s..17 h)	No	
A3: Shutter	Logical block output when FALSE	OFF	
A4: Alarm	-> Delay time (0..17 Hours)	0	
A5: Percentage	-> Delay time (0..59 Minutes)	0	
A6: Sequence	-> Delay time (0..59 Seconds)	10	
A7: Scene	-> Change delay time via bus (0 s..17 h)	No	
A8: String			
A9: Threshold			
Logic function B			
Logic function C			
Logic function D			
Logic function E			
193	The status after bus voltage recovery	-(Invalid) -On	Set the parameter for the status after bus voltage

		-Off -Recovery	<i>recovery</i>
194	Logic block output when TRUE	-Invalid -OFF -(ON) -Toggle	<i>Set the parameter for logic block output when TRUE</i>
195	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>
196	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>
197	->Delay time (0...59Sec)	(0)...59	<i>Set the parameter for delay time</i>
198	->Change delay time via bus (0s...17h)	-Yes -(No)	<i>Set the parameter for changing delay time via bus</i> <i>Yes: can change delay time via bus</i> <i>No: cannot change delay time via bus</i>
199	Logical block output when False	-Invalid -(OFF) -ON -Toggle	<i>Set the parameter for logic block output when False</i>
200	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>
201	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>
202	->Delay time (0...59Sec)	0...(10)...59	<i>Set the parameter for delay time</i>
203	->Change delay time via bus(0s...17h)	-Yes -(No)	<i>Set the parameter for changing delay time via bus</i> <i>Yes: can change delay time via bus</i> <i>No: cannot change delay time via bus</i>

4.1.1.2_A2: Dimming

The status after bus voltage recovery	Invalid
Logical block output when TRUE	100%(255)
-> Delay time (0..17 Hours)	0
-> Delay time (0..59 Minutes)	0
-> Delay time (0..59 Seconds)	0
-> Change delay time via bus (0 s..17 h)	No
Logical block output when FALSE	0%(0-OFF)
-> Delay time (0..17 Hours)	0
-> Delay time (0..59 Minutes)	0
-> Delay time (0..59 Seconds)	10
-> Change delay time via bus (0 s..17 h)	No

204	The status after bus voltage recovery	-Invalid -Recovery -Defined dimming	Set the parameter for the status after bus voltage recovery
205	->Recovery defined dimming	-(0%(0-OFF))...100%(255)	Set the parameter for recovery defined dimming
206	Logical block output when TRUE	-Invalid -0...(100%)	Set the parameter for logical block output when true
207	->Delay time (0...17 Hours)	(0)...17	Set the parameter for delay time
208	->Delay time (0...59Min)	(0)...59	Set the parameter for delay time
209	->Delay time (0...59Sec)	(0)...59	Set the parameter for delay time
210	->Change delay time via bus (0s..17h)	-Yes -(No)	Enable/disable for changing delay time via bus Yes: can change delay time via bus No: cannot change delay time via bus
211	Logic block output when False	-Invalid -(0)...100%	Set the parameter for logic block output when False
212	->Delay time (0...17 Hours)	(0)...17	Set the parameter for delay time
213	->Delay time (0...59Min)	(0)...59	Set the parameter for delay time
214	->Delay time (0...59Sec)	0...(10)...59	Set the parameter for delay time
215	->Change delay time via bus (0s..17h)	-Yes -(No)	Enable/disable for changing delay time via bus Yes: can change delay time via bus No: cannot change delay time via bus

4.1.1.3_A3:Shutter

Device: 1.1.1 M/WS05.1

General Function status Logic function A Block A A1: Switching A2: Dimming A3: Shutter A4: Alarm A5: Percentage A6: Sequence A7: Scene A8: String A9: Threshold Logic function B Logic function C Logic function D Logic function E	The status after bus voltage recovery: Invalid Logical block output when TRUE: Up -> Delay time (0..17 Hours): 0 -> Delay time (0..59 Minutes): 0 -> Delay time (0..59 Seconds): 0 -> Change delay time via bus (0 s..17 h): No Logical block output when FALSE: Down -> Delay time (0..17 Hours): 0 -> Delay time (0..59 Minutes): 0 -> Delay time (0..59 Seconds): 10 -> Change delay time via bus (0 s..17 h): No
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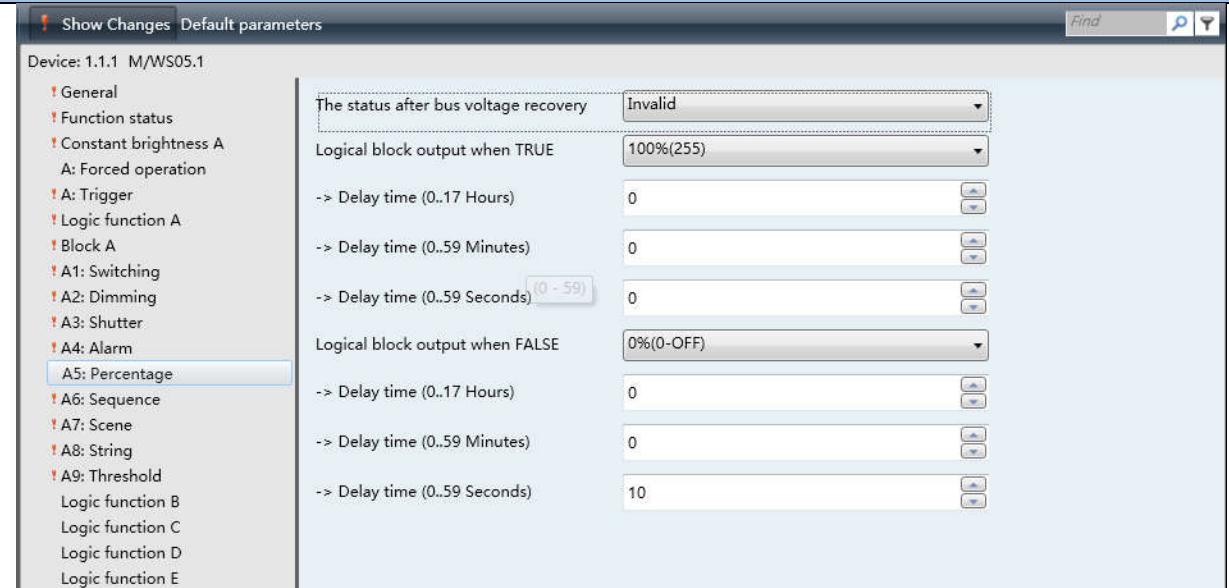
216	The status after bus voltage recovery	-Invalid -UP	Set the parameter for the status after bus voltage
-----	---------------------------------------	-----------------	--

		-Down -Recovery	recovery
217	Logical block output when TRUE	-Invalid -(Up) -Down -Toggle	Set the parameter for logic block output when TRUE
218	->Delay time (0...17 Hours)	(0)...17	Set the parameter for delay time
219	->Delay time (0...59Min)	(0)...59	Set the parameter for delay time
220	->Delay time (0...59Sec)	(0)...59	Set the parameter for delay time
221	->Change delay time via bus (0s..17h)	-Yes -(No)	Enable/disable for changing delay time via bus Yes: can change delay time via bus No: cannot change delay time via bus
222	Logical block output when FALSE	-Invalid -(Up) -Down -Toggle	Set the parameter for logical output when FALSE
223	->Delay time (0...17 Hours)	(0)...17	Set the parameter for delay time
224	->Delay time (0...59Min)	(0)...59	Set the parameter for delay time
225	->Delay time (0...59Sec)	0...(10)...59	Set the parameter for delay time
226	->Change delay time via bus (0s..17h)	-Yes -(No)	Enable/disable for changing delay time via bus Yes: can change delay time via bus No: cannot change delay time via bus

4.1.1.4_A4:Alarm

	Device: 1.1.1 M/WS05.1	
	General Function status ! Logic function A ! Block A ! A1: Switching ! A2: Dimming ! A3: Shutter A4: Alarm A5: Percentage A6: Sequence A7: Scene A8: String A9: Threshold Logic function B Logic function C Logic function D Logic function E	The status after bus voltage recovery Invalid Logical block output when TRUE Alarm -> Delay time (0..17 Hours) 0 -> Delay time (0..59 Minutes) 0 -> Delay time (0..59 Seconds) 0 Logical block output when FALSE No alarm -> Delay time (0..17 Hours) 0 -> Delay time (0..59 Minutes) 0 -> Delay time (0..59 Seconds) 10
227	The status after bus voltage recovery	-(Invalid) -No alarm -Alarm -Recovery
228	Logical block output when TRUE	Invalid

		- (Alarm) - No alarm - Toggle	<i>block output when TRUE</i>
229	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>
230	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>
231	->Delay time (0...59Sec)	(0)...59	<i>Set the parameter for delay time</i>
232	Logical block output when FALSE	- Invalid - Alarm - (No alarm) - Toggle	<i>Set the parameter for delay time</i>
233	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>
234	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>
235	->Delay time (0...59Sec)	0...(10)...59	<i>Set the parameter for delay time</i>

4.1.1.5_A5:Percentage

236	The status after bus voltage recovery	- (Invalid) - Recovery - Defined percentage	<i>Set the parameter for the status after bus voltage recovery</i>
237	->Recovery defined percentage	- (0% (0-OFF))...100(255)	<i>Set the parameter for recovery defined percentage</i>
238	Logical block output when TRUE	- Invalid - 0% (0-OFF)...(100% (255))	<i>Set the parameter for logical block output when TRUE</i>
239	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>
240	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>
241	->Delay time (0...59Sec)	(0)...59	<i>Set the parameter for delay time</i>
242	Logical block output when FALSE	- Invalid - (0% (0-OFF))...100(255)	<i>Set the parameter for logical block output when FALSE</i>
243	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>
244	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>

			<i>time</i>				
245	->Delay time (0...59Sec)	0...(10)...59	<i>Set the parameter for delay time</i>				
4.1.1.6_A6:Sequence							
<p>Device: 1.1.1 M/WS05.1</p> <table border="1"> <tr> <td style="vertical-align: top;"> General Function status ! Logic function A ! Block A ! A1: Switching ! A2: Dimming ! A3: Shutter ! A4: Alarm A5: Percentage A6: Sequence A7: Scene A8: String A9: Threshold Logic function B Logic function C Logic function D Logic function E </td> <td style="vertical-align: top;"> The status after bus voltage recovery Logical block output when TRUE -> Delay time (0..17 Hours) -> Delay time (0..59 Minutes) -> Delay time (0..59 Seconds) Logical block output when FALSE -> Delay time (0..17 Hours) -> Delay time (0..59 Minutes) -> Delay time (0..59 Seconds) </td> <td style="vertical-align: top;"> <input type="button" value="Invalid"/> <input type="button" value="Start"/> <input type="button" value="0"/> <input type="button" value="0"/> <input type="button" value="0"/> <input type="button" value="Stop"/> <input type="button" value="0"/> <input type="button" value="0"/> <input type="button" value="10"/> </td> <td style="vertical-align: top;"> <i>time</i> <i>Set the parameter for delay time</i> <i>Set the parameter for delay time</i> </td> </tr> </table>				General Function status ! Logic function A ! Block A ! A1: Switching ! A2: Dimming ! A3: Shutter ! A4: Alarm A5: Percentage A6: Sequence A7: Scene A8: String A9: Threshold Logic function B Logic function C Logic function D Logic function E	The status after bus voltage recovery Logical block output when TRUE -> Delay time (0..17 Hours) -> Delay time (0..59 Minutes) -> Delay time (0..59 Seconds) Logical block output when FALSE -> Delay time (0..17 Hours) -> Delay time (0..59 Minutes) -> Delay time (0..59 Seconds)	<input type="button" value="Invalid"/> <input type="button" value="Start"/> <input type="button" value="0"/> <input type="button" value="0"/> <input type="button" value="0"/> <input type="button" value="Stop"/> <input type="button" value="0"/> <input type="button" value="0"/> <input type="button" value="10"/>	<i>time</i> <i>Set the parameter for delay time</i> <i>Set the parameter for delay time</i>
General Function status ! Logic function A ! Block A ! A1: Switching ! A2: Dimming ! A3: Shutter ! A4: Alarm A5: Percentage A6: Sequence A7: Scene A8: String A9: Threshold Logic function B Logic function C Logic function D Logic function E	The status after bus voltage recovery Logical block output when TRUE -> Delay time (0..17 Hours) -> Delay time (0..59 Minutes) -> Delay time (0..59 Seconds) Logical block output when FALSE -> Delay time (0..17 Hours) -> Delay time (0..59 Minutes) -> Delay time (0..59 Seconds)	<input type="button" value="Invalid"/> <input type="button" value="Start"/> <input type="button" value="0"/> <input type="button" value="0"/> <input type="button" value="0"/> <input type="button" value="Stop"/> <input type="button" value="0"/> <input type="button" value="0"/> <input type="button" value="10"/>	<i>time</i> <i>Set the parameter for delay time</i> <i>Set the parameter for delay time</i>				
246	The status after bus voltage recovery	-{(Invalid) -Stop -Start -Recovery}	<i>Set the parameter for the status after bus voltage recovery</i>				
247	Logical block output when TRUE	-Invalid -Stop -(Start) -Toggle	<i>Set the parameter for logical block output when TRUE</i>				
248	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>				
249	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>				
250	->Delay time (0...59Sec)	(0)...59	<i>Set the parameter for delay time</i>				
251	Logical block output when FALSE	-Invalid -(Stop) -Start -Recovery	<i>Set the parameter for logical block output when FALSE</i>				
252	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>				
253	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>				
254	->Delay time (0...59Sec)	0...(10)...59	<i>Set the parameter for delay time</i>				
4.1.1.7_A7:Scene							

<p>Device: 1.1.1 M/WS05.1</p> <p>General Function status ! Logic function A ! Block A ! A1: Switching ! A2: Dimming ! A3: Shutter ! A4: Alarm ! A5: Percentage ! A6: Sequence A7: Scene A8: String A9: Threshold Logic function B Logic function C Logic function D Logic function E</p> <table border="1"> <tr> <td>The status after bus voltage recovery</td><td>Invalid</td></tr> <tr> <td>Logical block output when TRUE</td><td>Scene NO.01</td></tr> <tr> <td>-> Delay time (0..17 Hours)</td><td>0</td></tr> <tr> <td>-> Delay time (0..59 Minutes)</td><td>0</td></tr> <tr> <td>-> Delay time (0..59 Seconds)</td><td>0</td></tr> <tr> <td>Logical block output when FALSE</td><td>Scene NO.02</td></tr> <tr> <td>-> Delay time (0..17 Hours)</td><td>0</td></tr> <tr> <td>-> Delay time (0..59 Minutes)</td><td>0</td></tr> <tr> <td>-> Delay time (0..59 Seconds)</td><td>10</td></tr> </table>				The status after bus voltage recovery	Invalid	Logical block output when TRUE	Scene NO.01	-> Delay time (0..17 Hours)	0	-> Delay time (0..59 Minutes)	0	-> Delay time (0..59 Seconds)	0	Logical block output when FALSE	Scene NO.02	-> Delay time (0..17 Hours)	0	-> Delay time (0..59 Minutes)	0	-> Delay time (0..59 Seconds)	10
The status after bus voltage recovery	Invalid																				
Logical block output when TRUE	Scene NO.01																				
-> Delay time (0..17 Hours)	0																				
-> Delay time (0..59 Minutes)	0																				
-> Delay time (0..59 Seconds)	0																				
Logical block output when FALSE	Scene NO.02																				
-> Delay time (0..17 Hours)	0																				
-> Delay time (0..59 Minutes)	0																				
-> Delay time (0..59 Seconds)	10																				
255	The status after bus voltage recovery	- (Invalid) - Recovery - Defined scene	<i>Set the parameter for the status after bus voltage recovery: after bus voltage recovery, the status will be recovery</i>																		
256	Recovery defined scene NO.	-(Scene NO.01)...Scene NO.64	<i>Set the parameter for recovery defined scene NO.</i>																		
257	Logical block output when TRUE	-(Scene NO.01)...Scene NO.64	<i>Set the parameter for logical block output when TRUE</i>																		
258	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>																		
259	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>																		
260	->Delay time (0...59Sec)	(0)...59	<i>Set the parameter for delay time</i>																		
261	Logical block output when FALSE	-Scene NO.01...(NO.02)...NO.64	<i>Set the parameter for logical block output when FALSE</i>																		
262	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>																		
263	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>																		
264	->Delay time (0...59Sec)	0...(10)...59	<i>Set the parameter for delay time</i>																		

4.1.1.8_A8: String

Device: 1.1.1 M/WS05.1

General	The status after bus voltage recovery	Invalid
Function status	TRUE is valid?	Yes
Logic function A	Logical block output when TRUE (14 Byte)	Hello world!
Block A	-> Delay time (0..17 Hours)	0
A1: Switching	-> Delay time (0..59 Minutes)	0
A2: Dimming	-> Delay time (0..59 Seconds)	0
A3: Shutter	FALSE is valid?	Yes
A4: Alarm	Logical block output when FALSE (14 Byte)	Hello world!
A5: Percentage	-> Delay time (0..17 Hours)	0
A6: Sequence	-> Delay time (0..59 Minutes)	0
A7: Scene	-> Delay time (0..59 Seconds)	10
A8: String		
A9: Threshold		
Logic function B		
Logic function C		
Logic function D		
Logic function E		

No.	ETS-Parameter	Range (default)	Description
265	The status after bus voltage recovery	-Invalid -Defined string	<i>Set the parameter for the status after bus voltage recovery</i>
266	Recovery defined string (14 Byte)	Hello world!	<i>Set the parameter for recovery defined string (14 Byte)</i>
267	True is valid?	-yes -No	<i>Enable/disable for true is valid</i> <i>Yes: true is valid</i> <i>False: true is invalid</i>
268	Logical block output when TRUE (14 byte)	Hello world!	<i>Set the parameter for logical block output when TRUE(14 byte)</i>
269	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>
270	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>
271	->Delay time (0...59Sec)	(0)...59	<i>Set the parameter for delay time</i>
272	FALSE is valid?	-yes -No	<i>Enable/disable for FALSE is valid</i> <i>Yes: FALSE is valid</i> <i>No:FALSE is invalid</i>
273	Logical block output when FALSE (14 byte)	Hello world!	<i>Set the parameter for logical block output when FALSE (14 byte)</i>
274	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>
275	->Delay time (0...59Min)	(0)...59	<i>Set the parameter for delay time</i>
276	->Delay time (0...59Sec)	0...(10)...59	<i>Set the parameter for delay time</i>
4.1.1.9_A9: Threshold			

<p>Device: 1.1.1 M/WS05.1</p> <p>General Function status ! Logic function A ! Block A ! A1: Switching ! A2: Dimming ! A3: Shutter ! A4: Alarm ! A5: Percentage ! A6: Sequence ! A7: Scene ! A8: String A9: Threshold Logic function B Logic function C Logic function D Logic function E</p> <table border="1"> <tr> <td>Threshold control type</td><td>1byte threshold</td></tr> <tr> <td>The status after bus voltage recovery</td><td>Invalid</td></tr> <tr> <td>TRUE is valid?</td><td>Yes</td></tr> <tr> <td>Logical block output when TRUE (0..255)</td><td>255</td></tr> <tr> <td>-> Delay time (0..17 Hours)</td><td>0</td></tr> <tr> <td>-> Delay time (0..59 Minutes)</td><td>0</td></tr> <tr> <td>-> Delay time (0..59 Seconds)</td><td>0</td></tr> <tr> <td>FALSE is valid?</td><td>Yes</td></tr> <tr> <td>Logical block output when FALSE (0..255)</td><td>0</td></tr> <tr> <td>-> Delay time (0..17 Hours)</td><td>0</td></tr> <tr> <td>-> Delay time (0..59 Minutes)</td><td>0</td></tr> <tr> <td>-> Delay time (0..59 Seconds)</td><td>10</td></tr> </table>				Threshold control type	1byte threshold	The status after bus voltage recovery	Invalid	TRUE is valid?	Yes	Logical block output when TRUE (0..255)	255	-> Delay time (0..17 Hours)	0	-> Delay time (0..59 Minutes)	0	-> Delay time (0..59 Seconds)	0	FALSE is valid?	Yes	Logical block output when FALSE (0..255)	0	-> Delay time (0..17 Hours)	0	-> Delay time (0..59 Minutes)	0	-> Delay time (0..59 Seconds)	10
Threshold control type	1byte threshold																										
The status after bus voltage recovery	Invalid																										
TRUE is valid?	Yes																										
Logical block output when TRUE (0..255)	255																										
-> Delay time (0..17 Hours)	0																										
-> Delay time (0..59 Minutes)	0																										
-> Delay time (0..59 Seconds)	0																										
FALSE is valid?	Yes																										
Logical block output when FALSE (0..255)	0																										
-> Delay time (0..17 Hours)	0																										
-> Delay time (0..59 Minutes)	0																										
-> Delay time (0..59 Seconds)	10																										
277	Threshold control type	-(1 byte threshold) -2 byte threshold	<i>Set the parameter for threshold control type</i>																								
278	The status after bus voltage recovery	-(Invalid) -Recovery -Defined threshold	<i>Set the parameter for the status after bus voltage recovery</i>																								
279	Recovery defined threshold(0..255)	0...(1)...255	<i>Set the parameter for recovery defined threshold</i>																								
280	Recovery defined threshold(0...65535)	(0)...65535	<i>Set the parameter for recovery defined threshold</i>																								
281	TRUE is valid?	-(Yes) -No	<i>Set the parameter for true is valid</i> <i>Yes: TRUE is valid</i> <i>No: TRUE is invalid</i>																								
282	Logical block output when TRUE(0...255)	0...(255)	<i>Set the parameter for logical block output when TRUE(0...255)</i>																								
283	Logical block output when TRUE (0...65535)	0...(1000)...65535	<i>Set the parameter for logical block output when TRUE (0...65535)</i>																								
284	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>																								
285	->Delay time (0..59Min)	(0)...59	<i>Set the parameter for delay time</i>																								
286	->Delay time (0..59Sec)	(0)...59	<i>Set the parameter for delay time</i>																								
287	FALSE is valid?	-(Yes) -No	<i>Set the parameter for false is valid</i> <i>Yes: FALSE is valid</i> <i>No: FALSE is invalid</i>																								
288	Logical block output when FALSE (0...255)	(0)...255	<i>Set the parameter for logical block output when FALSE</i>																								
289	Logical block output when FALSE (0...65535)	(0)...65535	<i>Set the parameter for logical lock output when FALSE</i>																								
290	->Delay time (0...17 Hours)	(0)...17	<i>Set the parameter for delay time</i>																								

291	->Delay time (0...59Min)	(0)...59	Set the parameter for delay time
292	->Delay time (0...59Sec)	0...(10)...59	Set the parameter for delay time

XX

D. Communication Objects (A-E's setting is same, here, take A as an example)

D. 0 General

Objects 'General'				
NO.	Objectname	Function	Flags	Data type
0	General	Heartbeat telegram	1 bit C - - T -	
1	General	Microwave sensor sensitivity	1 Byte C R W T -	
2	General	Led indicator status	1 bit C R W T -	
This communication object is 'Heartbeat telegram'. When set '0', will send the telegram value '0' cyclically , when set '1', will send the telegram value '1' cyclically; when set '0/1', will send the telegram value '0/1' cyclically				
1	General	Microwave sensor sensitivity	C R W T	DPT 5.001 1 byte
This communication object is used to set the microwave sensor sensitivity				
2	General	LED indicator status	C R W T	DPT1.001 1bit
This communication object is used to set the led indicator status				

D. 1 Function status

Objects 'Function status'				
NO.	Objectname	Function	Flags	Data type
3	Function status	Microwave status to bus	1 bit C - W T	
5	Function status	Brightness(Lux) value	2 Byte C R - T	
6	Function status	Temperature value	2 Byte C R - T	
7	Function status	Humidity value	2 Byte C R - T	
8	Function status	Dry contact 1 status	1 bit C R - T	
9	Function status	Dry contact 2 status	1 bit C R - T	
This communication object is used to set the microwave status to bus				
5	Function status	Brightness (Lux) value	C R T	DPT 9.004 2 byte
6	Function status	Temperature value	C R T	DPT9.001 2 byte
7	Function status	Humidy value	C R T	DPT9.007 2 byte
These communication objects are used to set the brightness/temperature/humidity value				
8	Function status	Dry contact 1 status	C R T	DPT1.001 1 bit

9	Function status	Dry contact 2 status	C R T	DPT1.001 1 bit
These communication objects are used to set the dry contact 1/2 status				

Objects 'Lux threshold'				
11	Object input A	Lux threshold A lower(0~15K)	2 Byte	C R W T U
12	Object input A	Lux threshold A upper(0~15K)	2 Byte	C R W T U
13	Object input A	Lux threshold A Independent	1 bit	C R W T U
14	Object input A	Lux threshold B Independent	1 bit	C R W T U
15	Object input A	Lux threshold C Independent	1 bit	C R W T U
NO.	Objectname	Function	Flags	Data type
11	Output input A	Lux threshold A lower (0~15K)	C R W T U	DPT9.004 2 byte
12	Output input A	Lux threshold A upper (0~15K)	C R W T U	DPT9.004 2 byte
These communication objects are used to set the lux threshold A lower (0~15K)				
13	Output input A	Lux threshold A independent	C R W T U	DPT1.003 1bit
14	Output input A	Lux threshold B independent	C R W T U	DPT1.003 1bit
15	Output input A	Lux threshold C independent	C R W T U	DPT1.003 1bit
These communication objects are used for lux threshold A/B/C independent				

Objects 'Temperature threshold'				
16	Object input A	Temperature threshold lower	2 Byte	C R W T
17	Object input A	Temperature threshold upper	2 Byte	C R W T
NO.	Objectname	Function	Flags	Data type
16	Object input A	Temperature threshold lower	C R W T	DPT 9.001 2 byte
17	Object input A	Temperature threshold upper	C R W T	DPT 9.001 2 byte
These communication objects are used to set the temperature threshold				

Objects 'Humidity threshold'				
18	Object input A	Humidity threshold lower	2 Byte	C R W T
19	Object input A	Humidity threshold upper	2 Byte	C R W T
NO.	Objectname	Function	Flags	Data type
18	Object input A	Humidity threshold lower	C R W T	DPT 9.007 2 byte

19	Object input A	Humidity threshold upper	C R W T	DPT 9.007 2 byte
These communication objects are used to set the humidity threshold lower and upper				

Objects 'External telegram'				
NO.	Objectname	Function	Flags	Data type
20	Object input A	External telegram 1 (1bit)	1 bit	C - W - U
21	Object input A	External telegram 2 (1byte)	1 Byte	C - W - U
NO.	Objectname	Function	Flags	Data type
20	Object input A	External telegram 1 (1bit)	C W U	DPT 1.001 1 byte
20	Object input A	External telegram 1 (1 byte)	C W U	DPT 5.004 1byte
20	Object input A	External telegram 1 (2 bytes)	C W U	DPT7.001 2bytes
20	Object input A	External telegram 1 (float)	C W U	DPT9.001 2bytes
20	Object input A	External telegram 1 (4bytes)	C W U	DPT12.001 4bytes
21	Object input A	External telegram 2 (1bit)	C W U	DPT 1.001 1 byte
21	Object input A	External telegram 2 (1 byte)	C W U	DPT 5.004 1byte
21	Object input A	External telegram 2 (2 bytes)	C W U	DPT7.001 2bytes
21	Object input A	External telegram 2 (float)	C W U	DPT9.001 2bytes
21	Object input A	External telegram 2 (4bytes)	C W U	DPT12.001 4bytes
These communication objects are used to set the external telegram 1/2				

Objects 'Object output'				
NO.	Objectname	Function	Flags	Data type
30	Object output A1 Switching		1 bit	C R - T
31	Object output A2 Absolute Dimming		1 Byte	C R - T
32	Object output A3 Shutter		1 bit	C R - T
33	Object output A4 Alarm		1 bit	C R - T
34	Object output A5 Percentage		1 Byte	C R - T
35	Object output A6 Sequence		1 bit	C R - T
36	Object output A7 Scene		1 Byte	C R - T
37	Object output A8 String (14 Byte)		14 Byte	C R - T
38	Object output A9 Threshold (0..65535)		2 Byte	C R - T
NO.	Objectname	Function	Flags	Data type
30	Object output A1	Switching	C R T	DPT1.001 1bit
31	Object output A2	Absolute Dimming	C R T	DPT5.001 1byte
32	Object output A3	Shutter	C R T	DPT1.008 1bit

33	Object output A4	Alarm	C R T	DPT1.005 1bit
34	Object output A5	Percentage	C R T	DPT5.001 1byte
35	Object output A6	Sequence	C R T	DPT1.010 1bit
36	Object output A7	Scene	C R T	DPT17.001 1byte
37	Object output A8	String (14 Byte)	C R T	DPT16.000 14byte
38	Object output A9	Threshold (0...65535)	C R T	DPT7.001 2byte
38	Object output A9	Threshold (0...255)	C R T	DPT5.004 1byte

These communication objects are used to set the object output, you can set the switching/dimming/shutter/alarm/percentage/sequence/scene/string/threshold

Objects 'object input'					
NO.	Objectname	Function	Flags	Data type	
40	Object input A1	Switching delay time on TRUE	2 Byte	C R W	T -
41	Object input A1	Switching delay time on FALSE	2 Byte	C R W	T -
42	Object input A2	Dimming delay time on TRUE	2 Byte	C R W	T -
43	Object input A2	Dimming delay time on FALSE	2 Byte	C R W	T -
44	Object input A3	Shutter delay time on TRUE	2 Byte	C R W	T -
45	Object input A3	Shutter delay time on FALSE	2 Byte	C R W	T -
NO.	Objectname	Function	Flags	Data type	
40	Object input A1	Switching delay time on TRUE	CWRT	DPT7.005 2byte	
40	Object input A1	Switching delay time on FALSE	CWRT	DPT7.005 2byte	

These communication objects are used to change delay time via bus, you can set the switching, dimming, shutter, alarm, percentage, sequence, scene, string, threshold delay time on TRUE or FALSE

Objects 'Logic A'					
NO.	Objectname	Function	Flags	Data type	
46	Logic A status	'1'-True/'0'-False	1 bit	C R	- T
47	<1>Logic A funct	Disable/Enable logic function	1 bit	C R	W T
48	<2>Logic A funct	Disable/Enable logic function	1 bit	C R	W T
49	Logic A function	Disable/Enable status feedback	1 bit	C R	W T

NO.	Object name	Function	Flags	Data type
46	Logic A status	'1'-True/'0'-False	C R T	DPT 1.002 1bit
47	<1>Logic A function	Disable/Enable logic function	C R W T	DPT 1.003 1 bit
48	<2>Logic A function	Disable/Enable logic function	C R W T	DPT 1.003 1 bit
49	Logic A function	Disable/Enable status feedback	C R W T	DPT 1.003 1 bit
These communication objects are used to set the logic A				

Objects 'Extend contact'				
NO.	Objectname	Function	Flags	Data type
200	Extend contact 1 short	Switching(Toggle)	1 bit	C R W T
201	Extend contact 1 long	Switching(ON)	1 bit	C R W T
203	Extend contact 2 short	Switching(Toggle)	1 bit	C R W T
204	Extend contact 2 long	Dimming	4 bit	C R W T
NO.	Objectname	Function	Flags	Data type
200	Extend contact 1	Switching	C R W T	DPT 1.001 1bit
200	Extend contact 1	Dimming	C R W T	DPT3.007 4bit
200	Extend contact 1	Call scene	C R W T	DPT17.001 1byte
200	Extend contact 1	Percentage	C R W T	DPT5.001 1byte
200	Extend contact 1 short	Switching(Toggle)	C R W T	DPT1.001 1bit
200	Extend contact 1 short	Switching (ON)	C R W T	DPT1.001 1bit
200	Extend contact 1 short	Switching (OFF)	C R W T	DPT1.001 1bit
200	Extend contact 1 short/long scene save	Call scene	C R W T	DPT18.001 1byte
200	Extend dry contact 1 short/long	Percentage	C R W T	DPT5.001 1byte
200	Extend dry contact 1	LED status	C R W T	DPT1.001 1bit
201	Extend contact 1 long	Switching(Toggle)	C R W T	DPT1.001 1bit
201	Extend contact 1 long	Switching (ON)	C R W T	DPT1.001 1bit
201	Extend contact 1 long	Switching (OFF)	C R W T	DPT1.001 1bit
201	Extend contact 1 long	Dimming	C R W T	DPT3.007 4bit
201	Extend contact 1 long	Scene dimming	C R W T	DPT3.007 4bit
These communication objects are extend contact, according to the short/long, set the switching, scene, percentage and LED status				

Objects 'Constant brightness A'						
NO.	Objectname	Function	Flags	Data type		
210	Constant brightness A	'1'-Start/'0'-Stop	C W T U	1 bit	C	R
		Dimming output value(0%..100%)		1 Byte	C	R
211	Constant brightness A	External Lux telegram(0~15K)	C R W T	2 Byte	C	R
212	Constant brightness A	Constant bri.. Lux (0~15K)	C R W T	2 Byte	C	R
213	Constant brightness A				T	U
These communication objects are used to set the constant brightness A						

Objects 'Forced operation'						
NO.	Objectname	Function	Flags	Data type		
214	Forced Opteration A1	'1'-Start/'0'-Stop	C W T	1 bit	C	-
		'0'-Start/'1'-Stop		1 bit	C	-
		'1/0' –Start		1 bit	C	-
		'0/1' –Stop		1 bit	C	-
215	Forced operation A2	'1'-Start/'0'-Stop	C W T	DPT 1.010		
		'0'-Start/'1'-Stop		1 bit		
		'1/0' –Start		DPT 1.010		
		'0/1' –Stop		1 bit		
216	Forced operation A3	'1'-Start/'0'-Stop	C W T	DPT 1.010		
		'0'-Start/'1'-Stop		1 bit		
		'1/0' –Start		DPT 1.010		
		'0/1' –Stop		1 bit		
217	Forced operation A4	'1'-Start/'0'-Stop	C W T	DPT 1.010		
		'0'-Start/'1'-Stop		1 bit		
		'1/0' –Start		DPT 1.010		
		'0/1' –Stop		1 bit		
These communication objects are used to set the forced operation A1-A4						

Objects 'Forced operation dimming'

218	Forced operation dimm Change dimming value(0..100)	1 Byte	C R W T U	
219	Forced operation dimm Change dimming value(0..100)	1 Byte	C R W T U	
220	Forced operation dimm Change dimming value(0..100)	1 Byte	C R W T U	
221	Forced operation dimm Change dimming value(0..100)	1 Byte	C R W T U	
NO.	Objectname	Function	Flags	Data type
218	Forced operation dimming A1	Change dimming value (0...100%)	C R W T U	DPT 5.001 1 byte
219	Forced operation dimming A2	Change dimming value (0...100%)	C R W T U	DPT 5.001 1 byte
220	Forced operation dimming A3	Change dimming value (0...100%)	C R W T U	DPT 5.001 1 byte
221	Forced operation dimming A4	Change dimming value (0...100%)	C R W T U	DPT 5.001 1 byte
These communication objects are forced operation dimming, used to changed the dimming value				

Objects 'Constant brightness A Trigger'				
222	Constant brightness A Trigger 1	'1'/'0'-trigger	1 bit	C R W T -
223	Constant brightness A Trigger 2	'1'/'0'-trigger	1 bit	C R W T -
224	Constant brightness A Trigger 3	'1'/'0'-trigger	1 bit	C R W T -
NO.	Object name	Function	Flags	Data type
222	Constant brightness A Trigger 1	'1/0' -trigger	C R W T	DPT1.017 1bit
223	Constant brightness A Trigger 2	'1/0' -trigger	C R W T	DPT1.017 1bit
224	Constant brightness A Trigger 3	'1/0' -trigger	C R W T	DPT1.017 1bit
These communication objects are constant brightness A trigger, if send '1/0',will trigger				

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