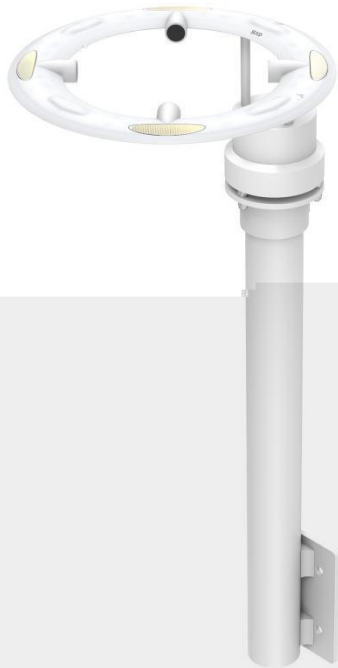
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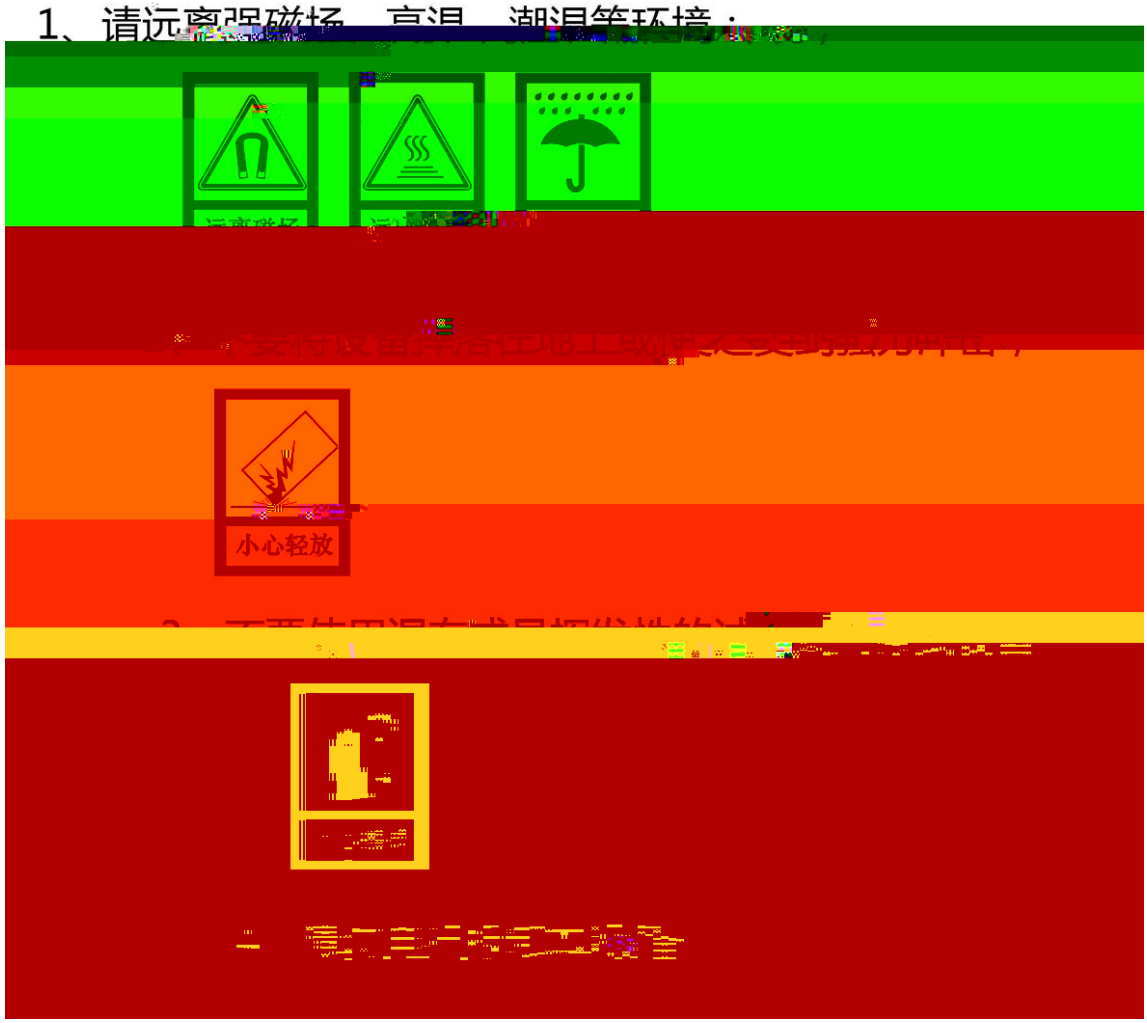
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注意事项

1、请远离强磁场、高温、潮湿等环境；



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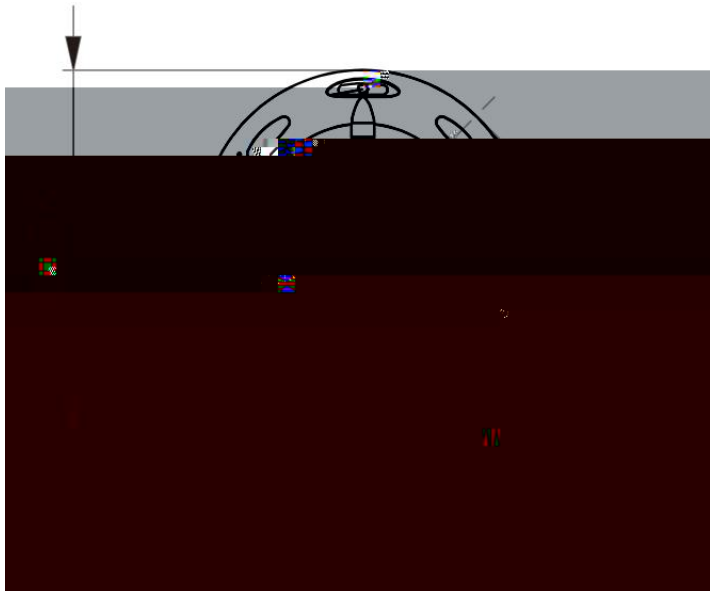
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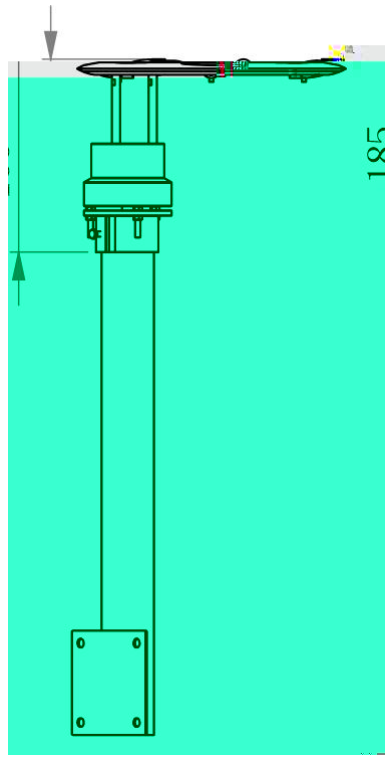
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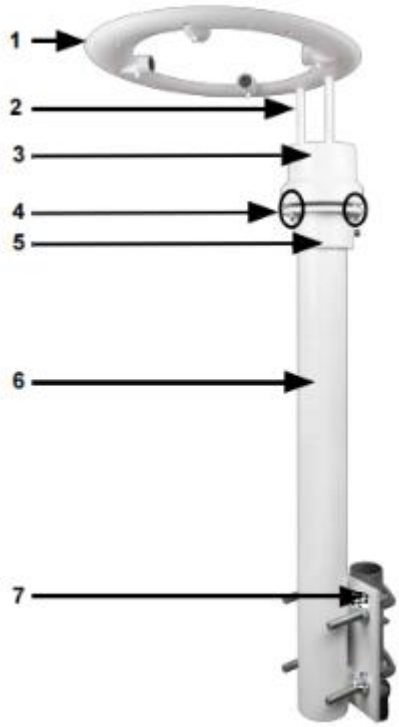
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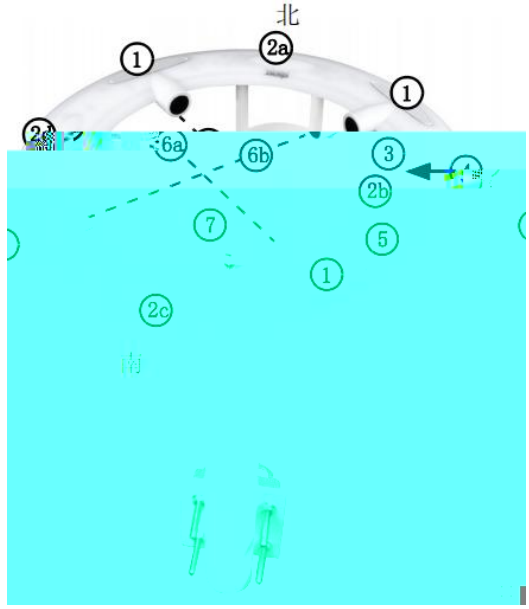
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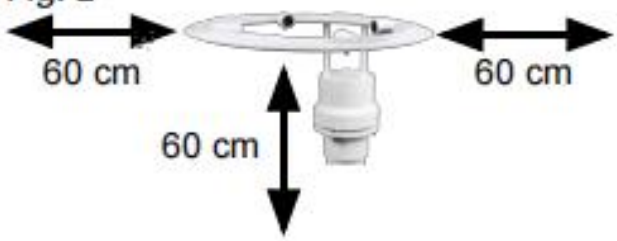
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Fig. 4

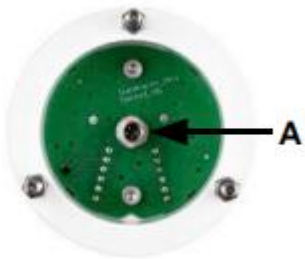


Fig. 5a



Fig. 5b



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Fig. 6

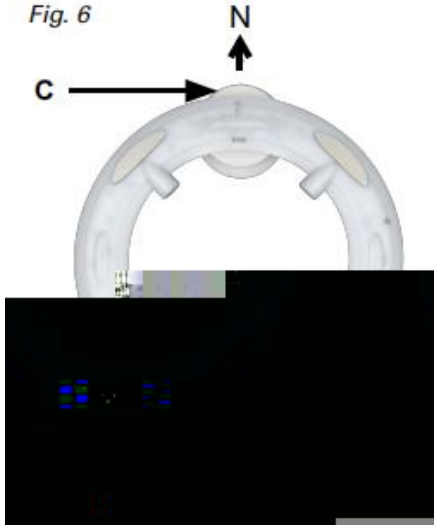


Fig. 7

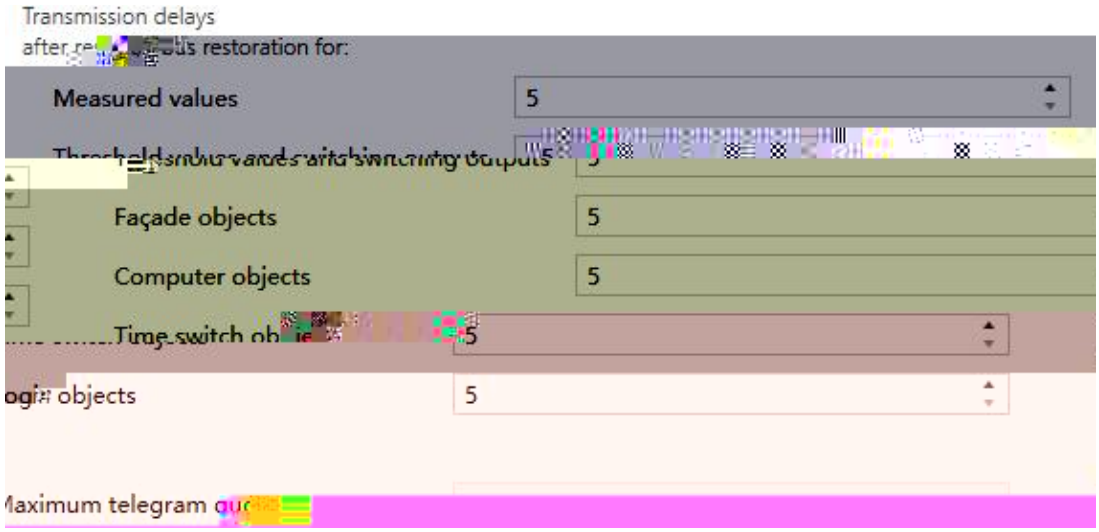


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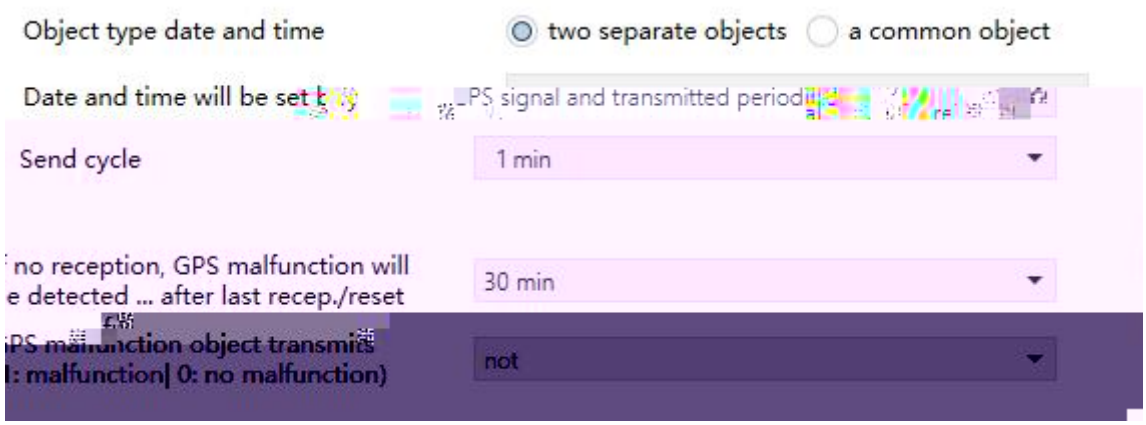
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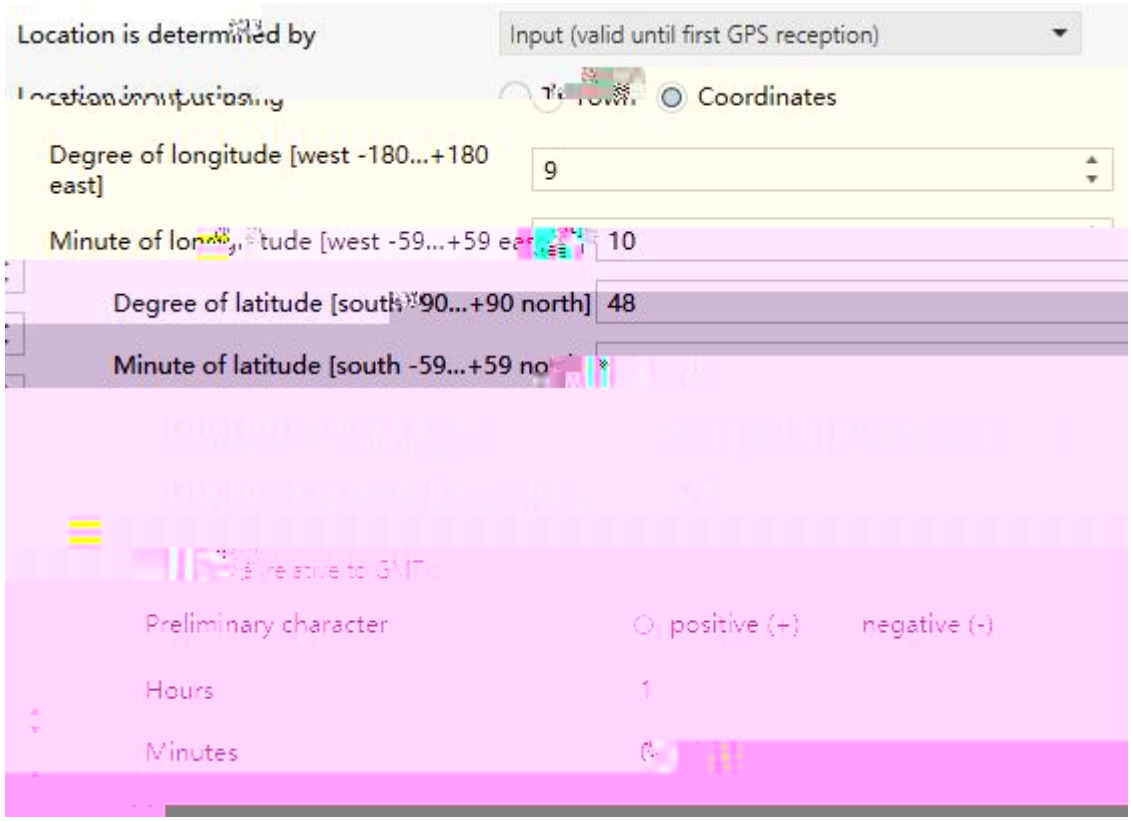
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Location is determined by
Input (valid until first GPS reception)
Coordinates
Degree of longitude [west -180...+180 east]
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10
Degree of latitude [south -90...+90 north]
48
Preliminary character
positive (+)
negative (-)
Hours
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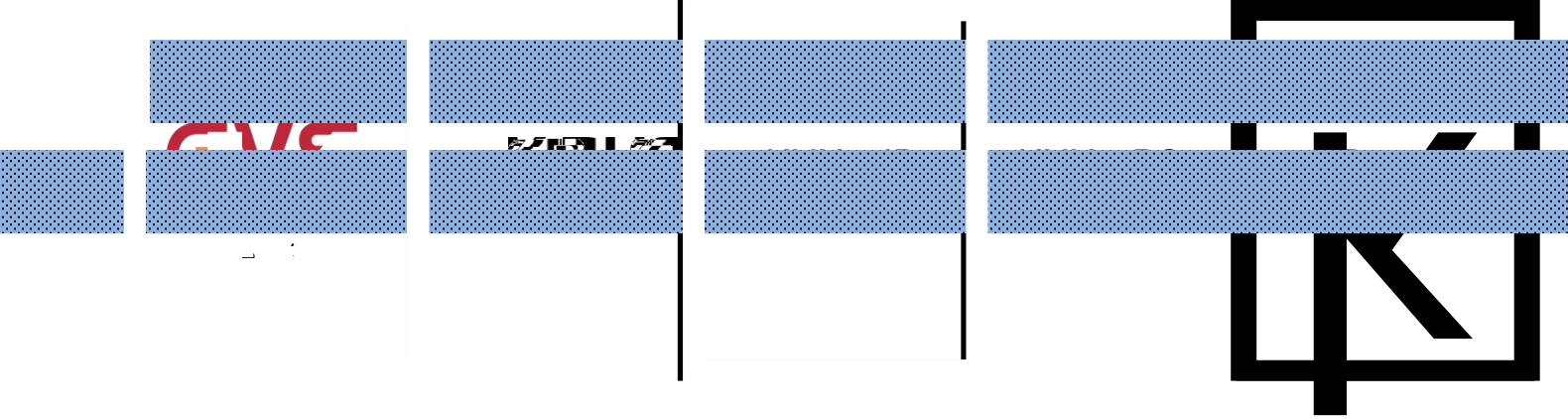
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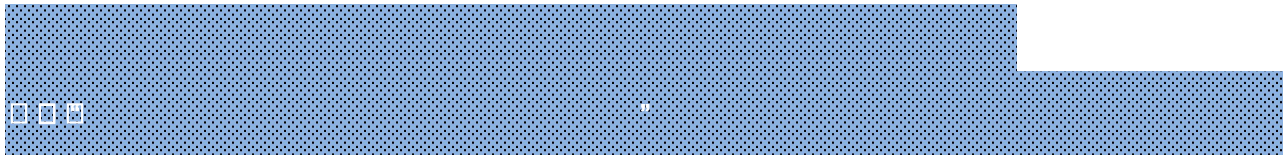
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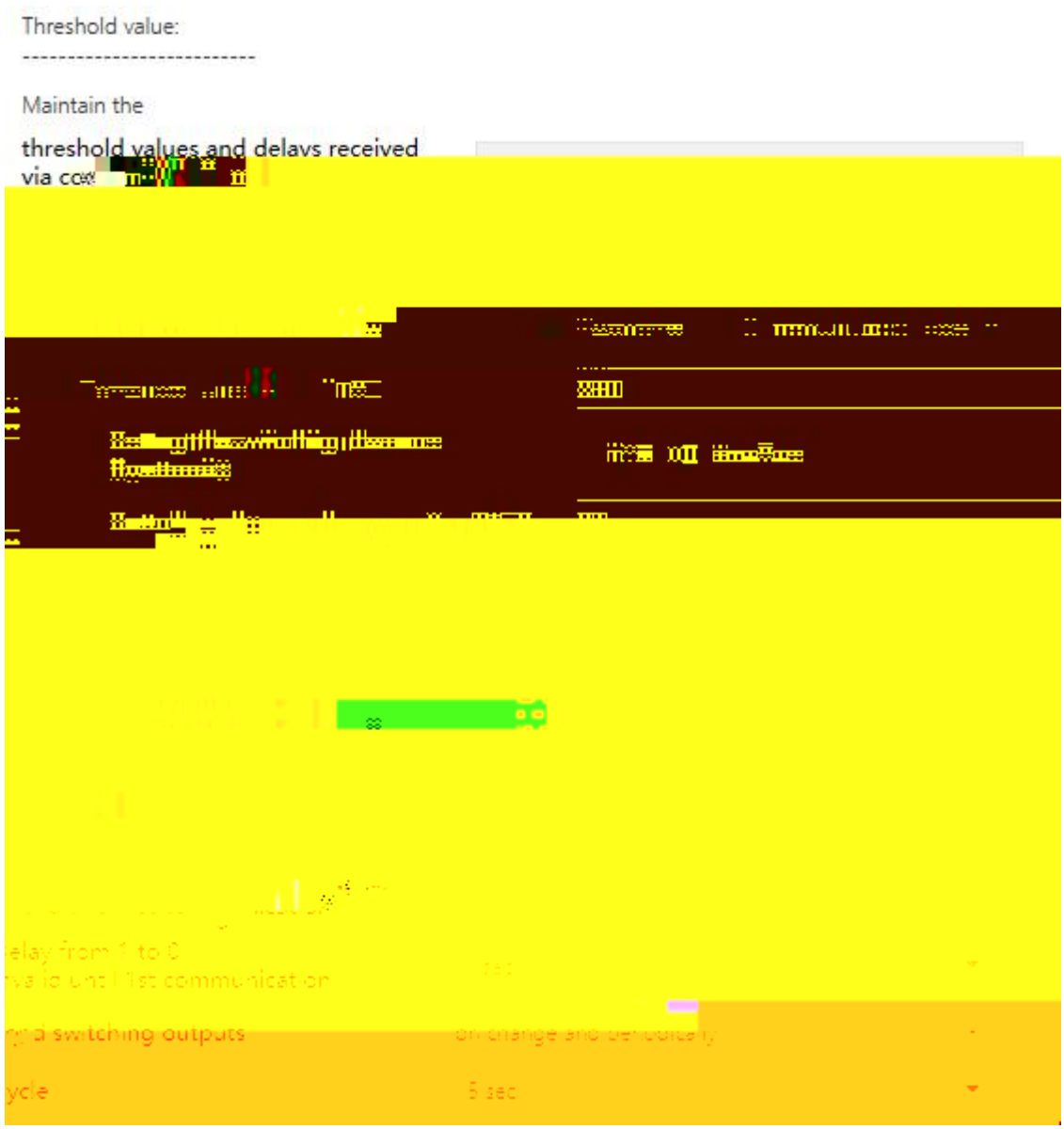
4.6 □□□□□ “Temperature threshold value”

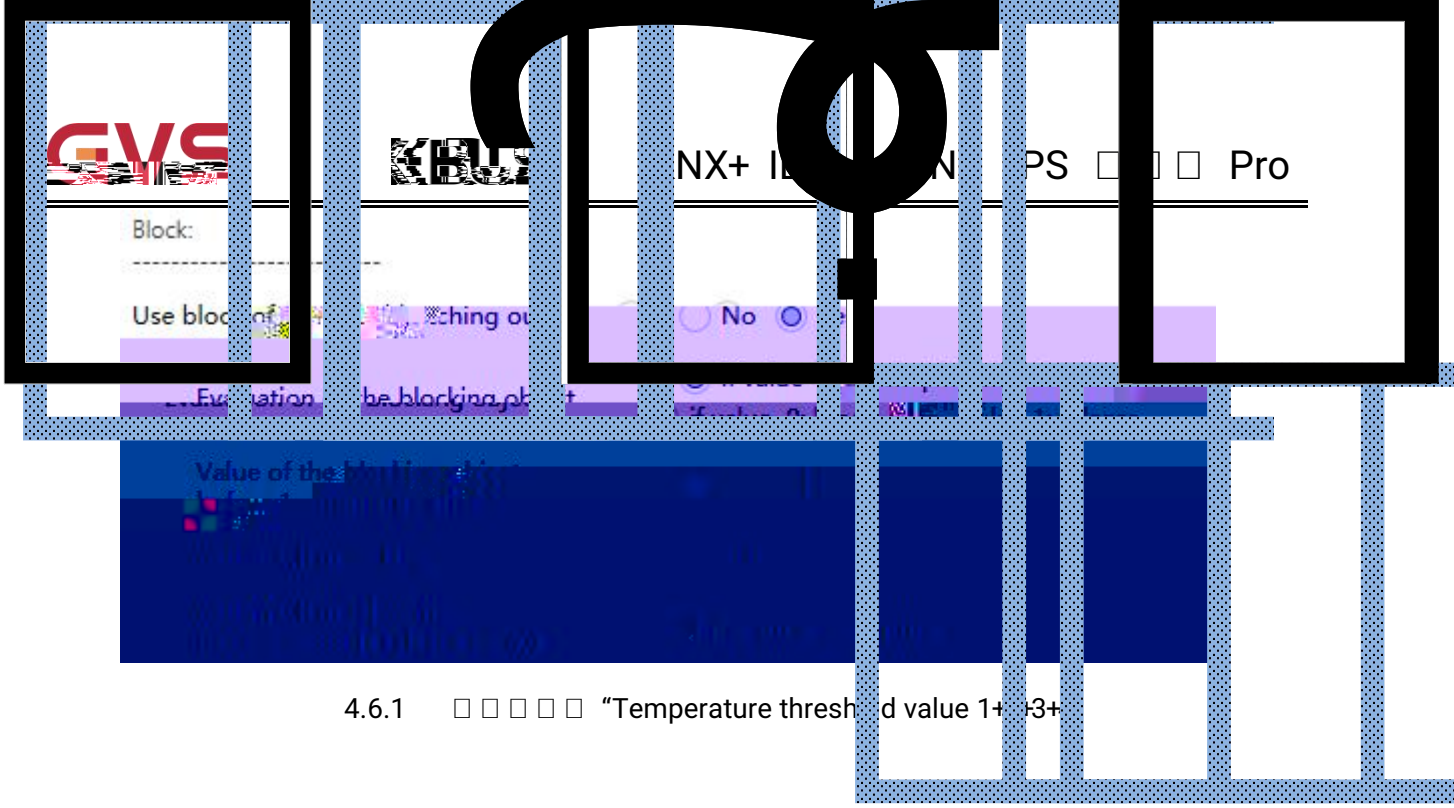
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Threshold value:
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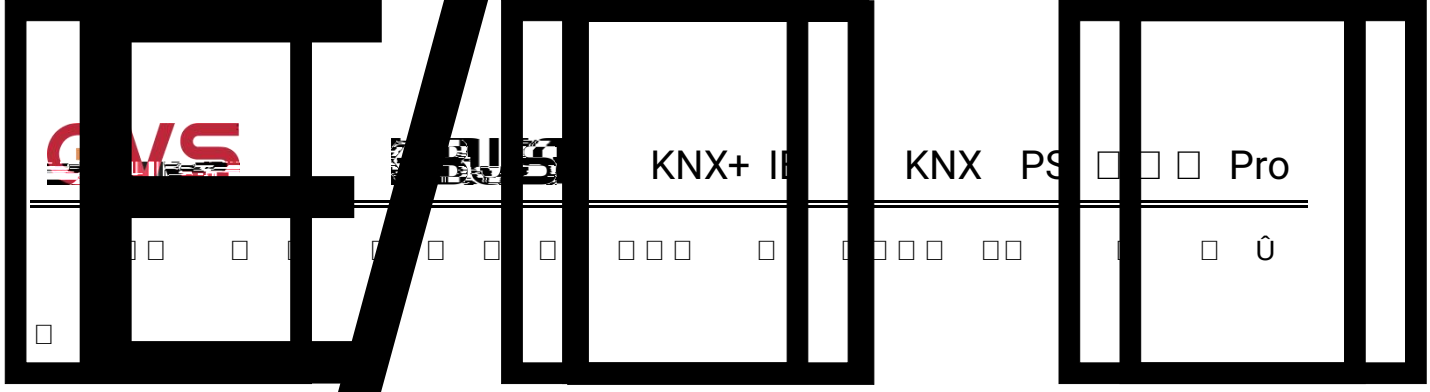
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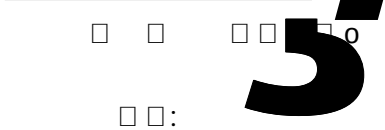
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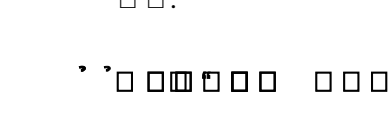
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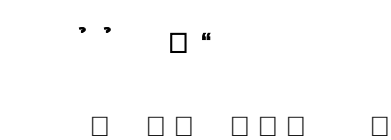
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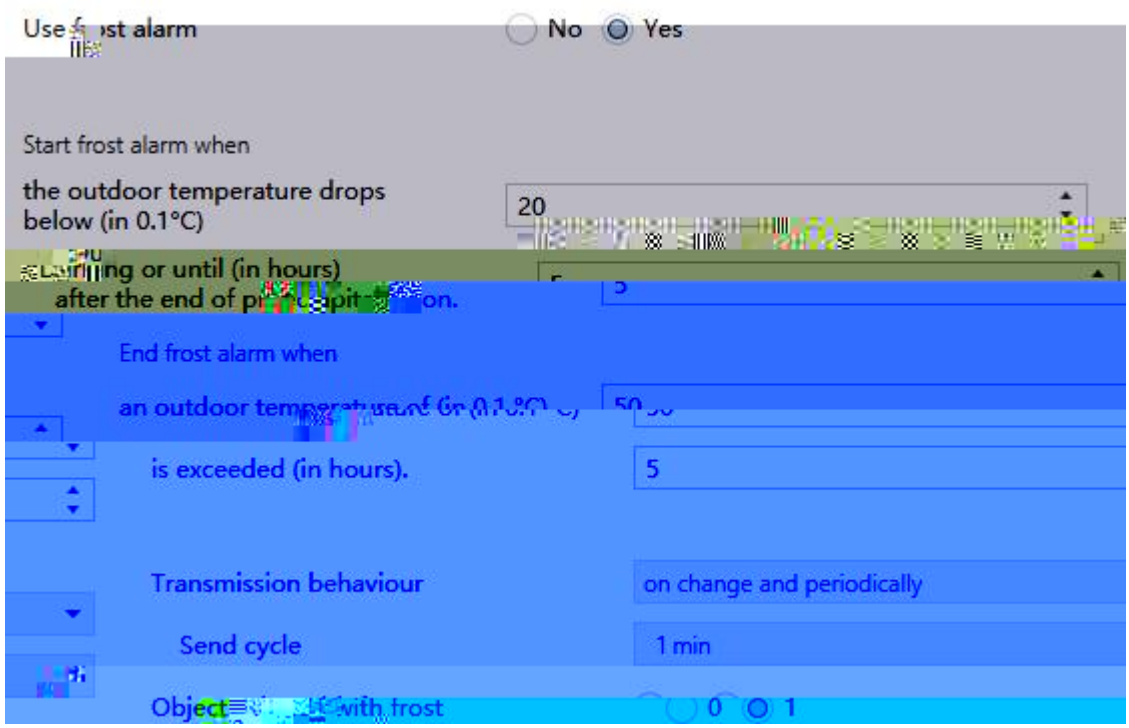
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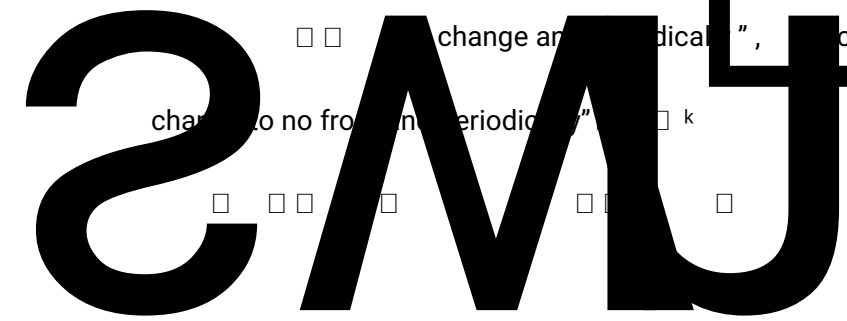
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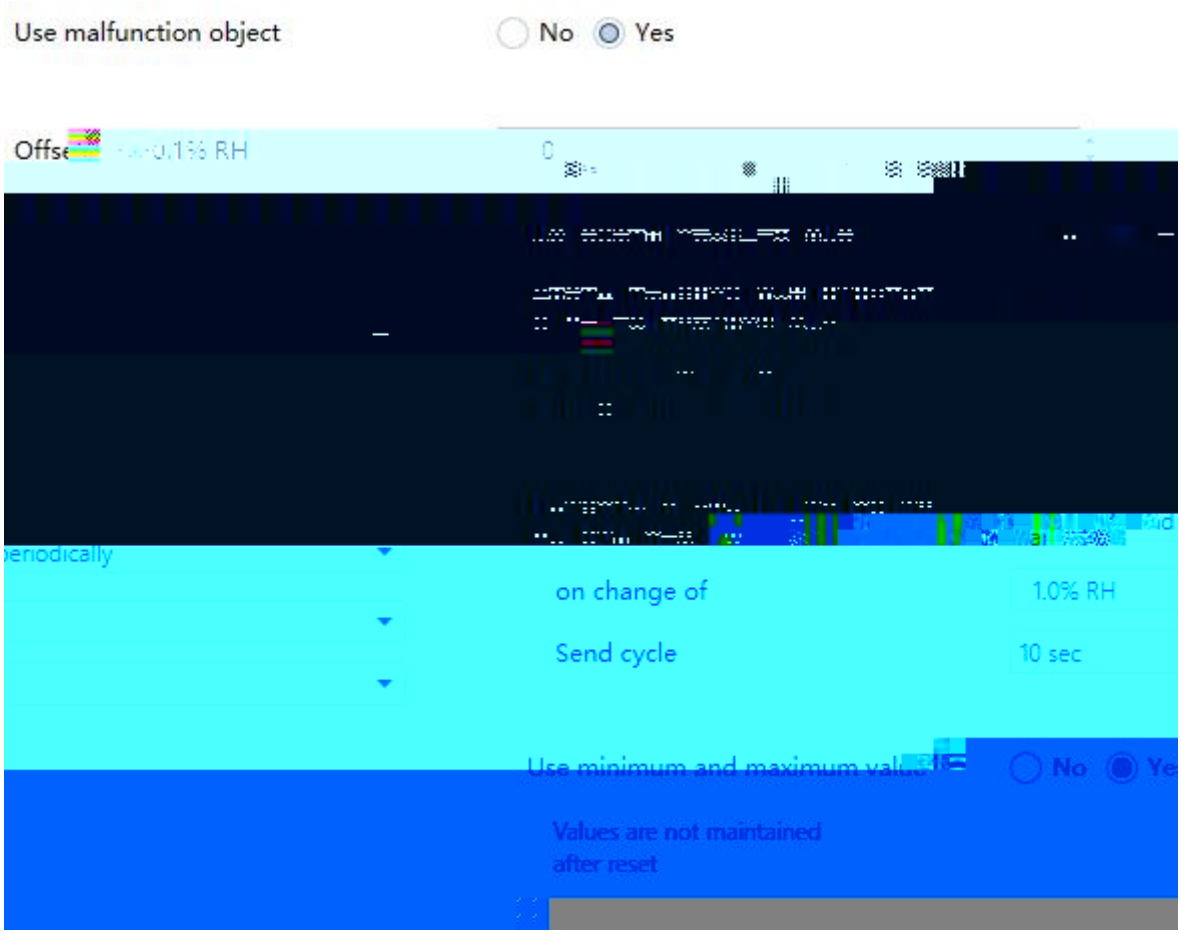
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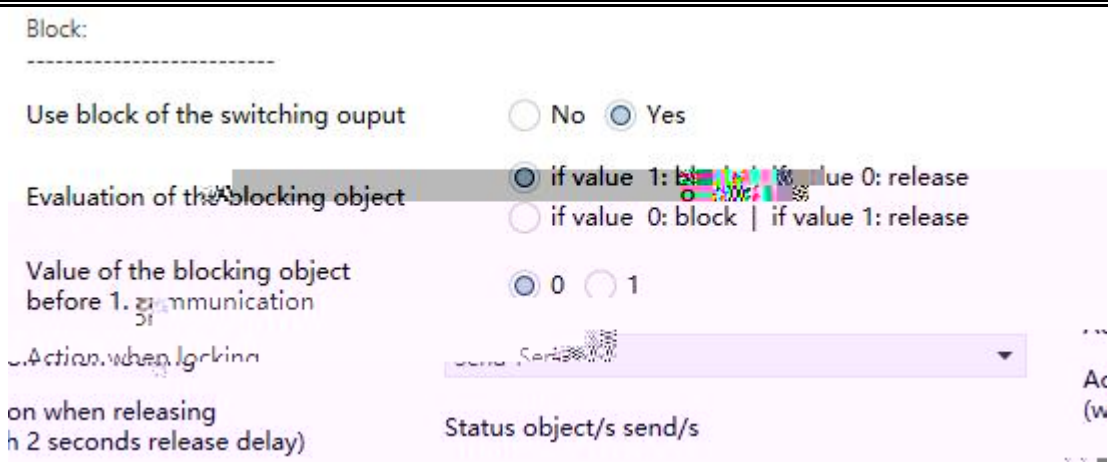
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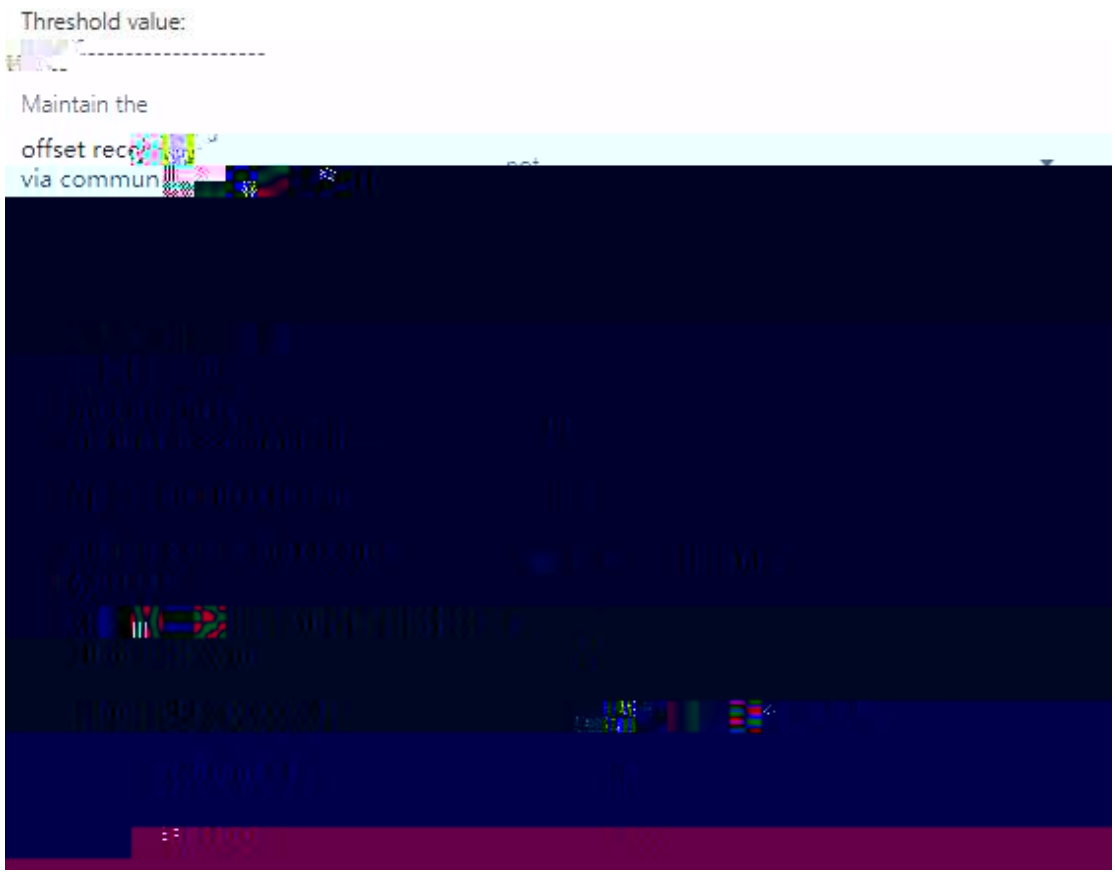
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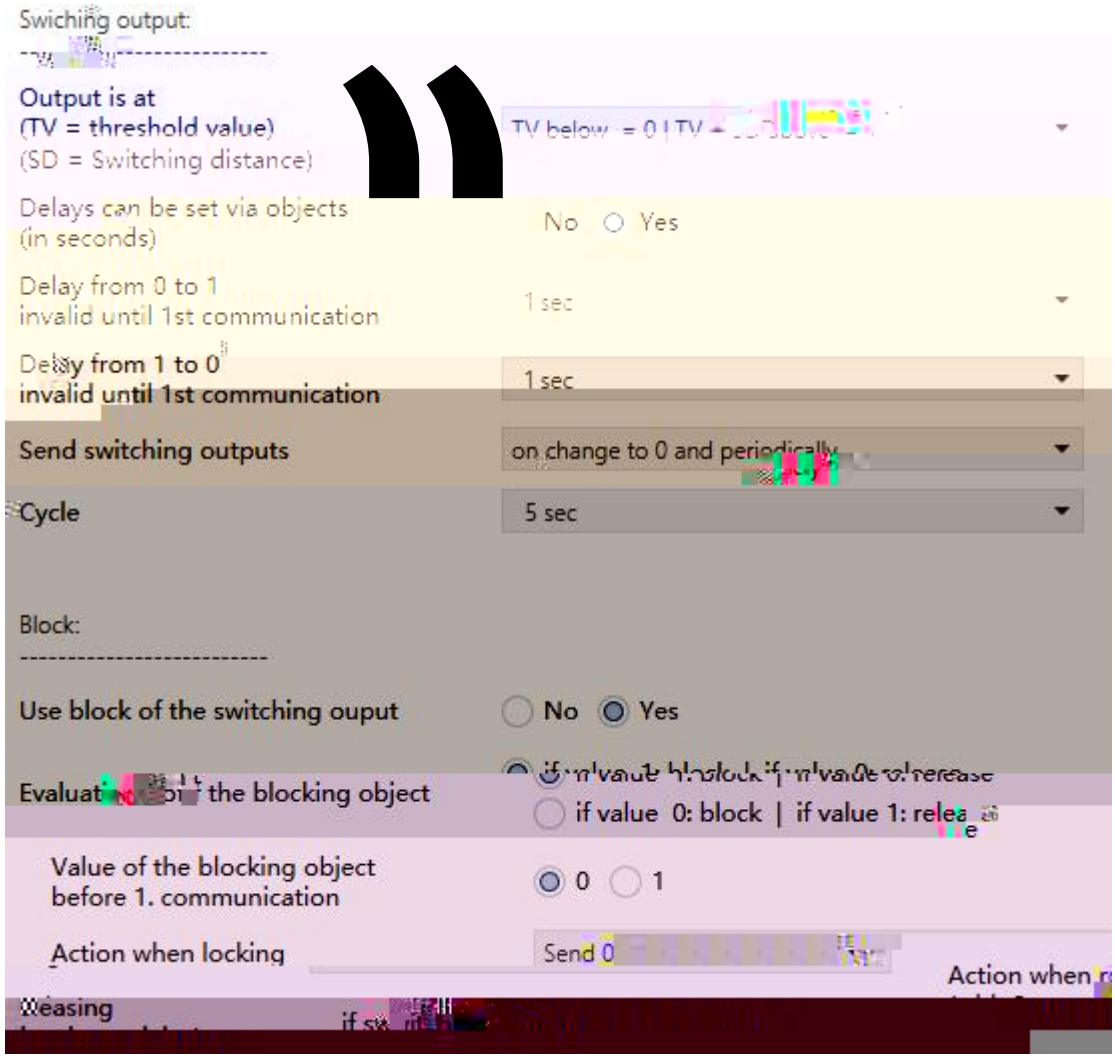
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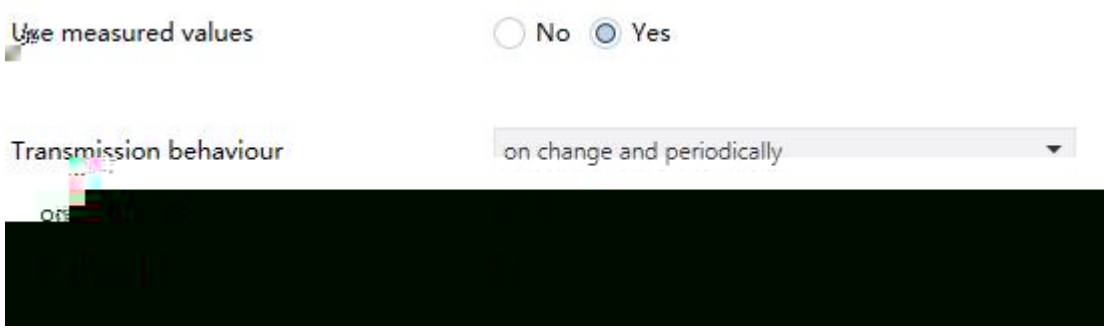
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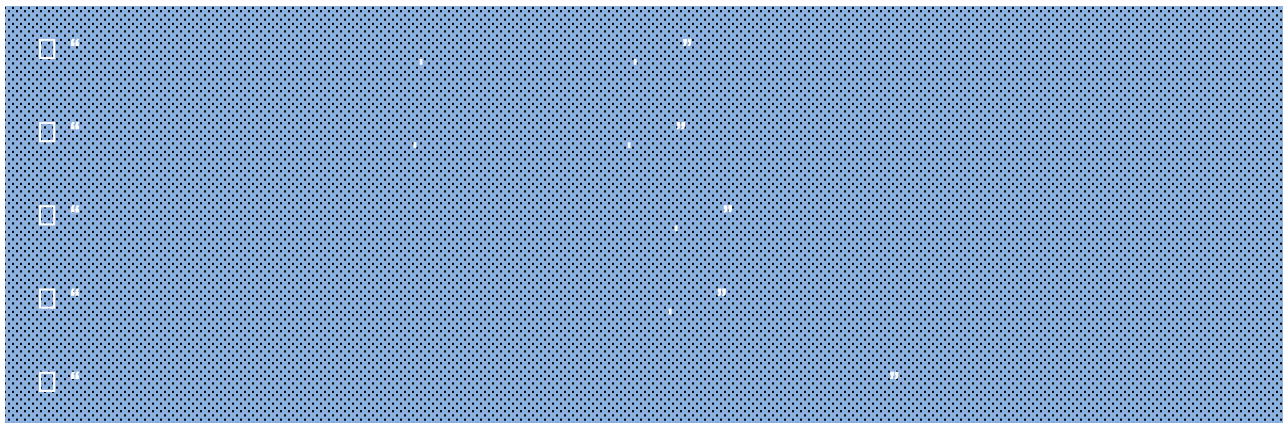
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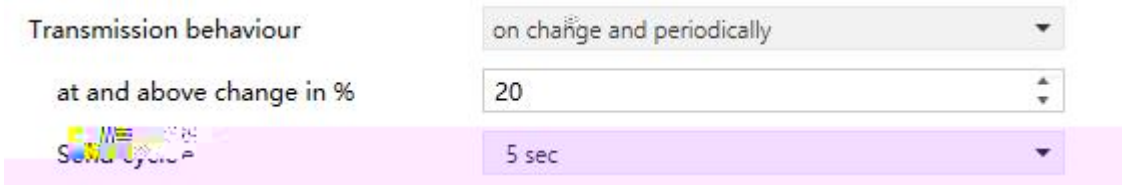
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4.13 □□□□□ “Brightness”

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□□ “periodically” “on change and periodically” □ □ k

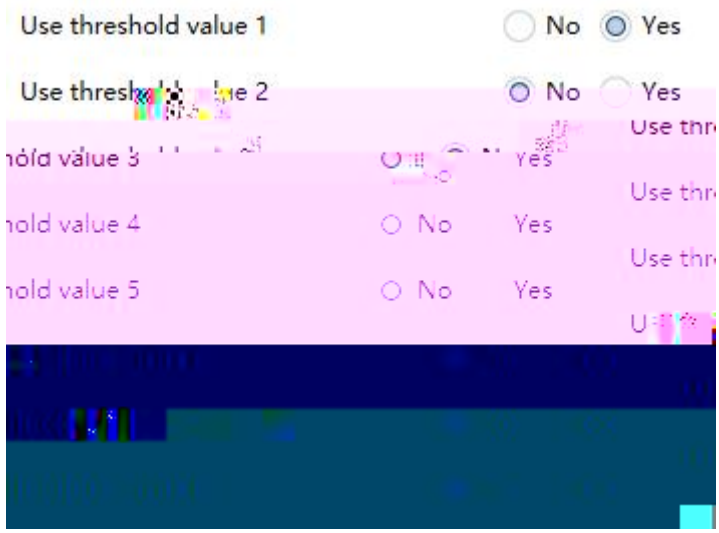
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“on change” and “on change and periodically”

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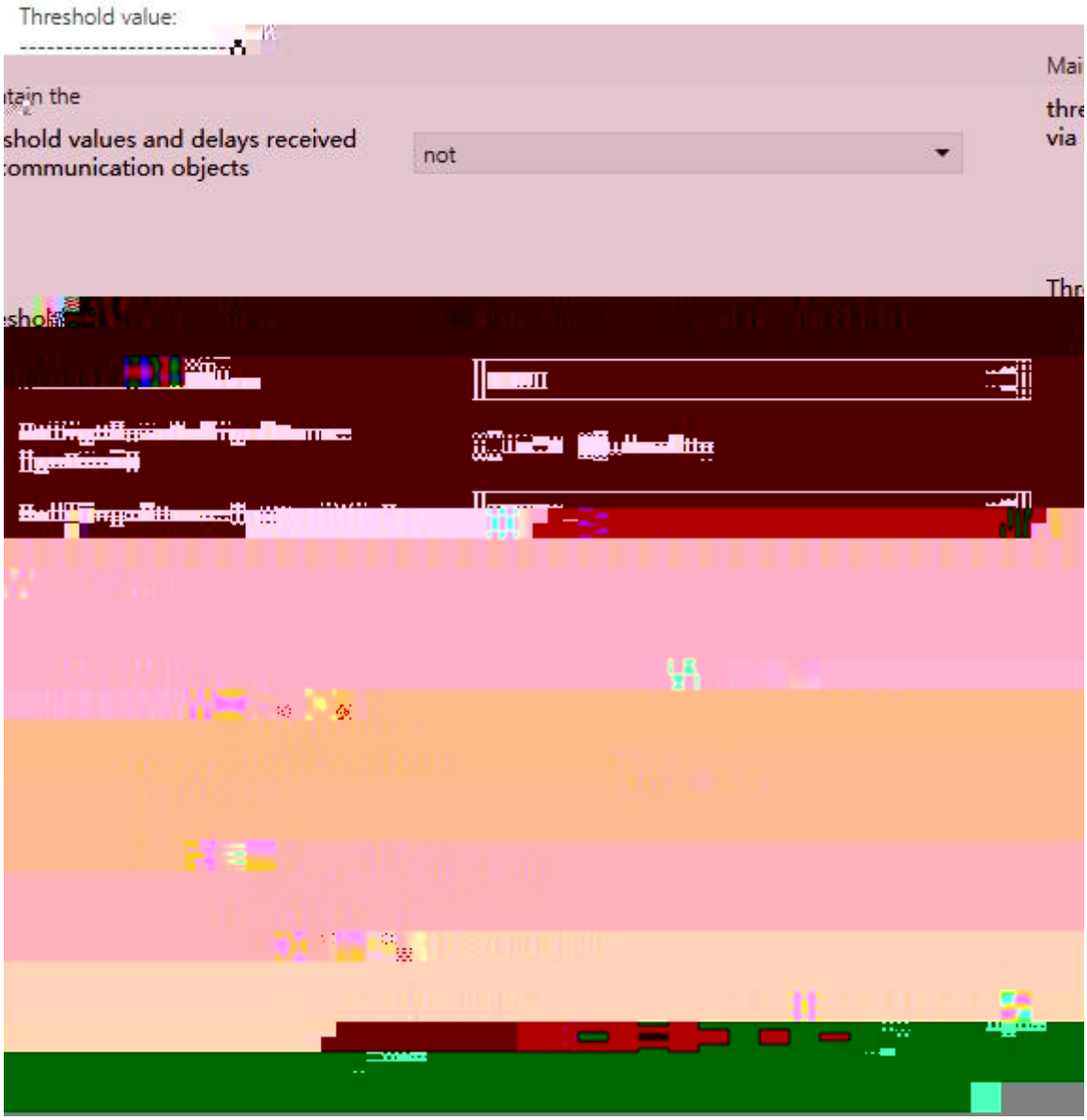


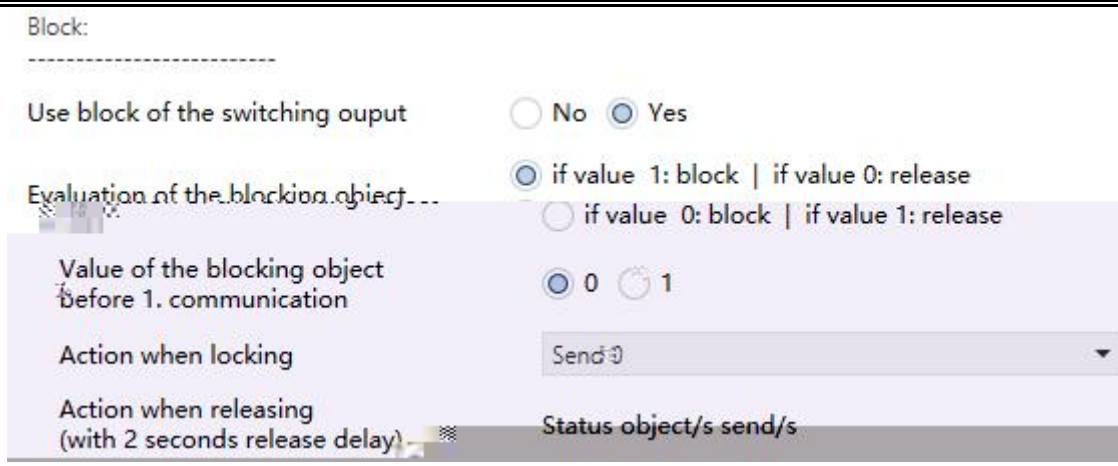
4.14 “Brightness threshold values”

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Threshold value:
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shold values and delays received
ommunication objects
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Block:
Use block of the switching ouput
No
Yes
Evaluation of the blocking object
if value 1: block | if value 0: release
if value 0: block | if value 1: release
Value of the blocking object before 1. communication
0
1
Action when locking
Send 0
Action when releasing (with 2 seconds release delay)
Status object/s send/s

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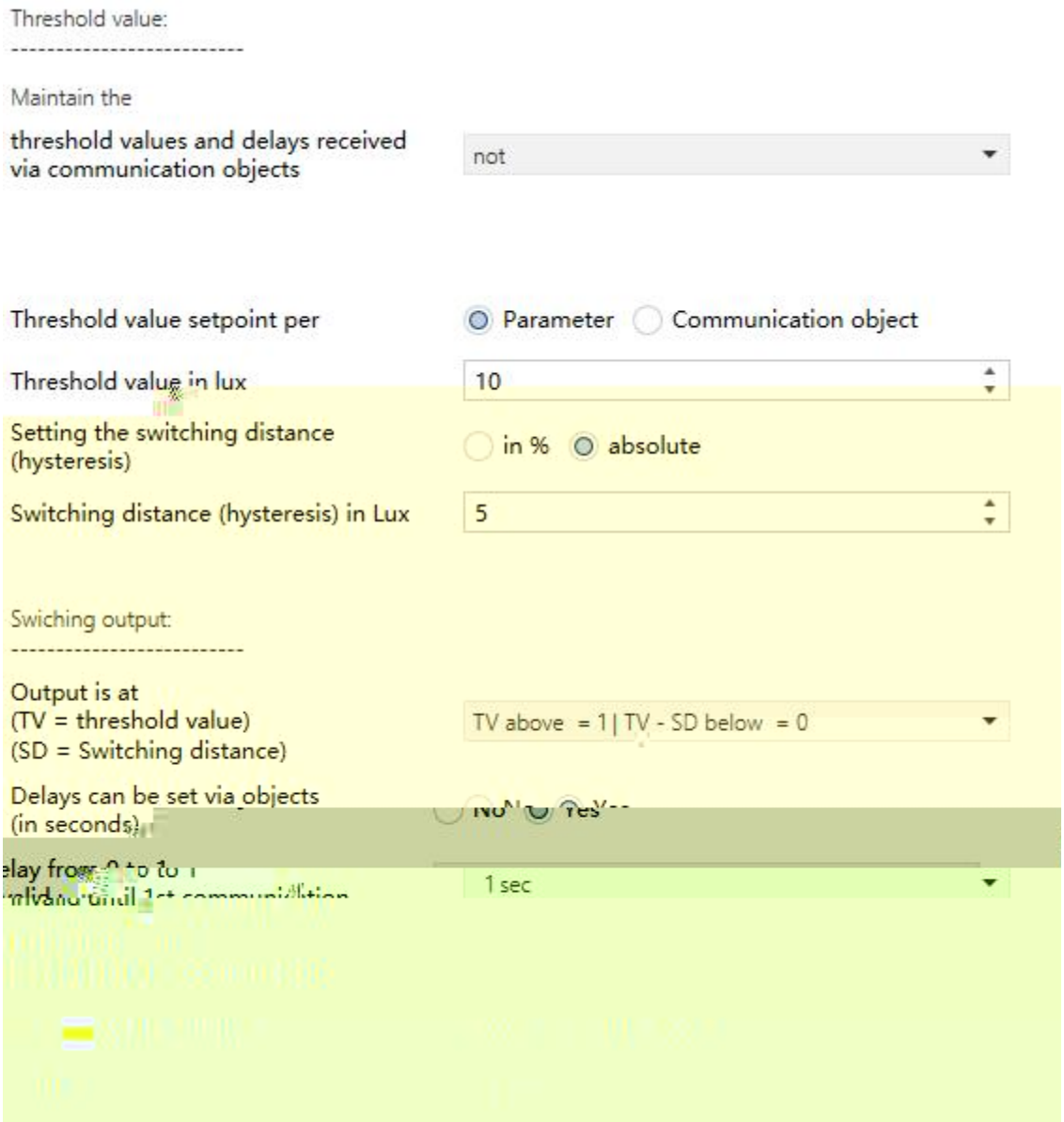
4.15 □□□□□ “Brightness, TV twilight sensor”

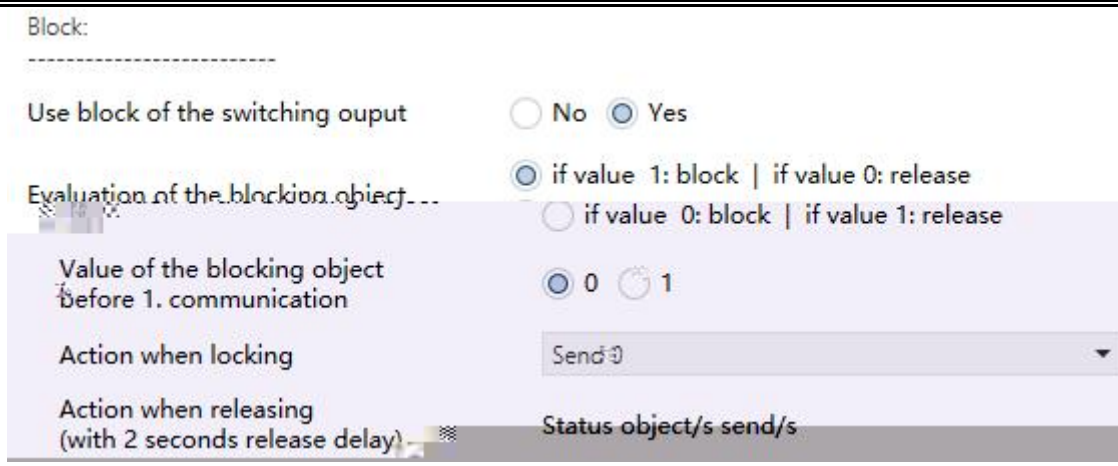
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Threshold value:
Maintain the
threshold values and delays received via communication objects
not
Threshold value setpoint per
Parameter
Communication object
Threshold value in lux
10
Setting the switching distance (hysteresis)
in %
absolute
Switching distance (hysteresis) in Lux
5
Swiching output:
Output is at
(TV = threshold value)
(SD = Switching distance)
TV above = 1 | TV - SD below = 0
Delays can be set via objects (in seconds)
1 sec



4.15.1 □□□□□ "Threshold value 1+2+3+4"

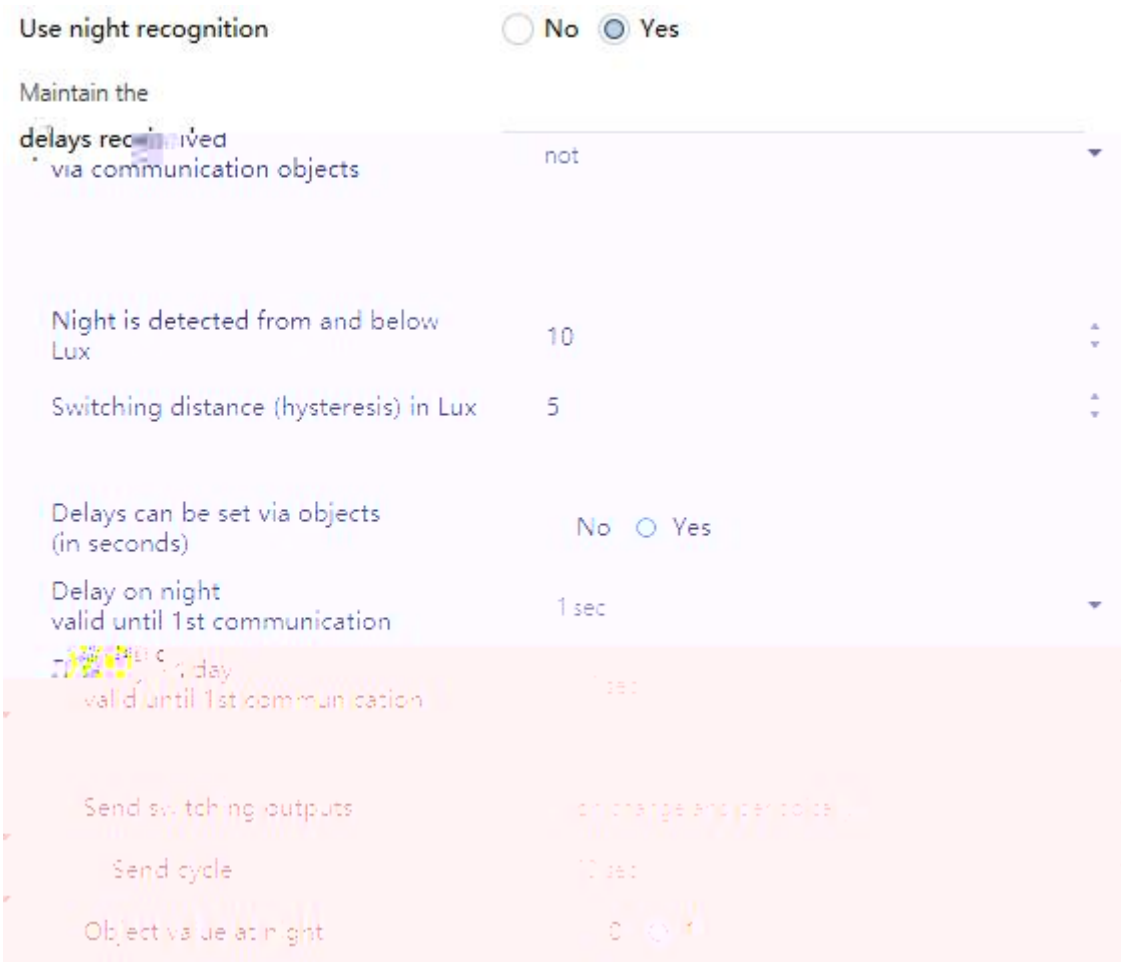
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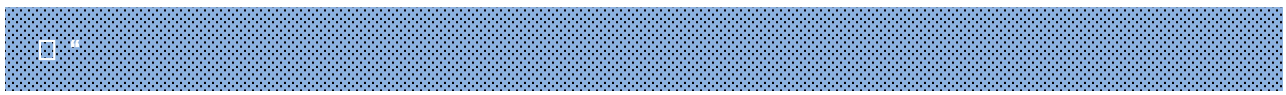

Use night recognition
No
Yes
Maintain the
delays received
via communication objects
not
Night is detected from and below
Lux
10
Switching distance (hysteresis) in Lux
5
Delays can be set via objects
(in seconds)
No
Yes
Delay on night
valid until 1st communication
1 sec

4.16 □□□□□ “Night”

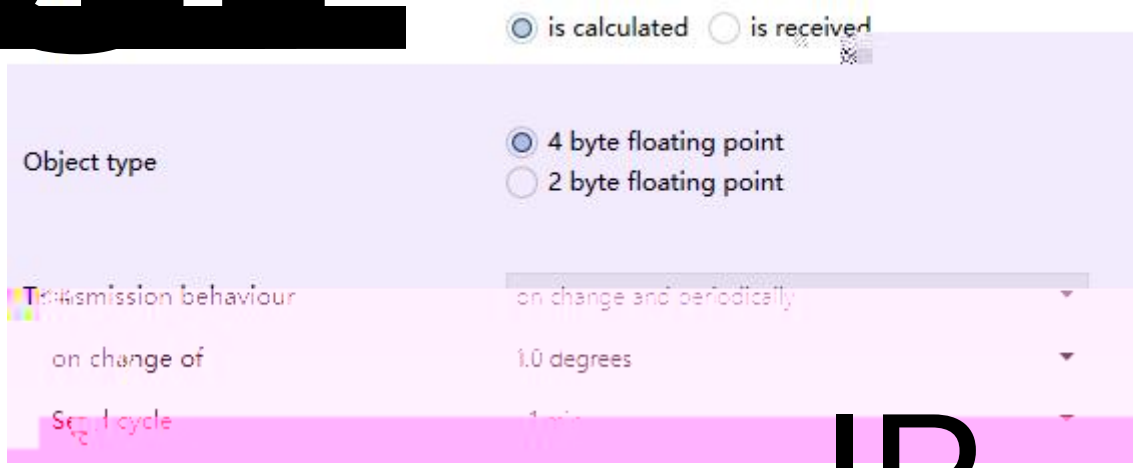
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4.17 □ □ □ □ □ “Sun position”

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“ ”

“on change” and “on change and periodically”

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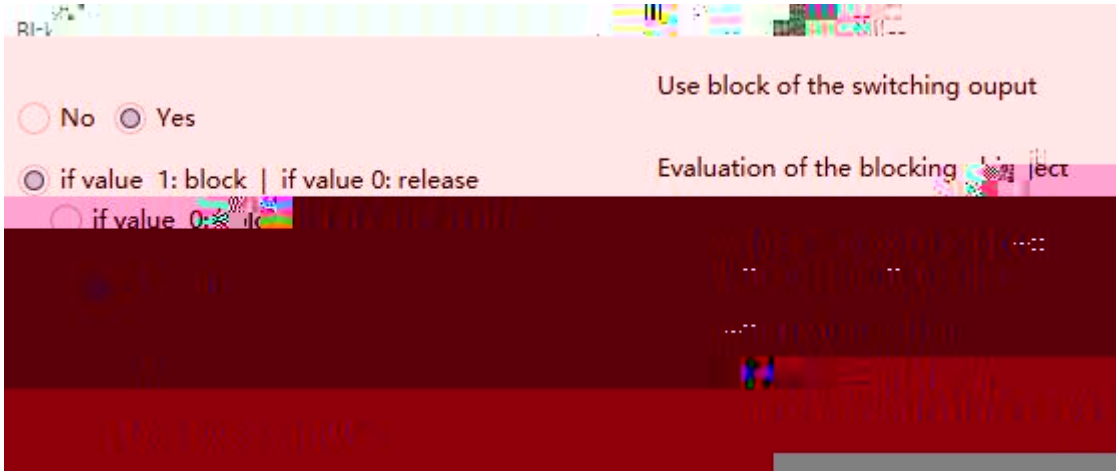
4.1 □□□□□ “Wind threshold value”

□ “ ”

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4.7.1 □□□□□ “Wind threshold value 1+2+3+4”

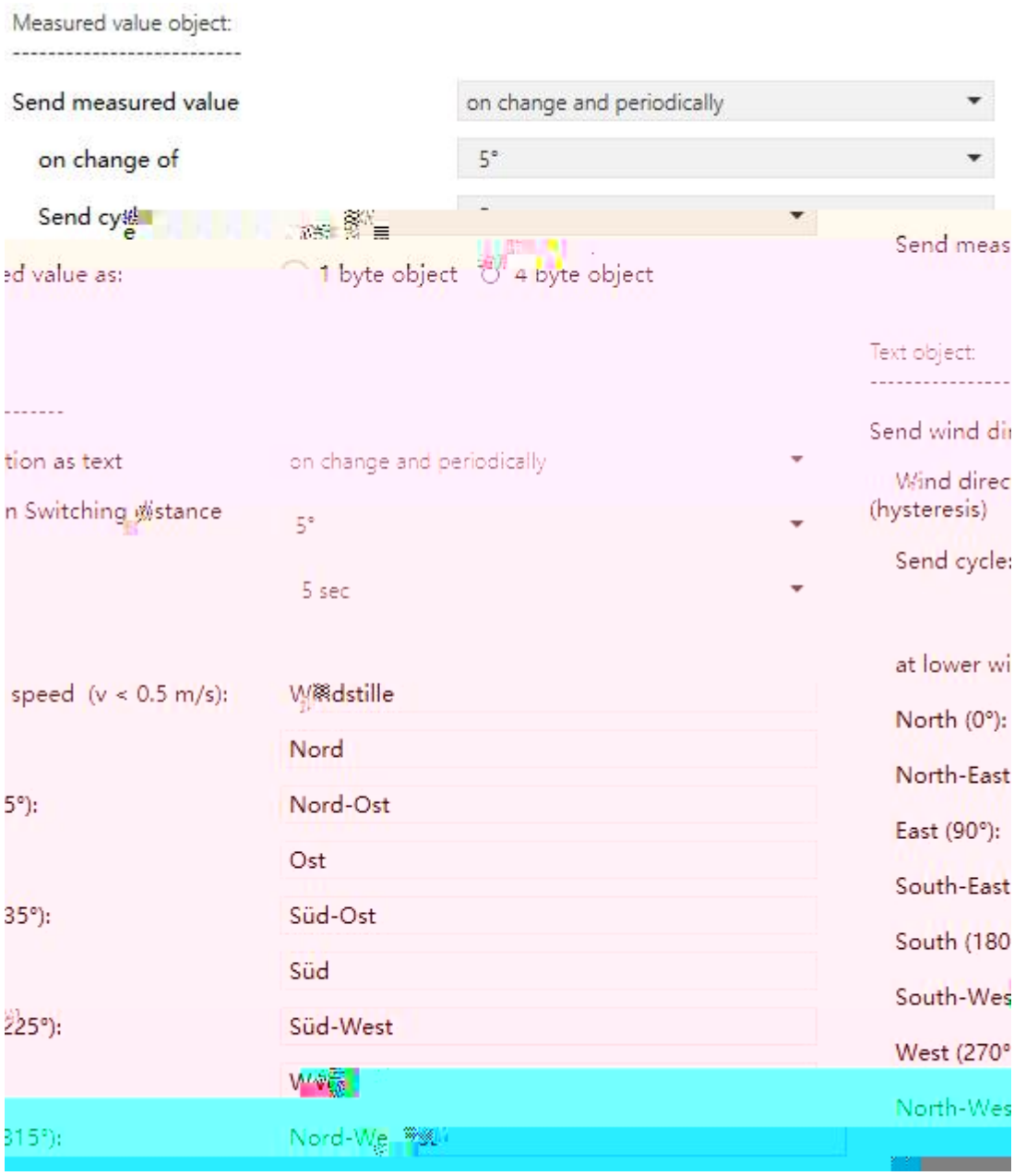
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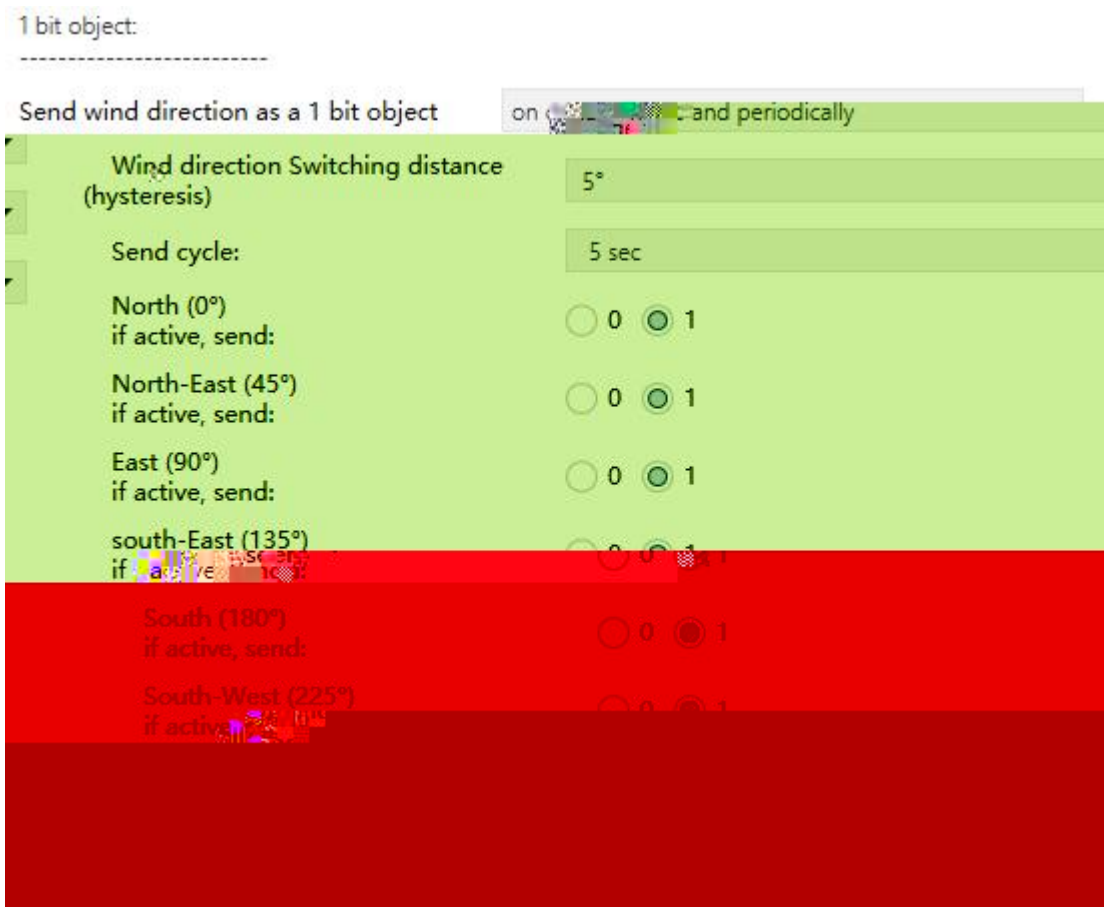
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Measured value object:
Send measured value
on change and periodically
on change of
5°
Send cy
e
Send meas
ed value as:
1 byte object
4 byte object
Text object:
Send wind di
tion as text
on change and periodically
Wind direc
n Switching stance
5°
(hysteresis)
Send cycle:
5 sec
at lower wi
speed (v < 0.5 m/s):
Windstille
North (0°):
Nord
North-East
5°):
Nord-Ost
East (90°):
Ost
South-East
35°):
Süd-Ost
South (180
Süd
South-Wes
225°):
Süd-West
West (270°
North-Wes
315°):
Nord-We



4.2 □ □ □ □ □ "Wind direction"

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□ □ “periodically” “on change and periodically” □ □ k

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□ □:

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- “periodically” “on change and periodically”

- “on change” “on change and periodically”

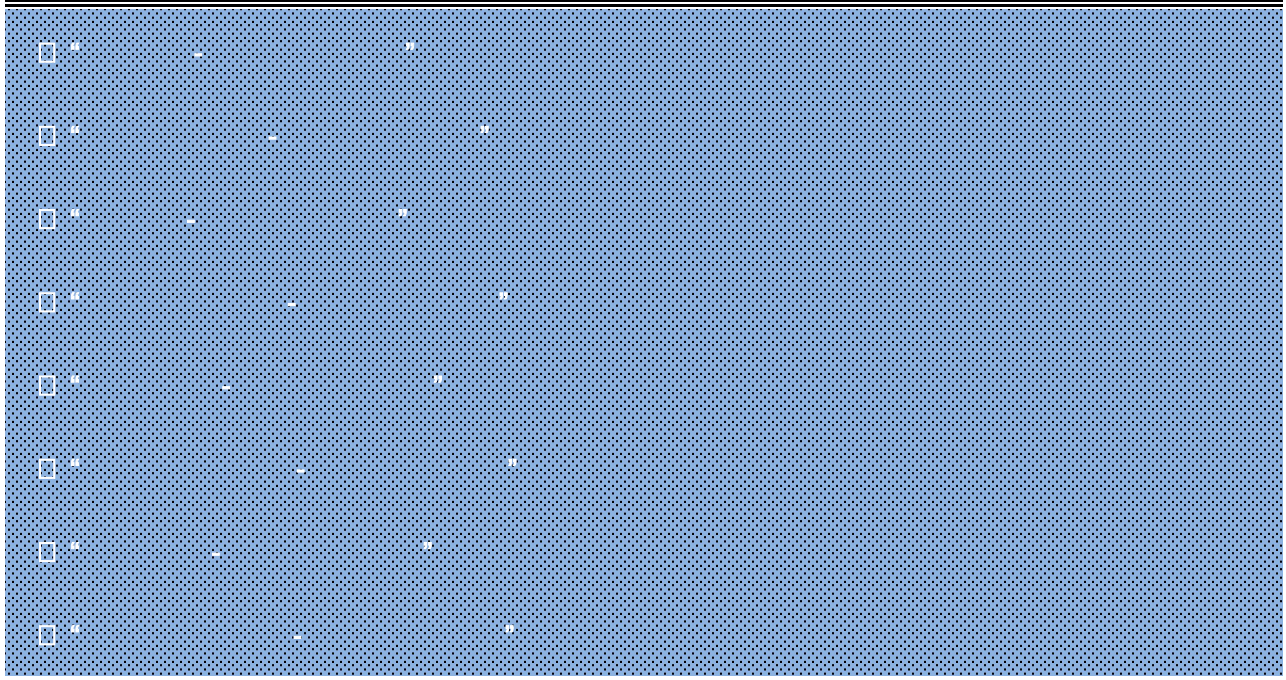
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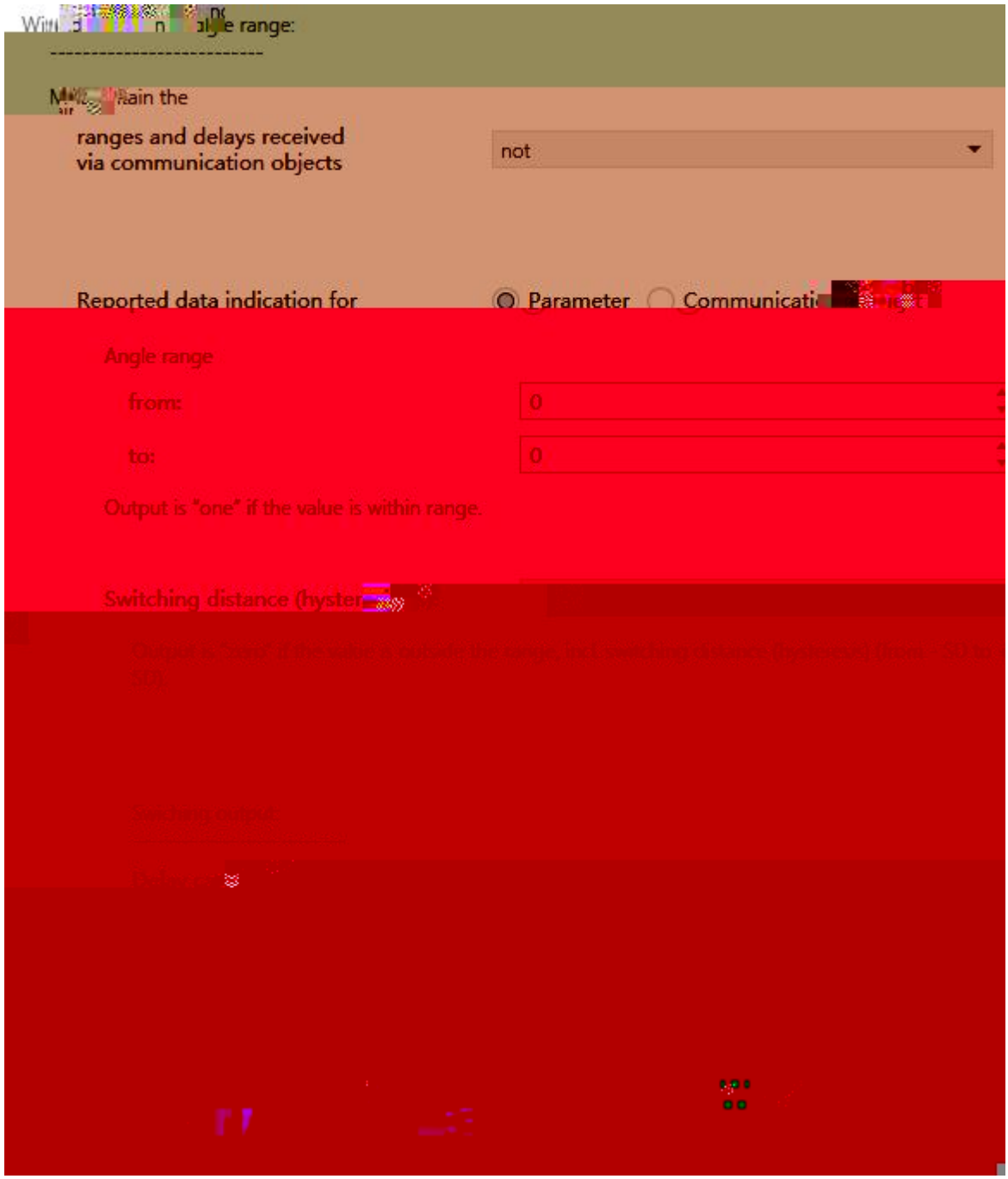


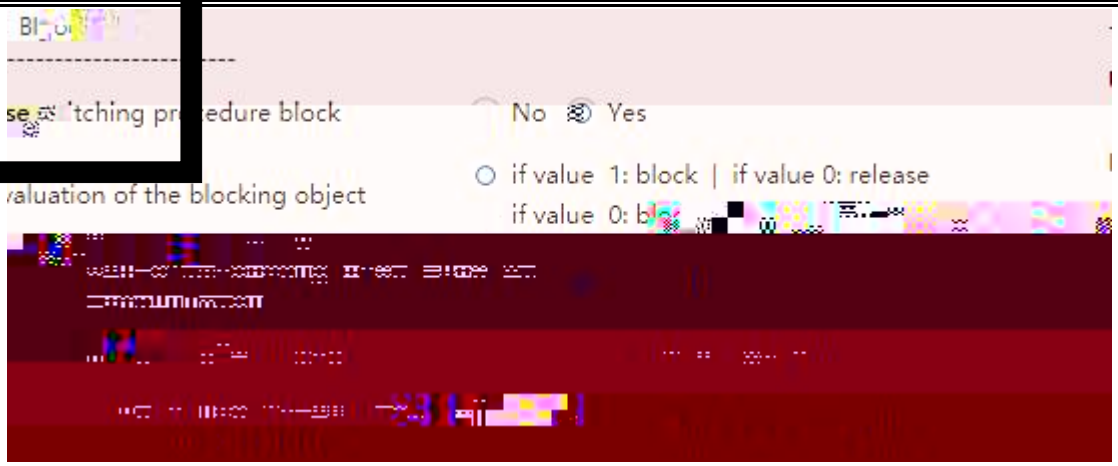
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range:
ranges and delays received via communication objects
not
Parameter
Angle range
from:
0
to:
0
Output is "one" if the value is within range.



4.21.1 □□□□□ “Range 1+2+3+4”

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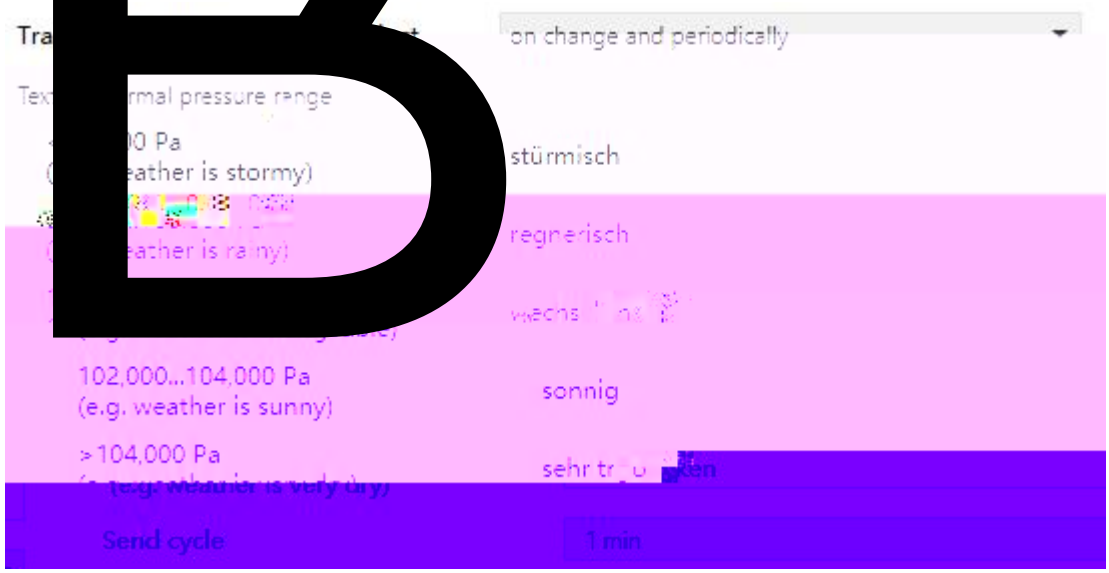
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4.22 □ □ □ □ □ “Pressure measured value”

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“periodically” “on change and periodically”

“on change” “on change and periodically”

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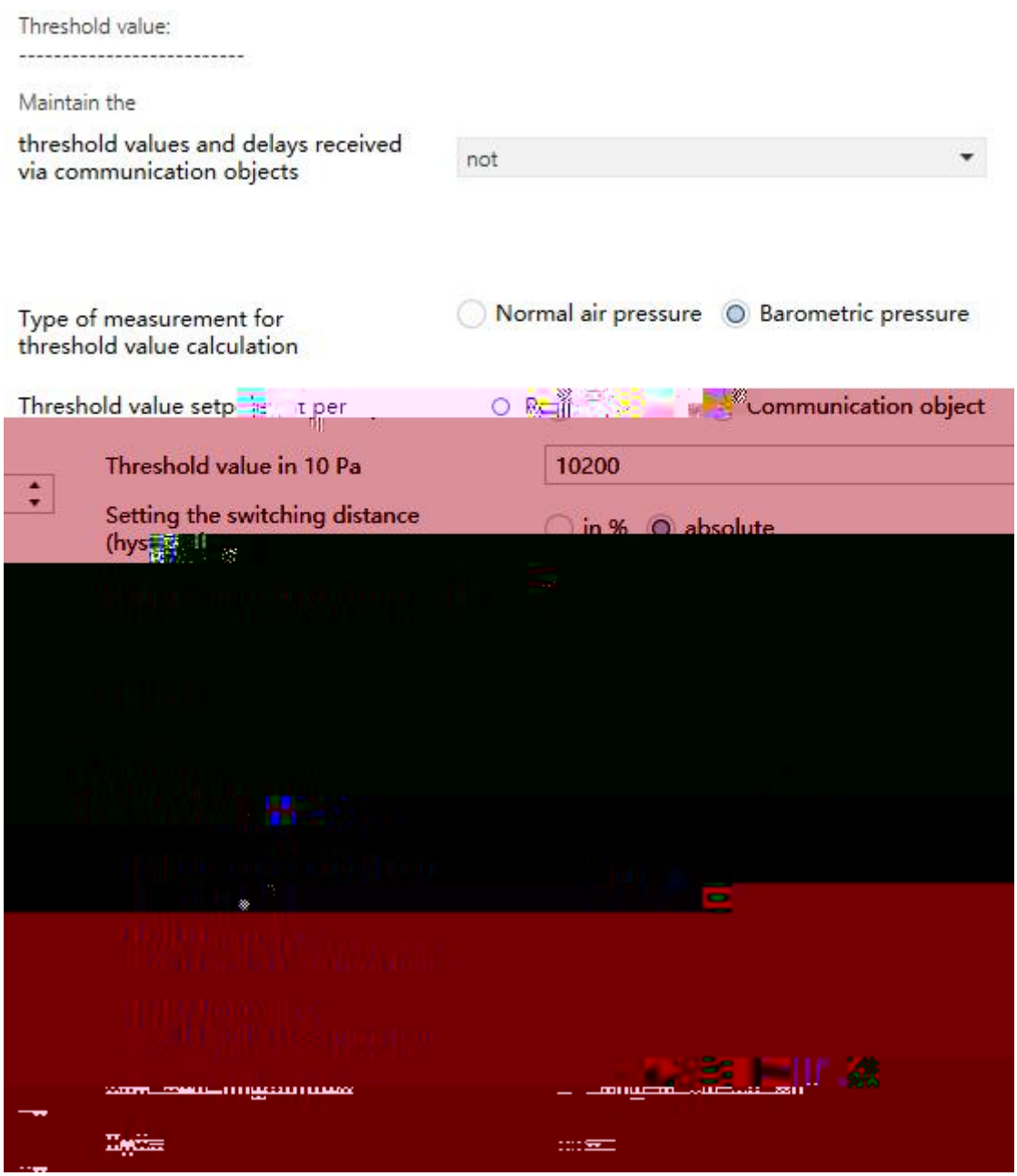
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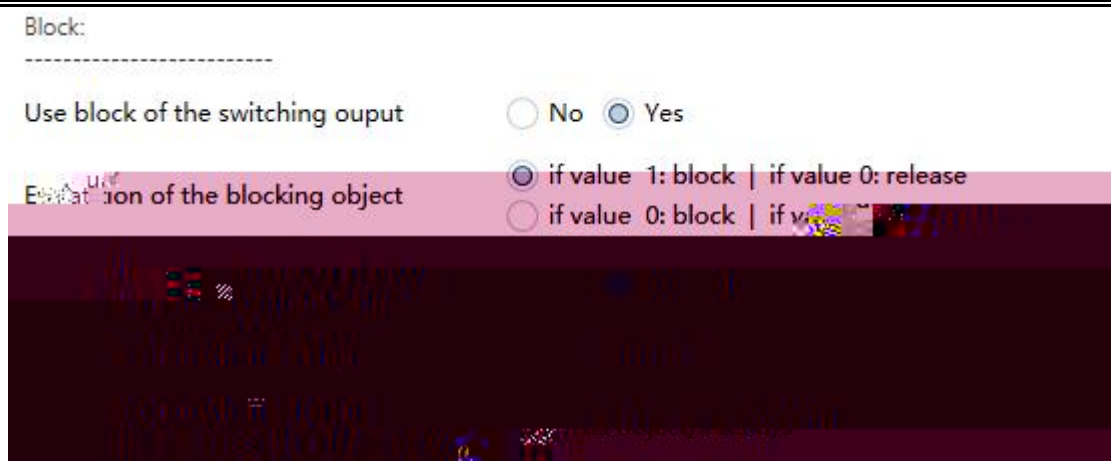
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Threshold value:
Maintain the
threshold values and delays received via communication objects
not
Type of measurement for threshold value calculation
Normal air pressure
Barometric pressure
Communication object
Threshold value in 10 Pa
10200
Setting the switching distance (hys
in %
absolute



4. □□□□□ “Threshold value 1+2+3+4”

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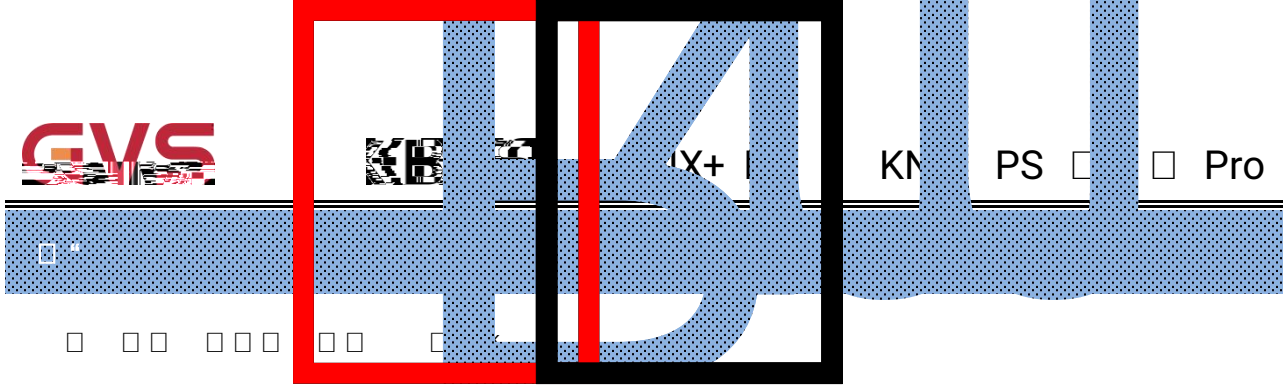
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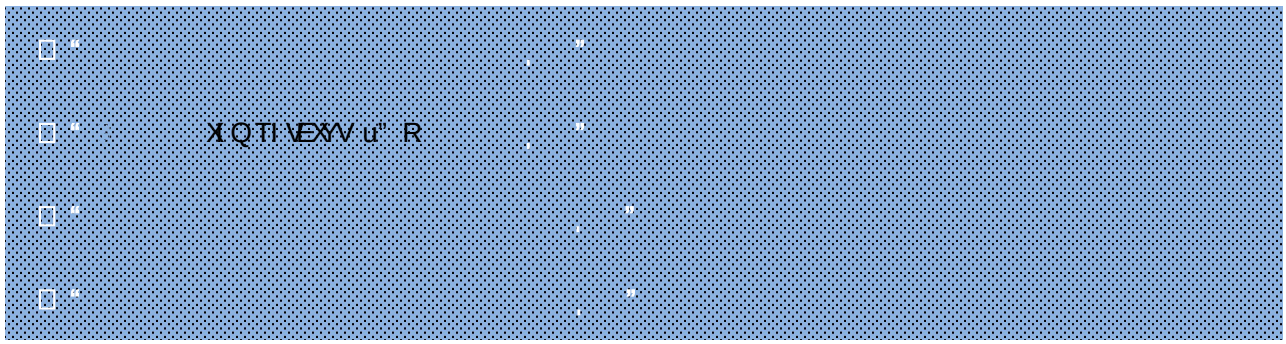
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“send value”

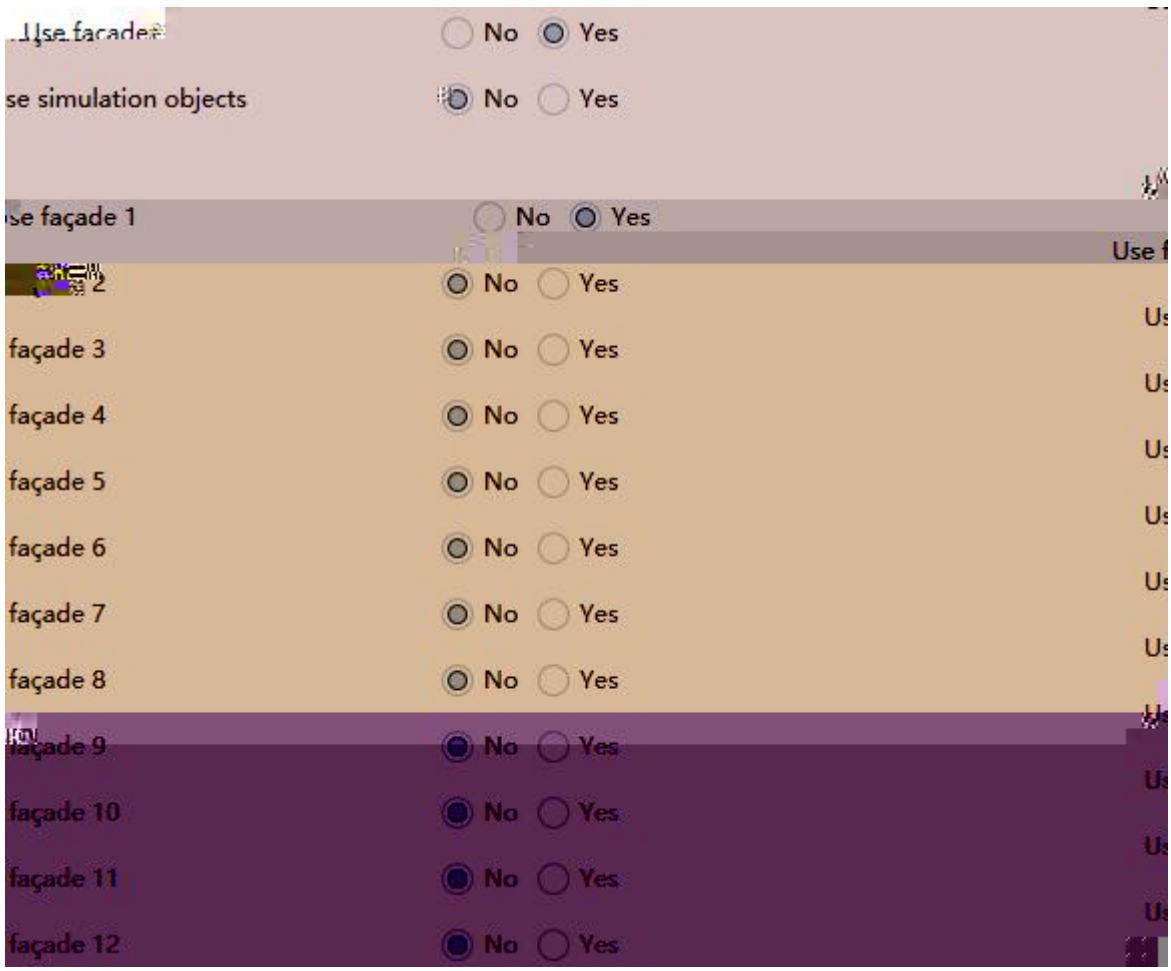
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4.25(1)



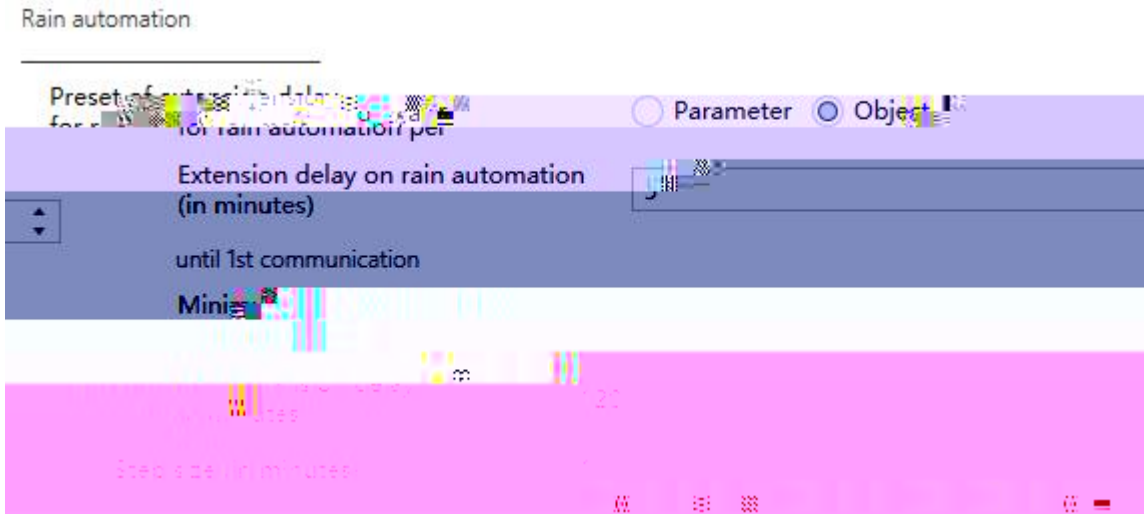
4.25(2) acades_ eneral settings



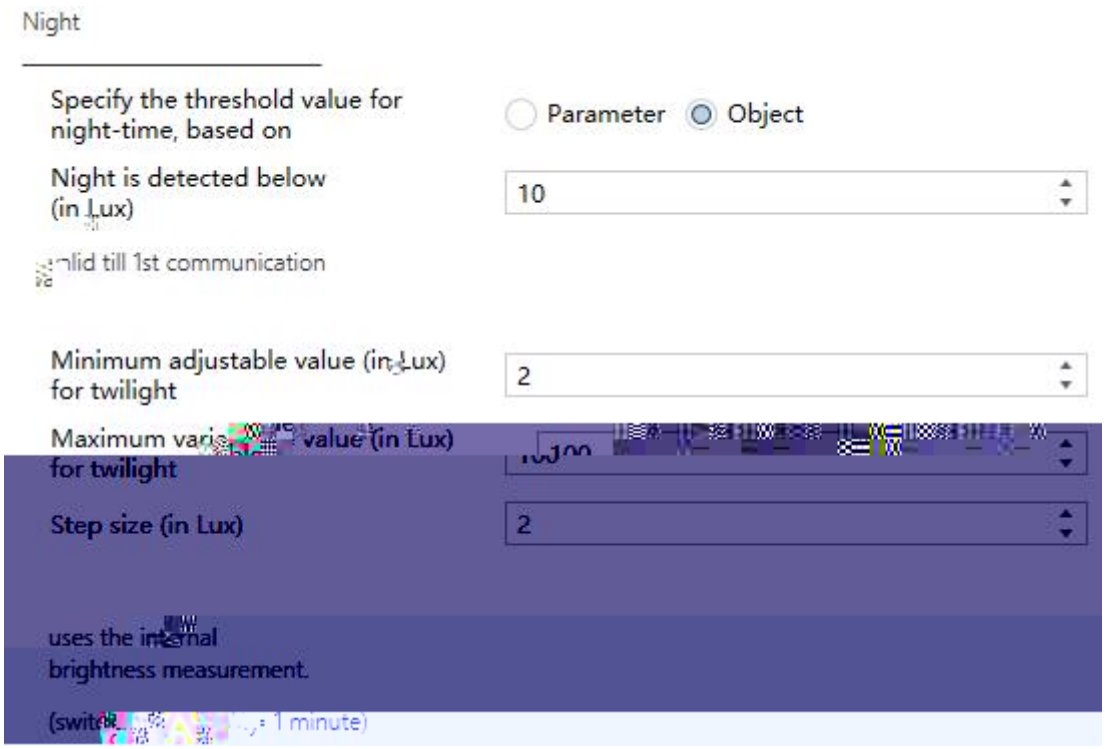
4.25(3) acades_Live monitoring



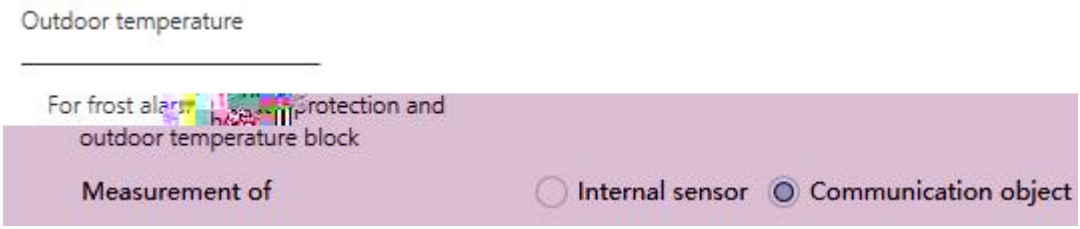
4.25(4) acades_Wind and rain alarm



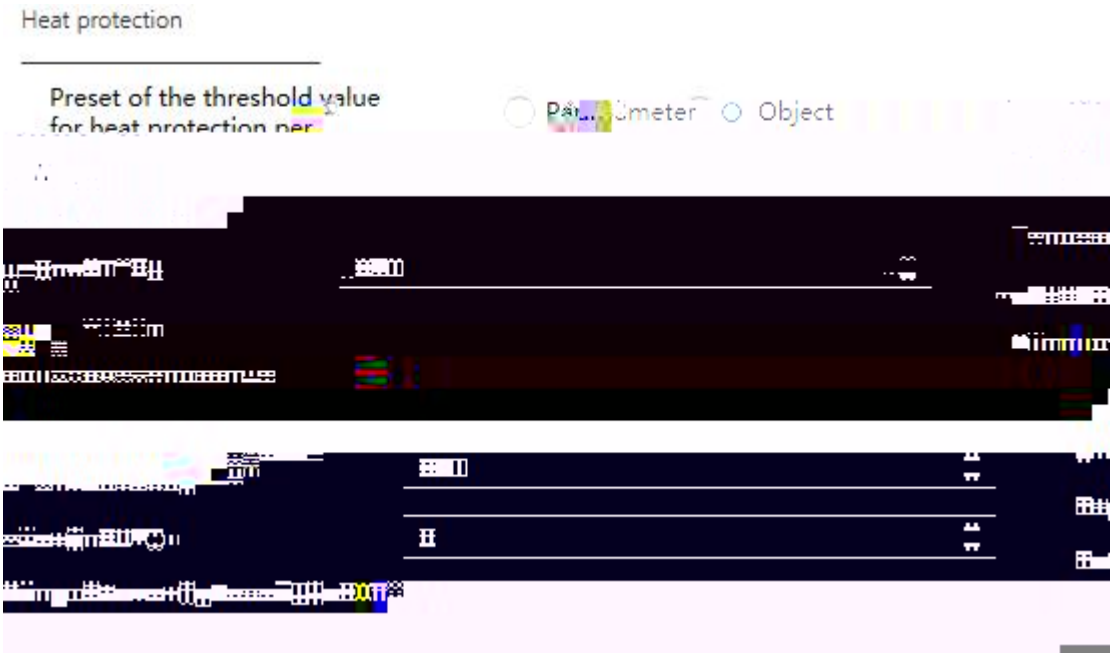
4.25(5) acades_Rain automation



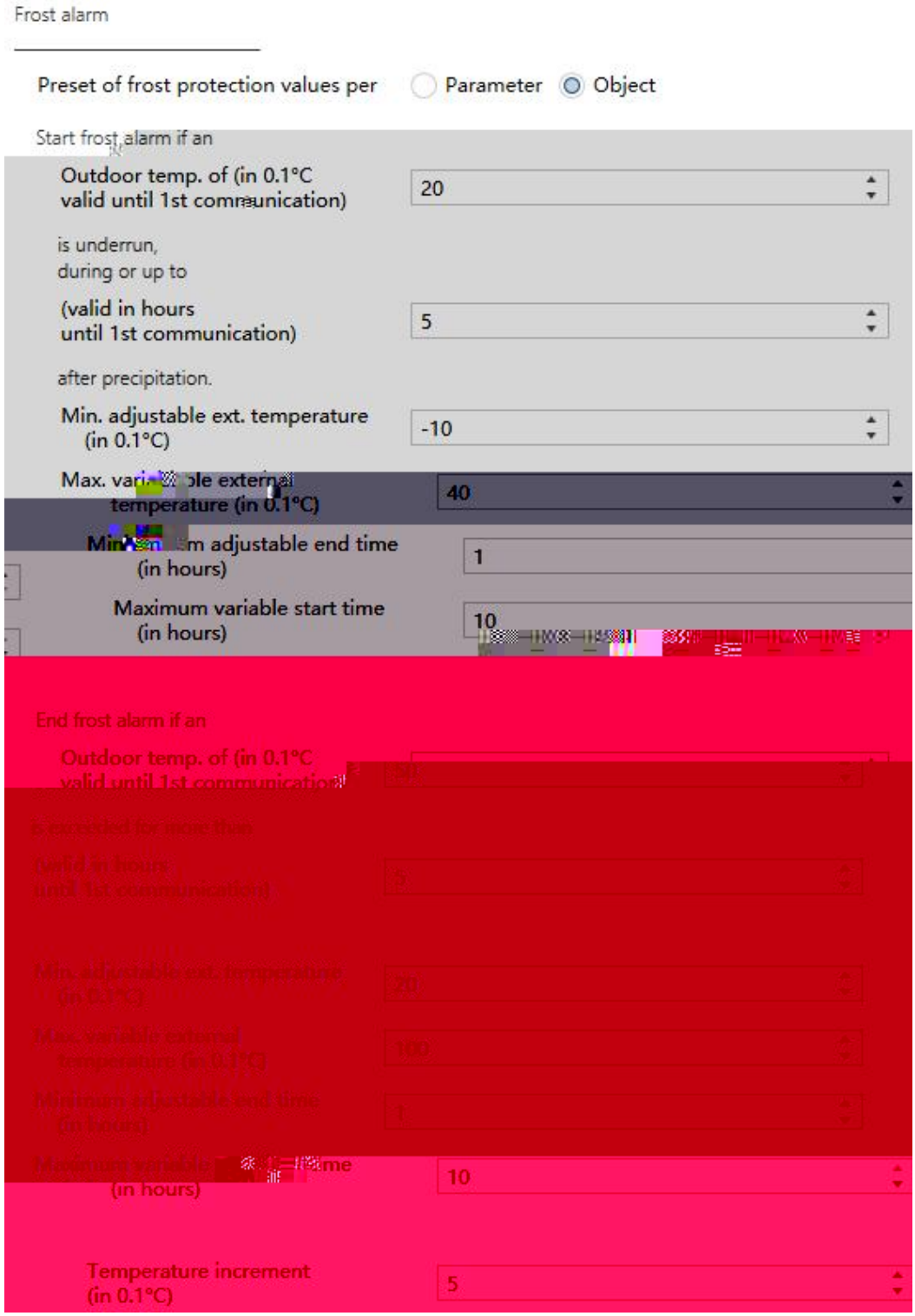
4.25(6) acades_Night



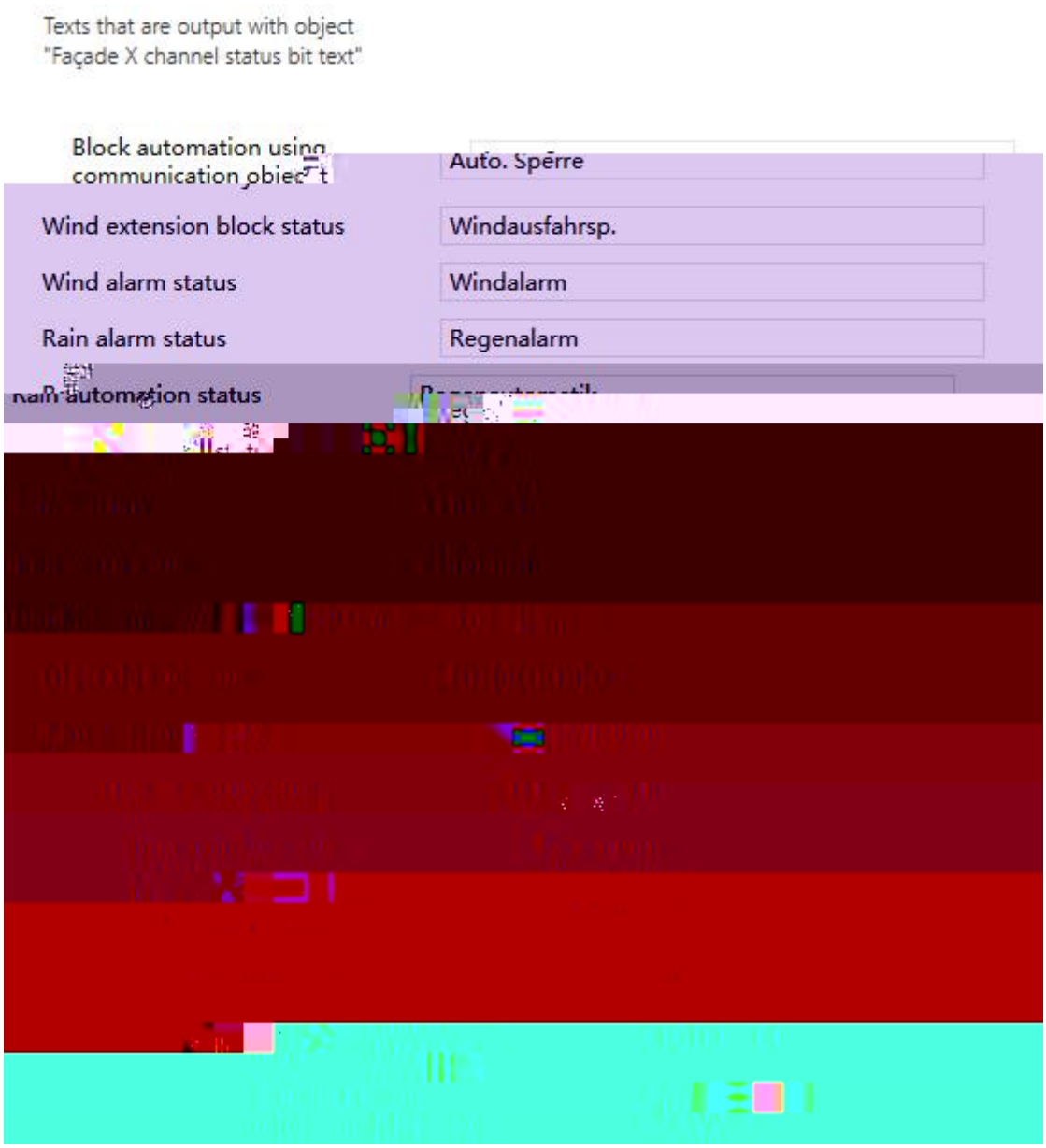
4.25(7) acades_Outdoor temperature



4.25( ) acades_Heat protection



4.25( ) acades_ rost alarm



4.25(12) acades_Text that are output with object” acade X channel state bit text”

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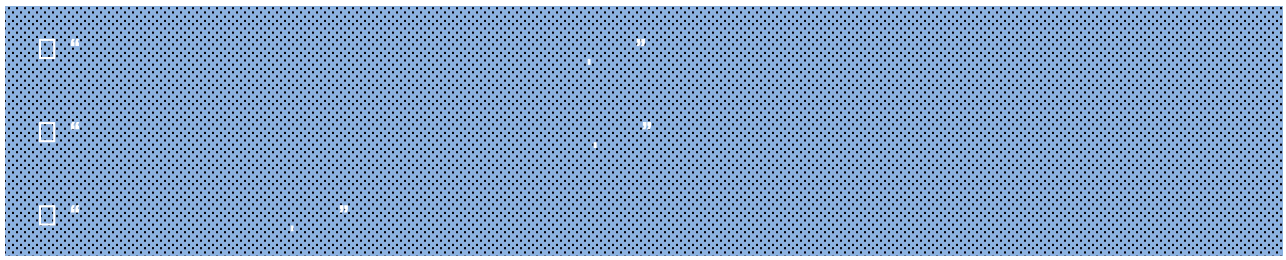
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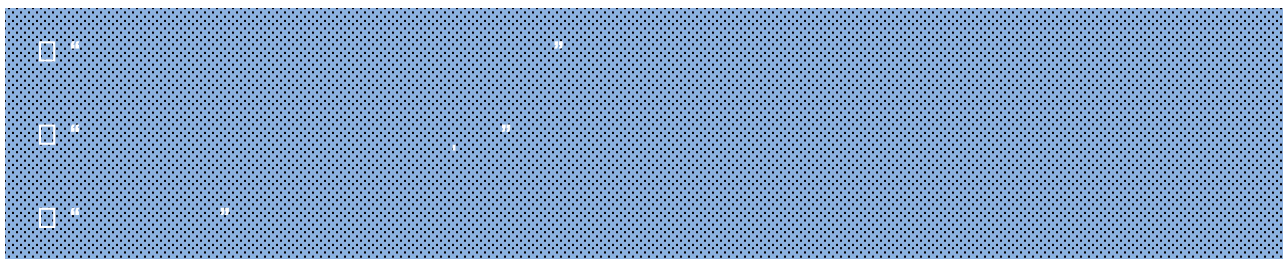
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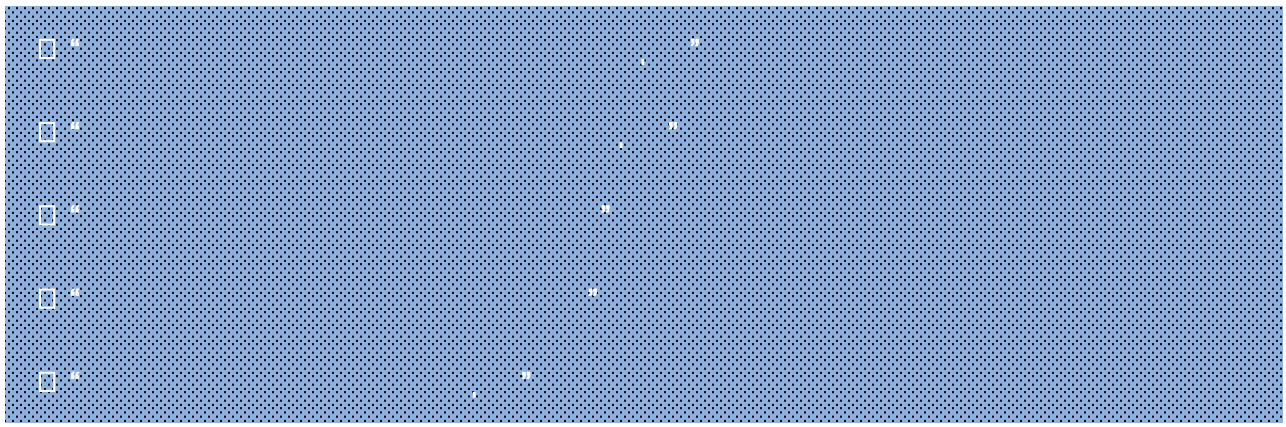
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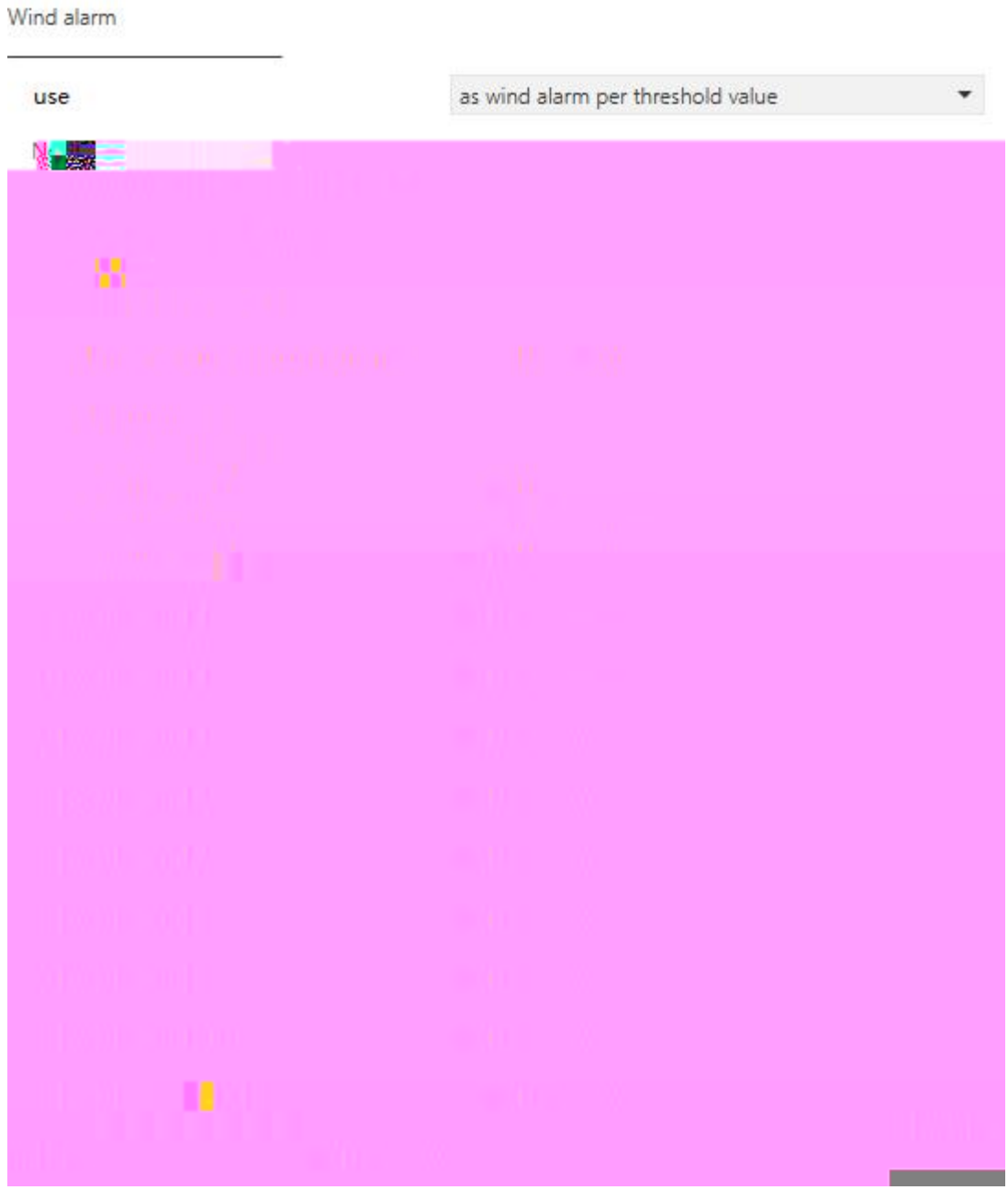
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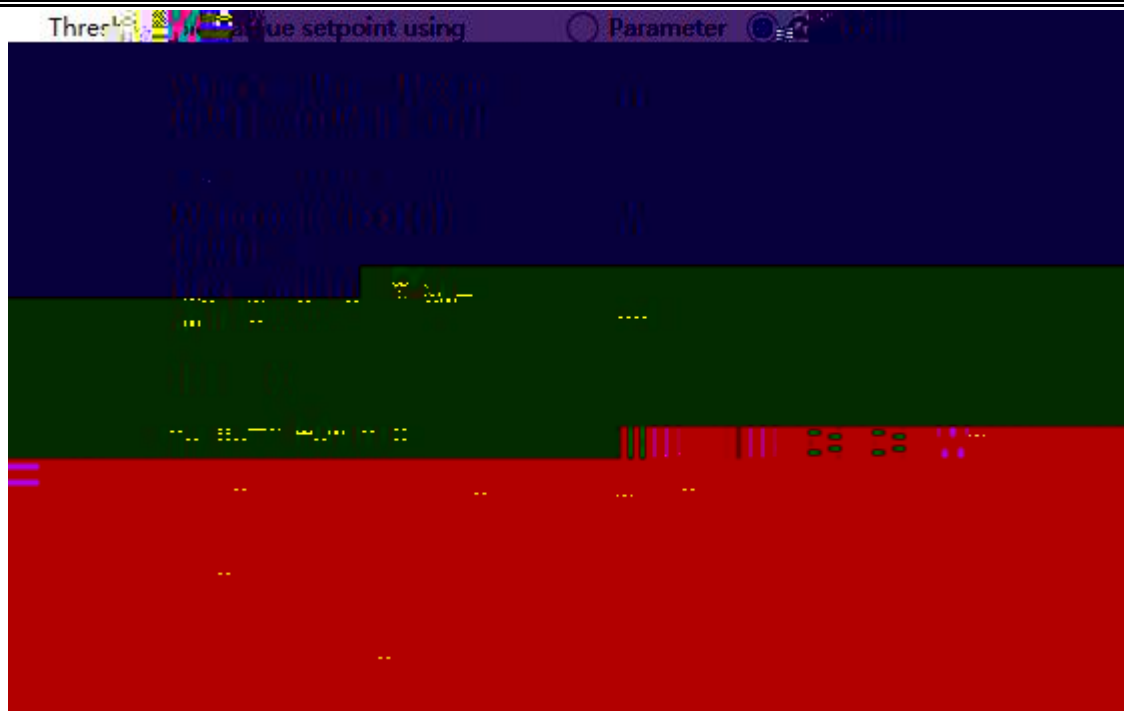
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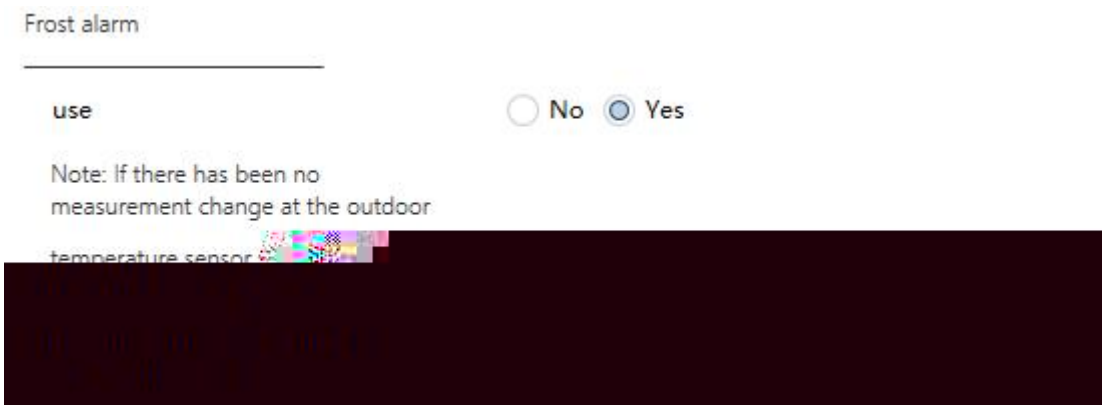

Name
Fassade 1
Use simulation objects
No
Yes
Does the screen have slats?
No
Yes
Evaluation of the blocking object
1 = block | 0 = Release
0 = block | 1 = Release
Blocking object value
Action after locking
Execute the last automatic command
Wait for next automatic command

4.25.1(1)

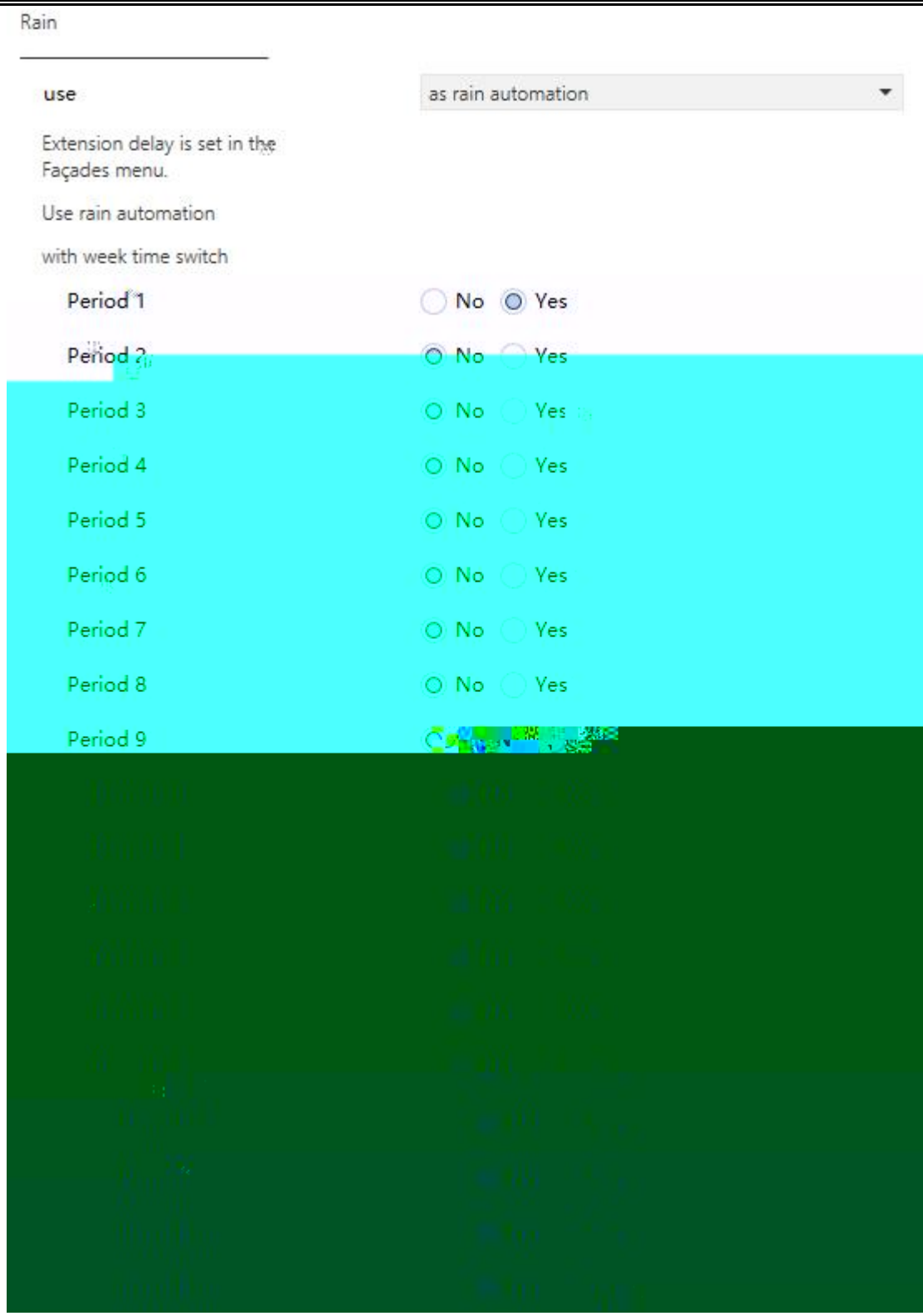

Wind alarm
use
as wind alarm per threshold value

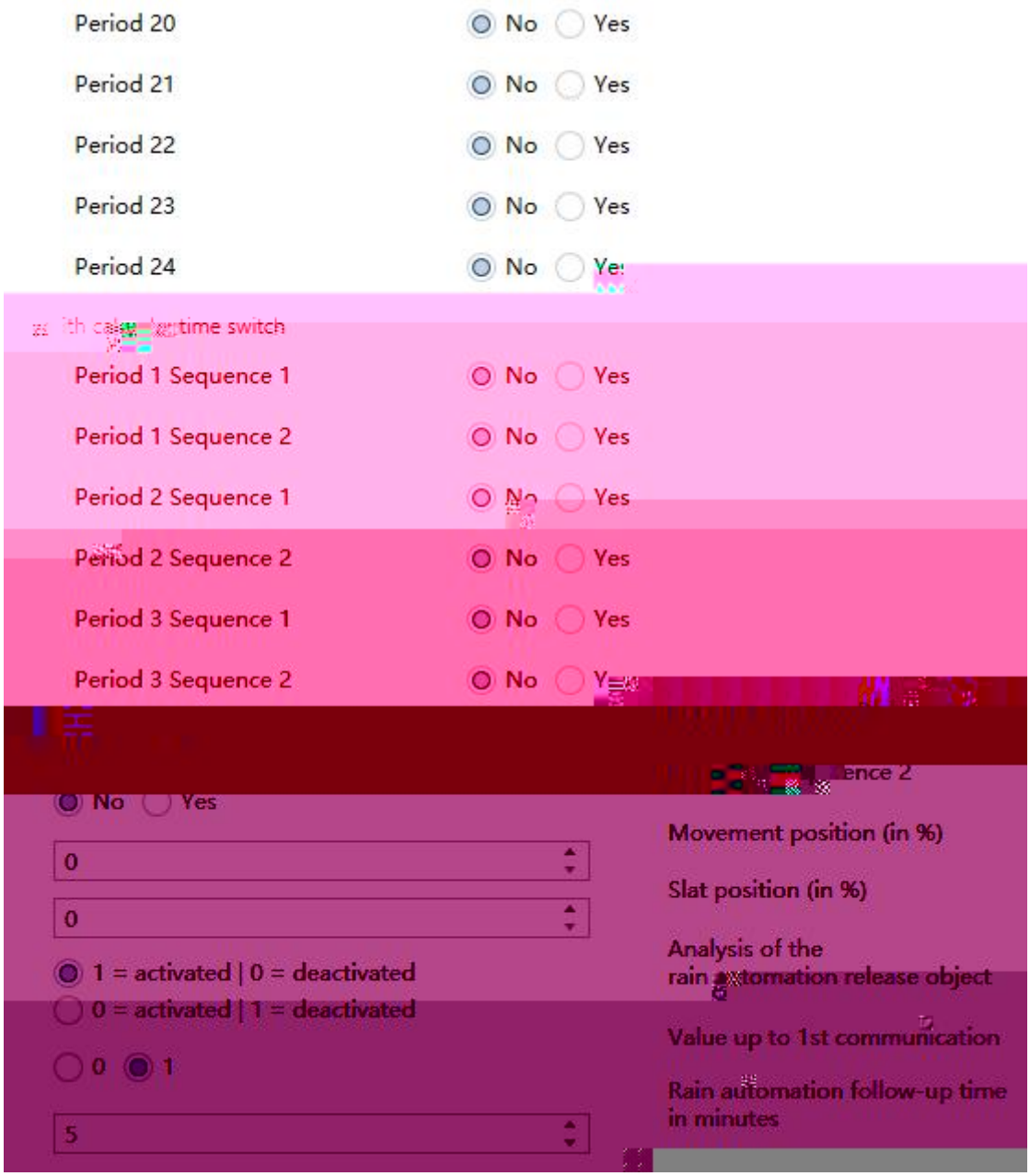


4.25.1(2) Wind alarm



4.25.1(3) rost alarm


Rain
use
as rain automation
Extension delay is set in the Façades menu.
Use rain automation
with week time switch
Period 1
No
Yes
Period 2
No
Yes
Period 3
No
Yes
Period 4
No
Yes
Period 5
No
Yes
Period 6
No
Yes
Period 7
No
Yes
Period 8
No
Yes
Period 9


Period 20 No Yes
Period 21 No Yes
Period 22 No Yes
Period 23 No Yes
Period 24 No Yes
time switch
Period 1 Sequence 1 No Yes
Period 1 Sequence 2 No Yes
Period 2 Sequence 1 No Yes
Period 2 Sequence 2 No Yes
Period 3 Sequence 1 No Yes
Period 3 Sequence 2 No Yes
No Yes
0
0
1 = activated | 0 = deactivated
0 = activated | 1 = deactivated
0 1
5
Movement position (in %)
Slat position (in %)
Analysis of the
tomation release object
Value up to 1st communication
Rain automation follow-up time
in minutes

4.25.1(4) Rain

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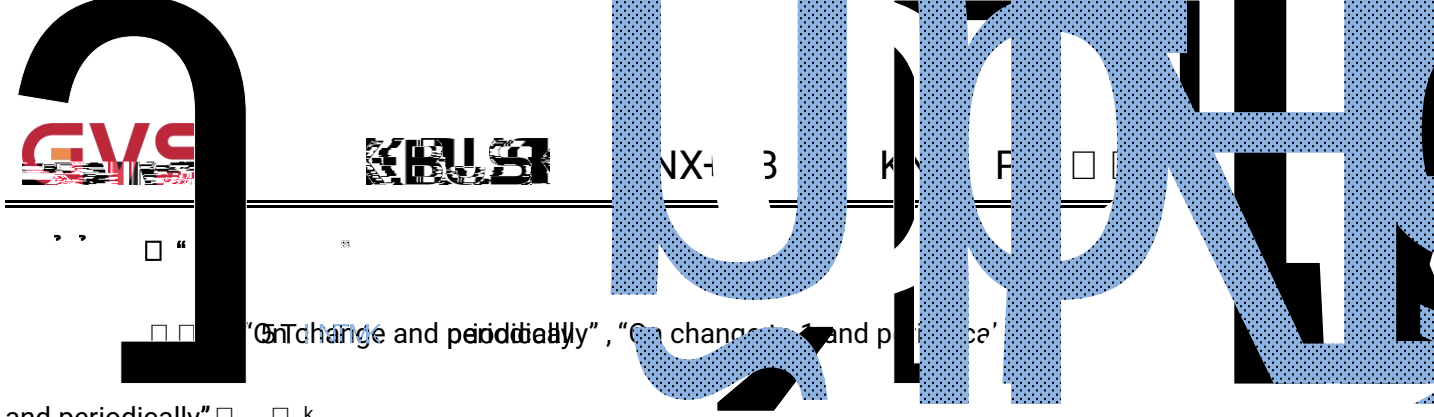
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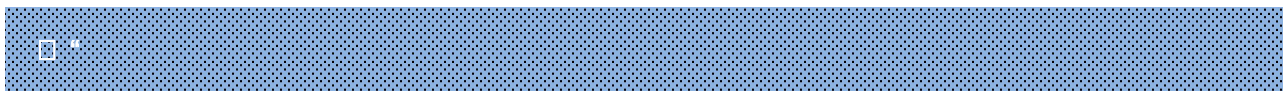
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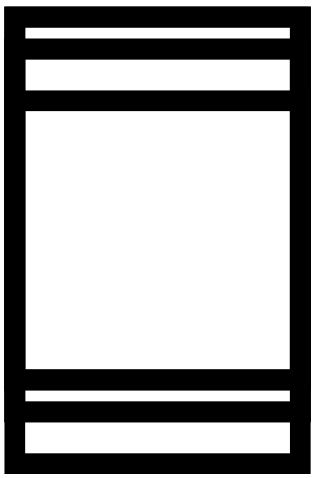
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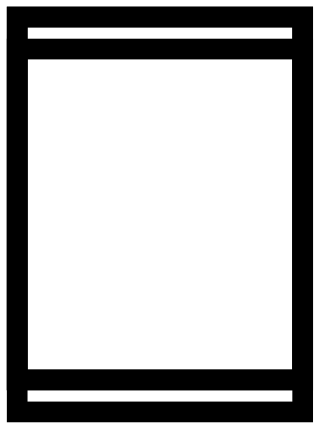
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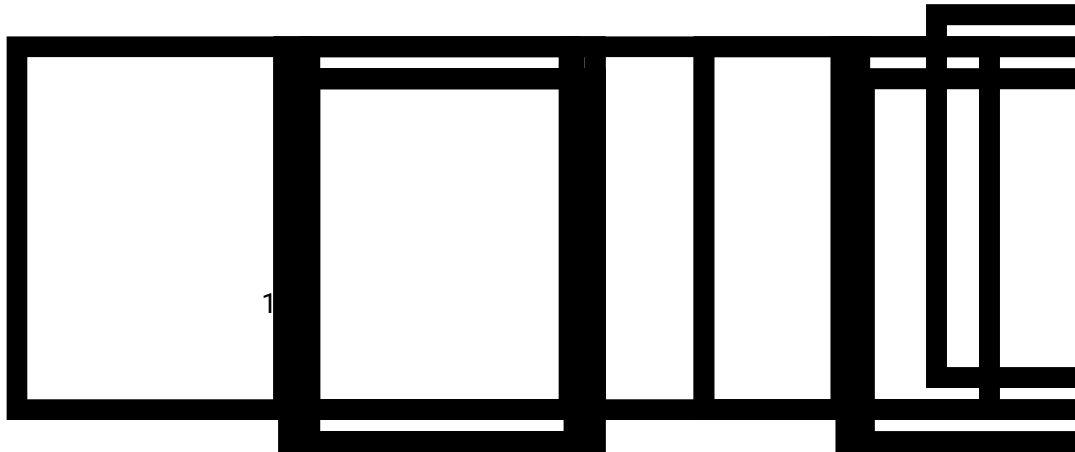
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"week timer" "month timer" □□ x □□□□□ 4.27 Weekly timer and □□ 4.2 Calendar timer□ k

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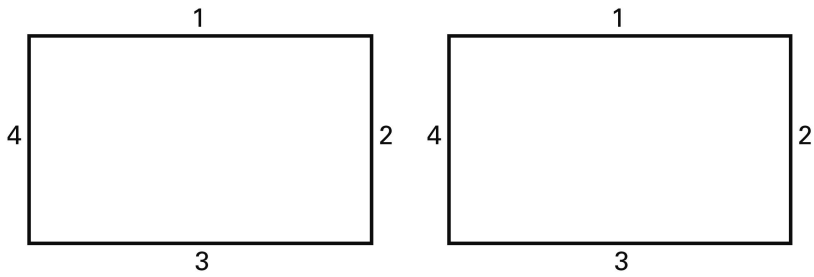
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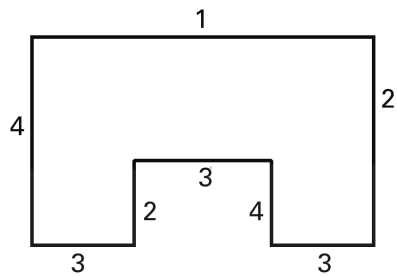
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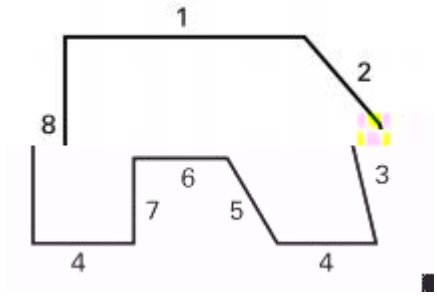
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3

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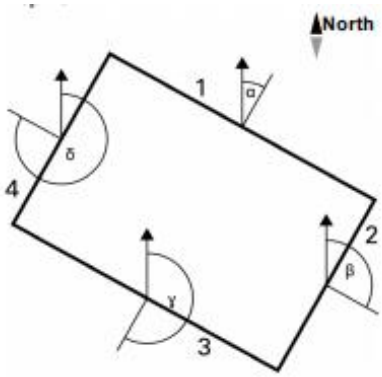
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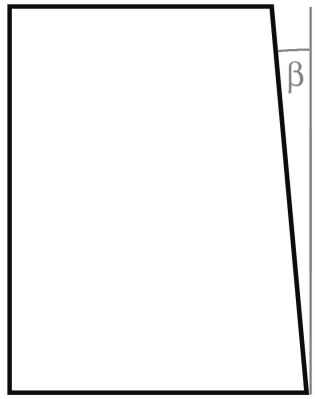


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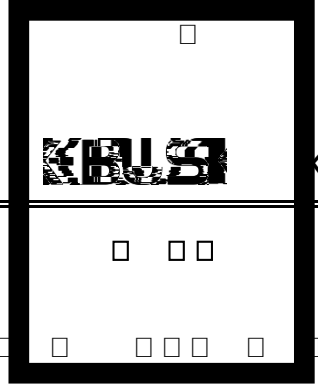
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after slat move command 1 % " Û □□ □□□□ 1 - k

1 % □ Ï □□ □ □□ □□ α□ 1 -□□ 1 □ k



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after slat move command % ” Û □ □ k □ □ □ - k

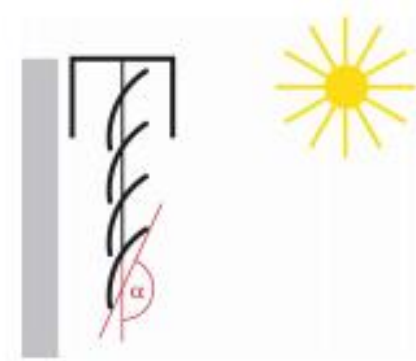
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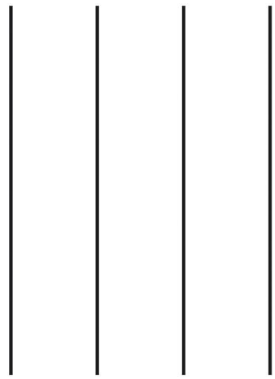


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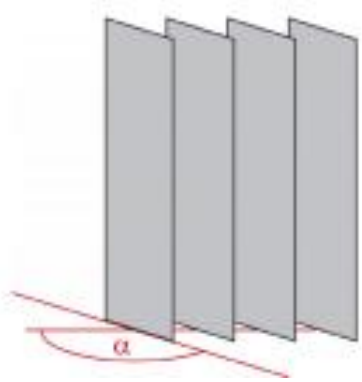
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KNX+

64	acade X channel Name	□ □	□ □ □ □ □ □ □ □ □ □ □ k □ □ □ k
65	acade X channel (1: | :-)	□ □	□ □ □ Û 1 □ □ □ Û □ □ k
651	acade X channel Status text		□ □ □ □ □ □ □ □ □ □ k
652	acade X channel Status-bit text		□ □ □ □ □ □ □ □ □ □ □ k
653	acade X channel Status-bit condition		□ □ □ □ □ □ □ □ □ □ k
654	acade X channel Delay		□ □ □ □ □ □ □ □ □ □ □ □ □ □ k□ □ □ □ □ □ □ □ □ □ □ □+ □ □ □ □ Ï k
655	acade X channel Status-bit selection (1: | :-)		□ □ □ □ □ □ □ □ □ □ □ □ □ k

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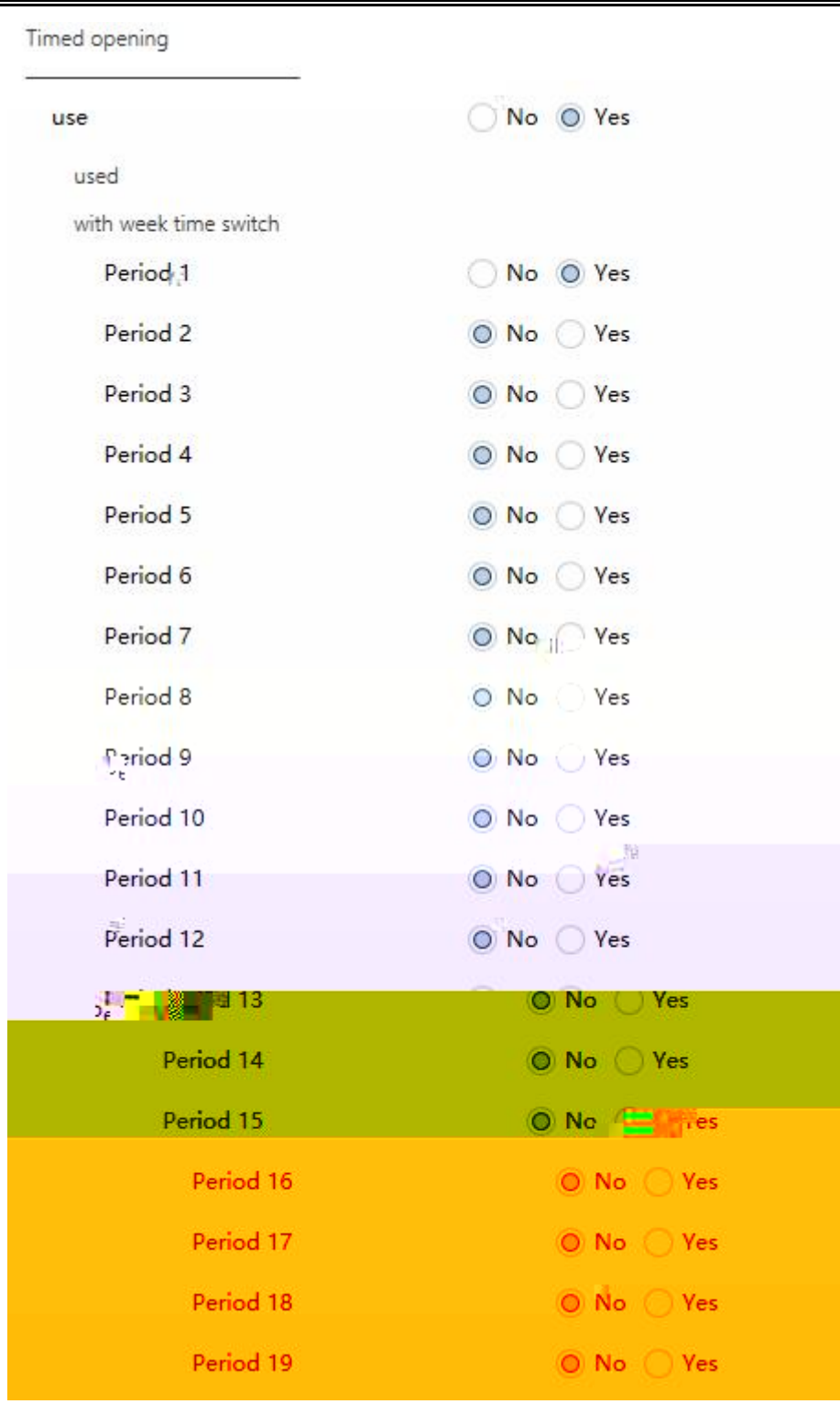
□ □ 733“ " acade 1 channel status-bit text ”Û □ □ □□□ □ 652“ acade

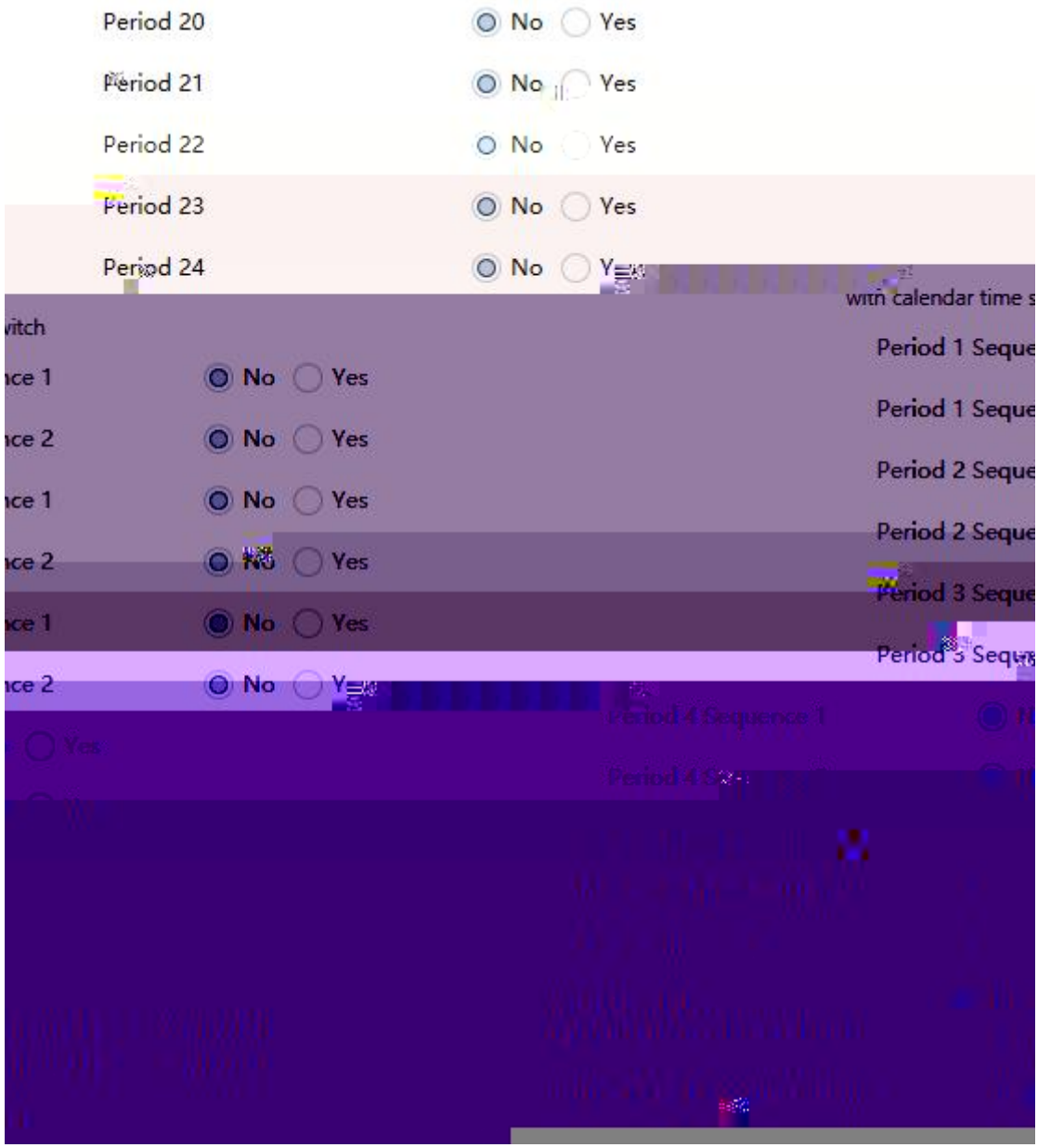
X channel status bit text ” □ k

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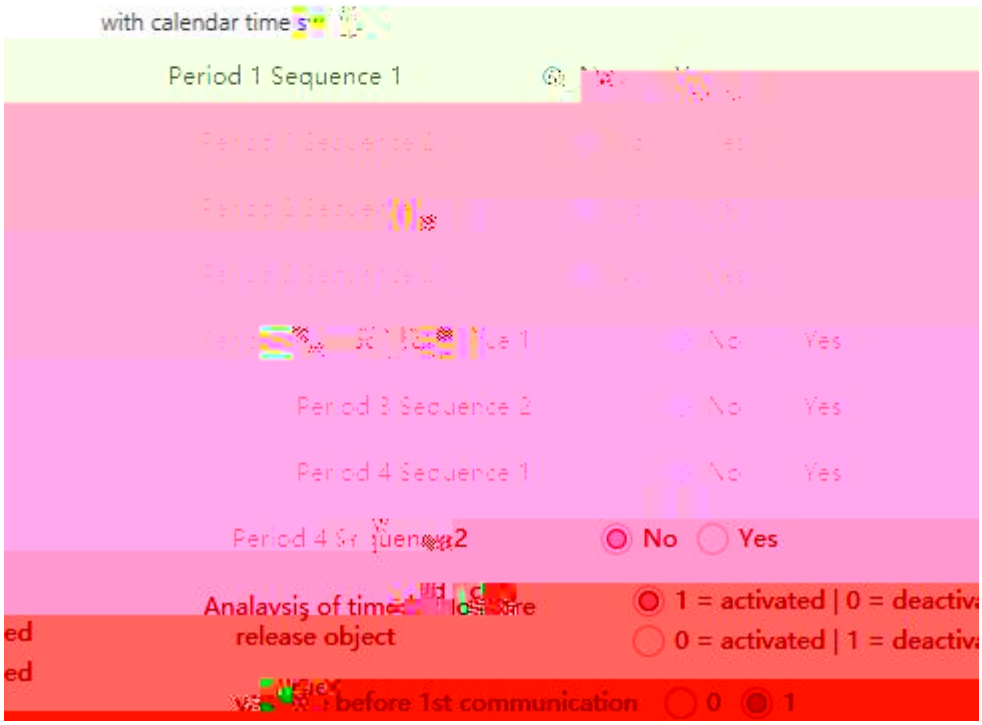

Timed opening
use
No Yes
used
with week time switch
Period 1
No Yes
Period 2
No Yes
Period 3
No Yes
Period 4
No Yes
Period 5
No Yes
Period 6
No Yes
Period 7
No Yes
Period 8
No Yes
Period 9
No Yes
Period 10
No Yes
Period 11
No Yes
Period 12
No Yes
Period 13
No Yes
Period 14
No Yes
Period 15
No Yes
Period 16
No Yes
Period 17
No Yes
Period 18
No Yes
Period 19
No Yes

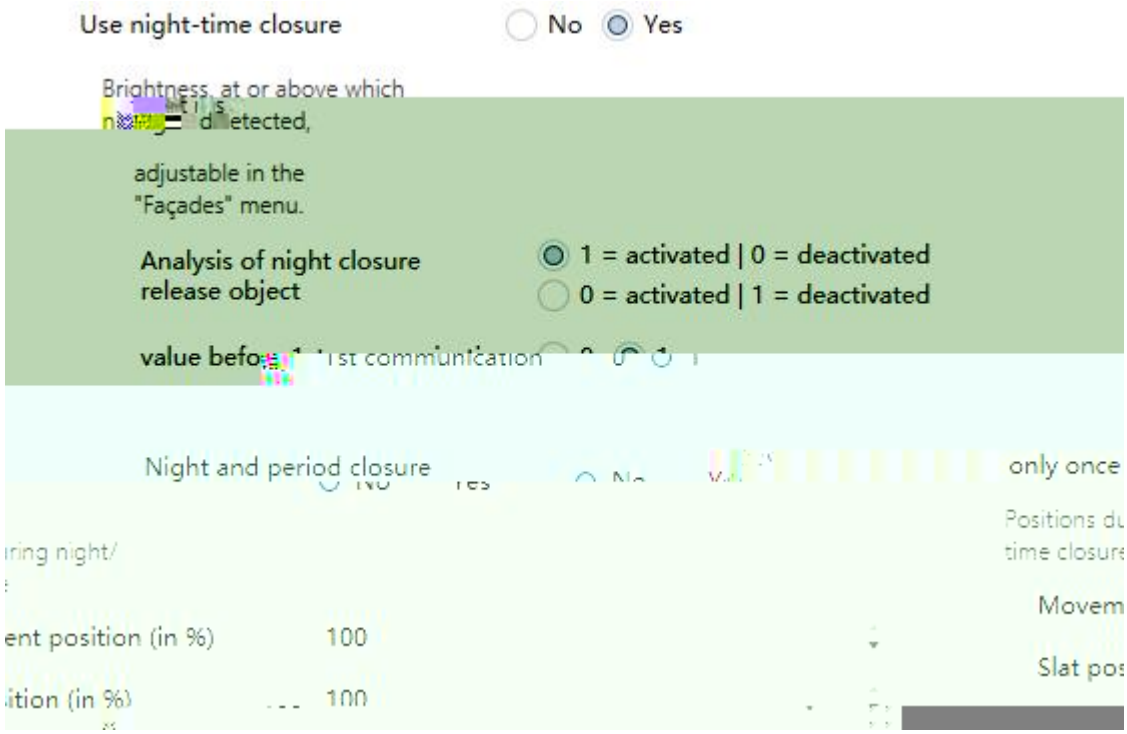


4.25.2(1) Timed opening


Timed and ri sure
use
No Yes
Use timed closure
No Yes
used
with week time switch
Period 1
No Yes
Period 2
No Yes
No Yes
Period 4
No Yes
Period 5
No Yes
Period 6
No
Period 7
No Yes
Period 8
No Yes
Period 9
No Yes
Period 10
No Yes
No Yes
Period 12

Period 19	No	Yes
Period 20	No	Yes
Period 21	No	Yes
Period 22	No	Yes
Period 23	No	Yes
Period 24	No	Yes

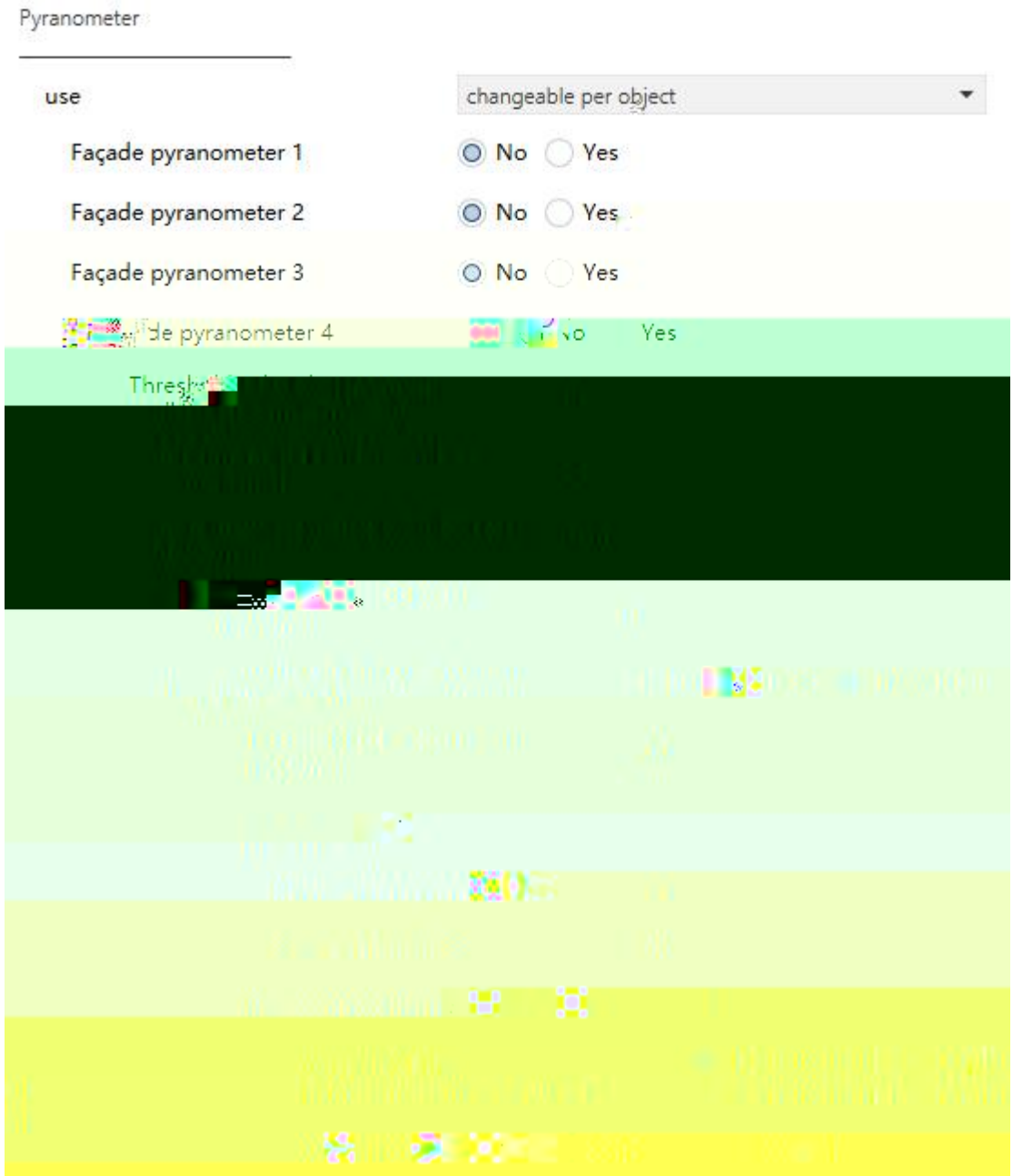




4.25.2(2) Time and night closure



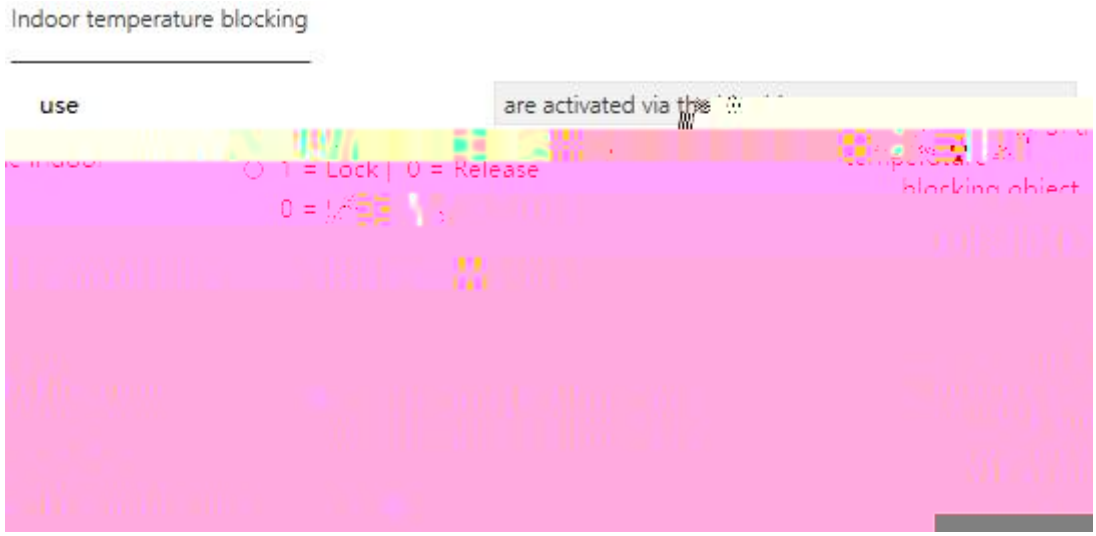
4.25.2(3) Heat protection



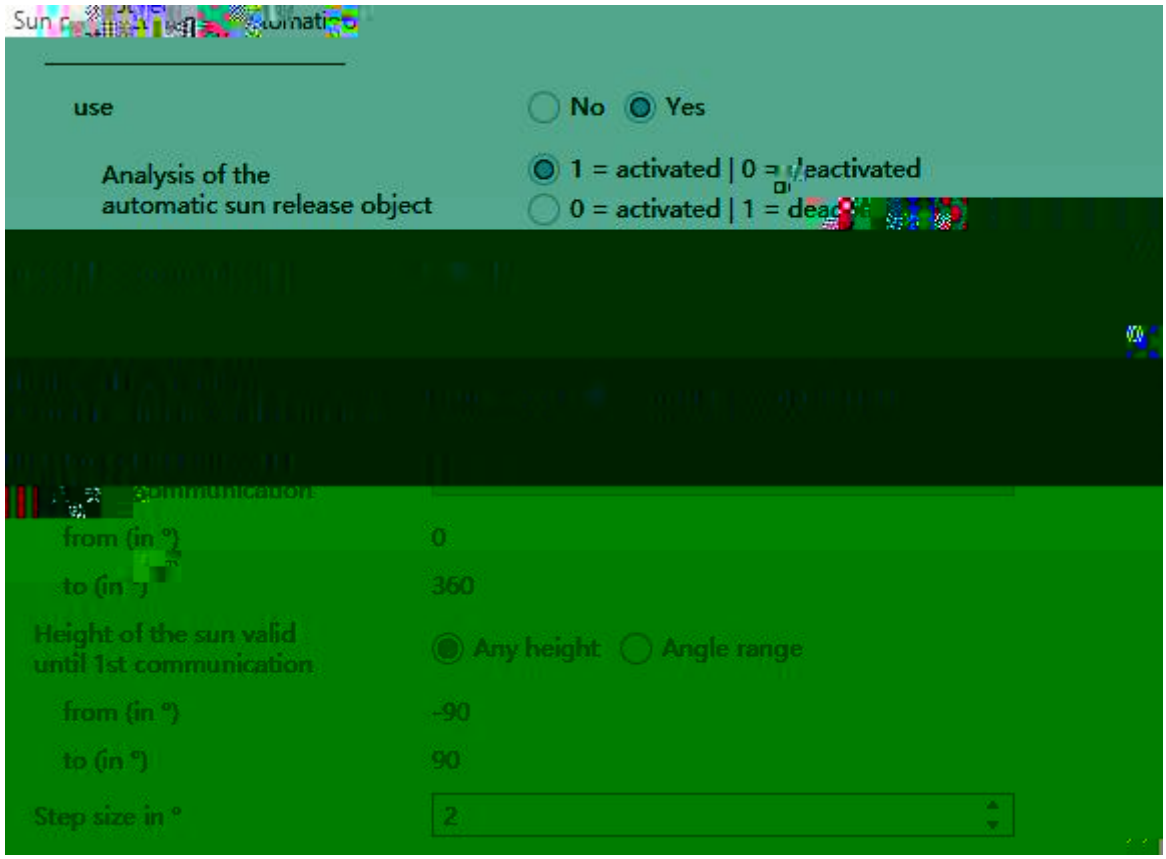
4.25.2(4) Pyranometer



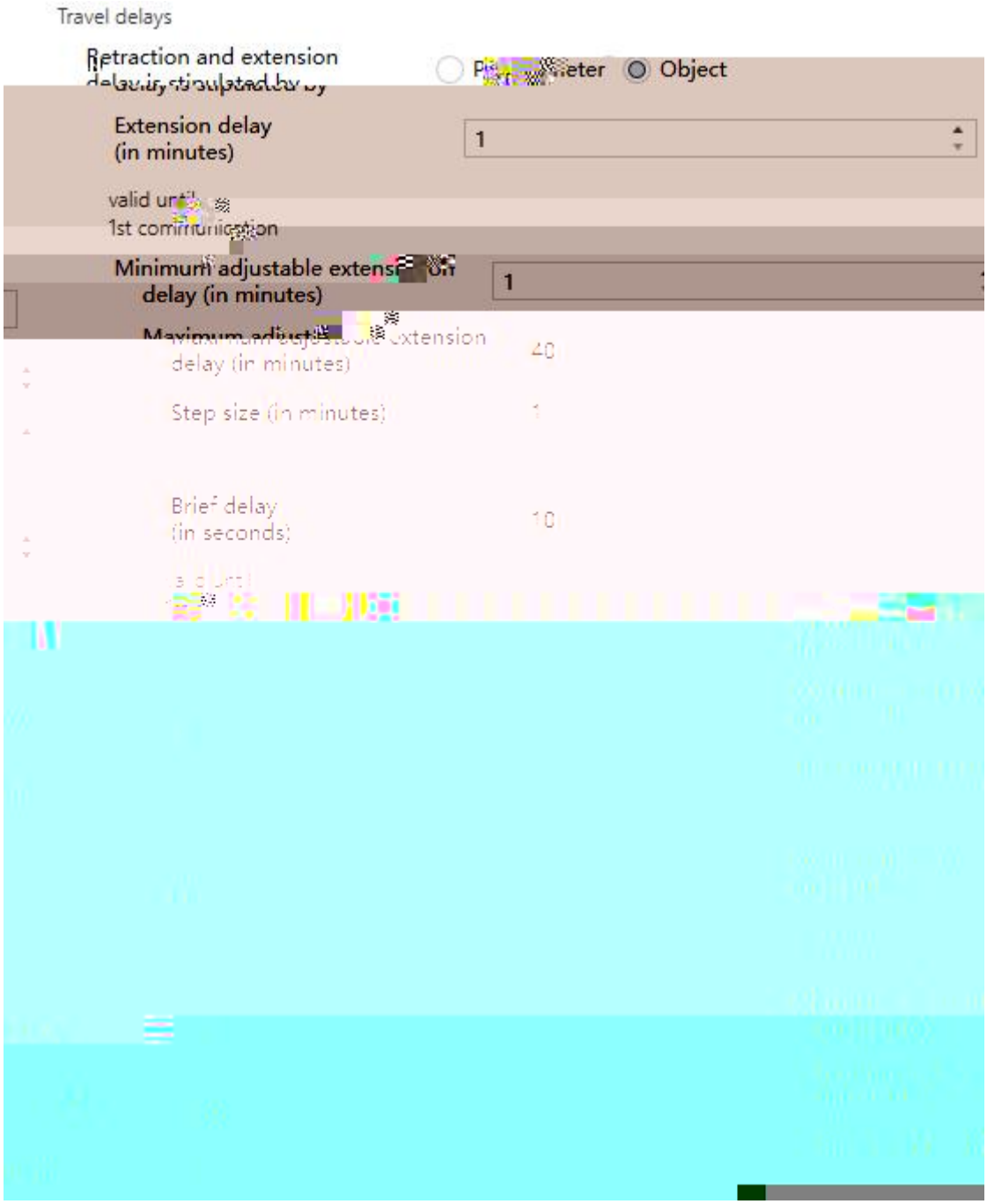
4.25.2(5) Rain automation

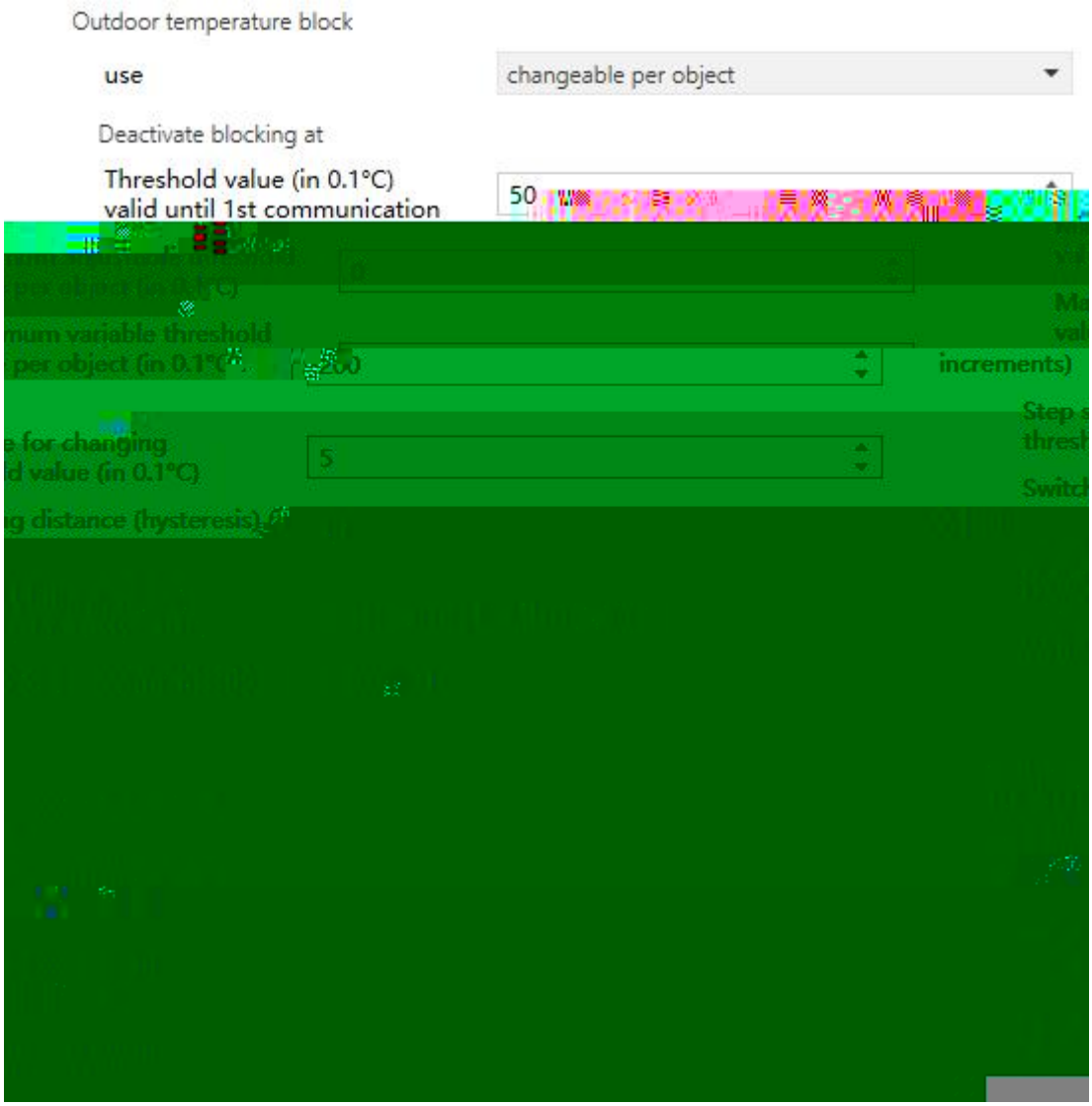


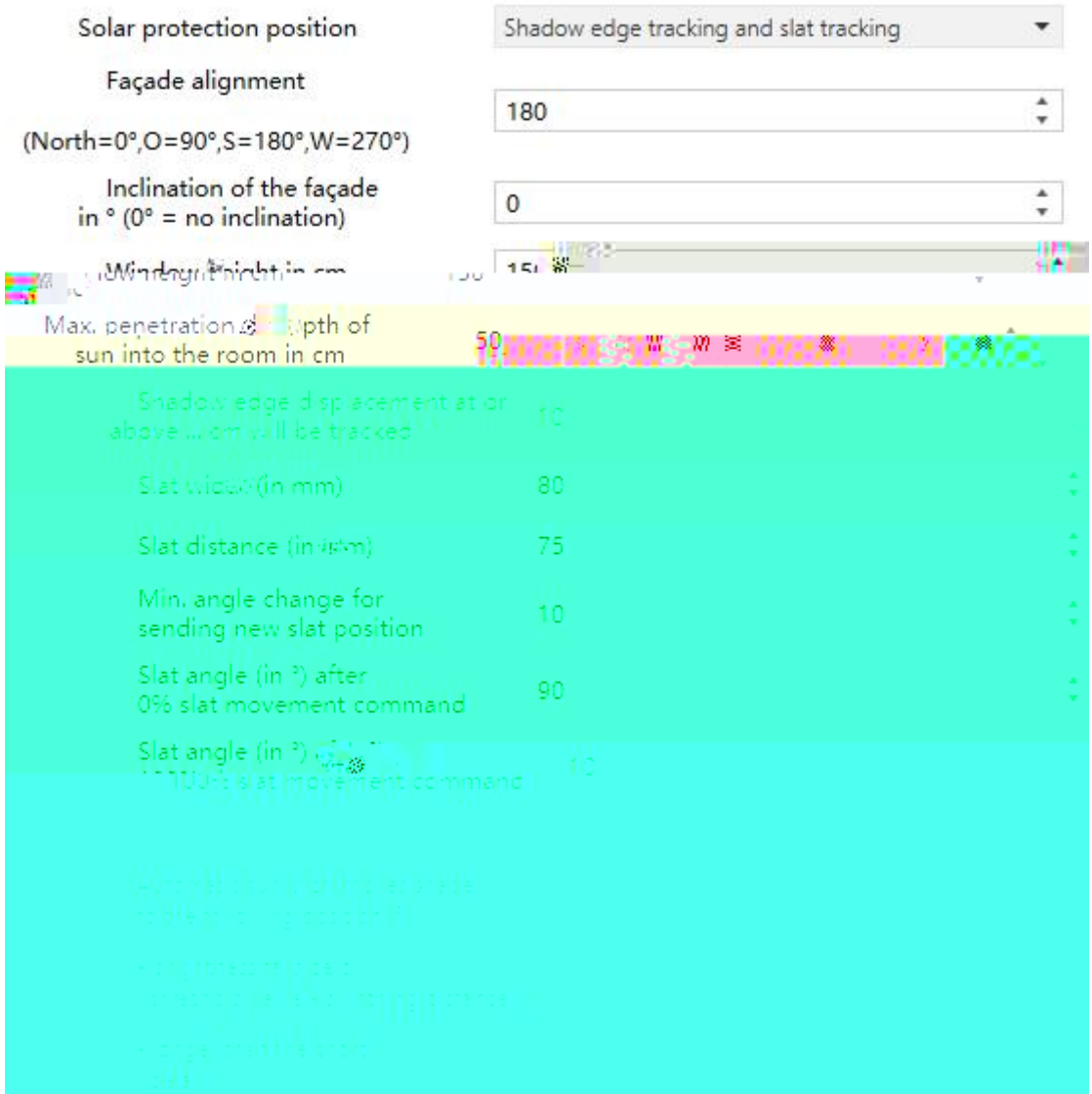
4.25.2(6) Indoor temperature blocking

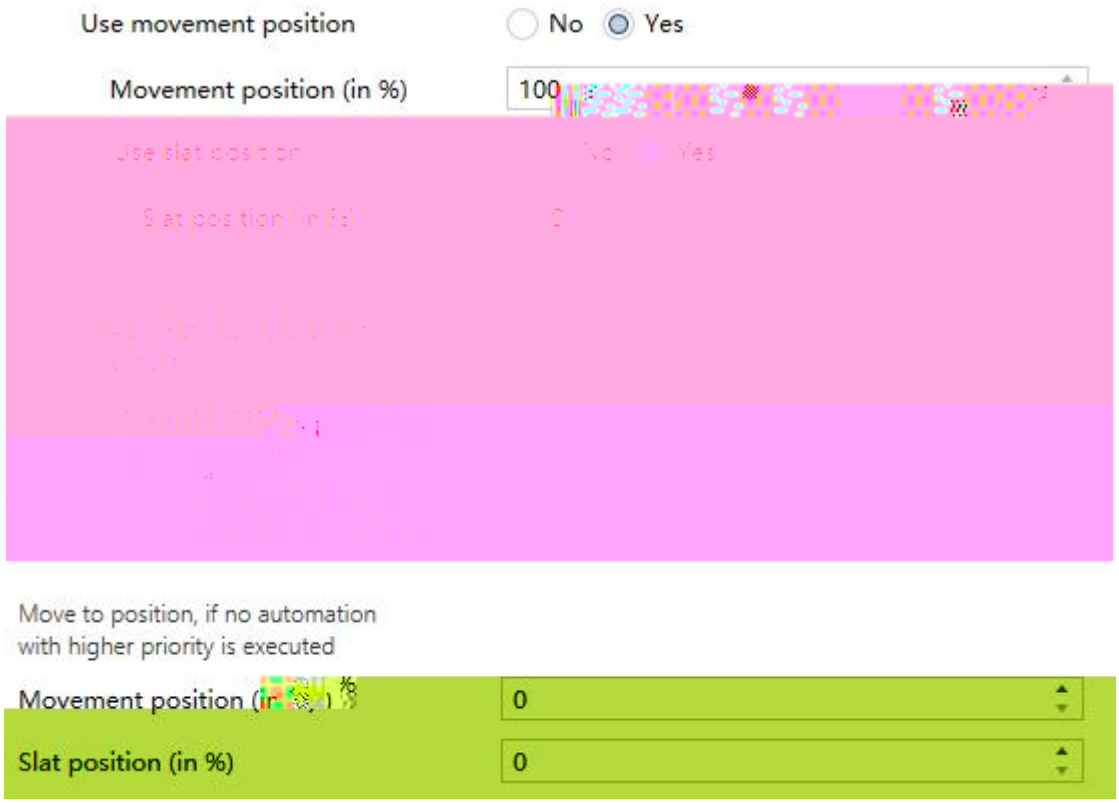

use
No
Yes
Analysis of the automatic sun release object
1 = activated | 0 = deactivated
0 = activated | 1 = deactivated
from (in °)
0
to (in °)
360
Height of the sun valid until 1st communication
Any height
Angle range
from (in °)
-90
to (in °)
90
Step size in °
2


Brightness sensor selection
Internal sensors (maximum value)
Preset threshold value for brightness per
Parameter
Communication object


Travel delays
Retraction and extension delay is stipulated by
Parameter
Object
Extension delay (in minutes)
1
valid until
1st communication
Minimum adjustable extension delay (in minutes)
1
Maximum adjustable extension delay (in minutes)
40
Step size (in minutes)
1
Brief delay (in seconds)
10


Outdoor temperature block
use
changeable per object
Deactivate blocking at
Threshold value (in 0.1°C)
valid until 1st communication
50
increments)
5


Solar protection position
Shadow edge tracking and slat tracking
Façade alignment
(North=0°,O=90°,S=180°,W=270°)
180
Inclination of the façade in ° (0° = no inclination)
0
Max. penetration depth of sun into the room in cm
50
Slat width (in mm)
80
Slat distance (in mm)
75
Min. angle change for sending new slat position
10
Slat angle (in °) after 0% slat movement command
90



4.25.2(7) Sun protection automation



4.25.2( ) acade status output

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□ “use time closure”□ “yes” □ □ k

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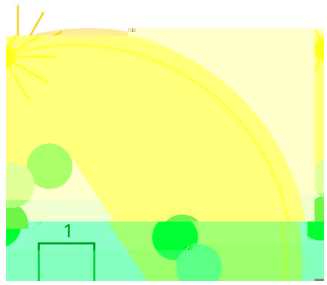
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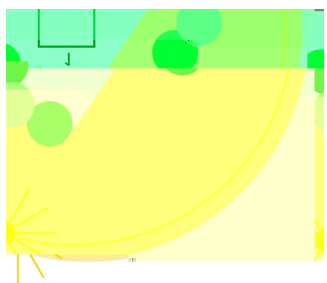
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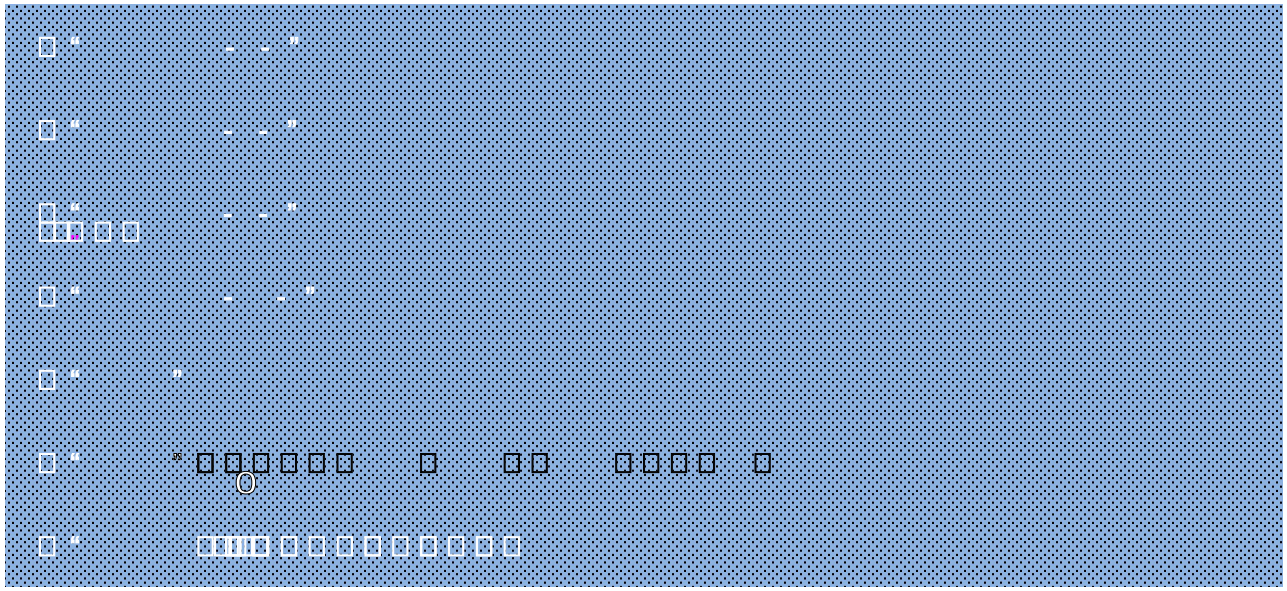
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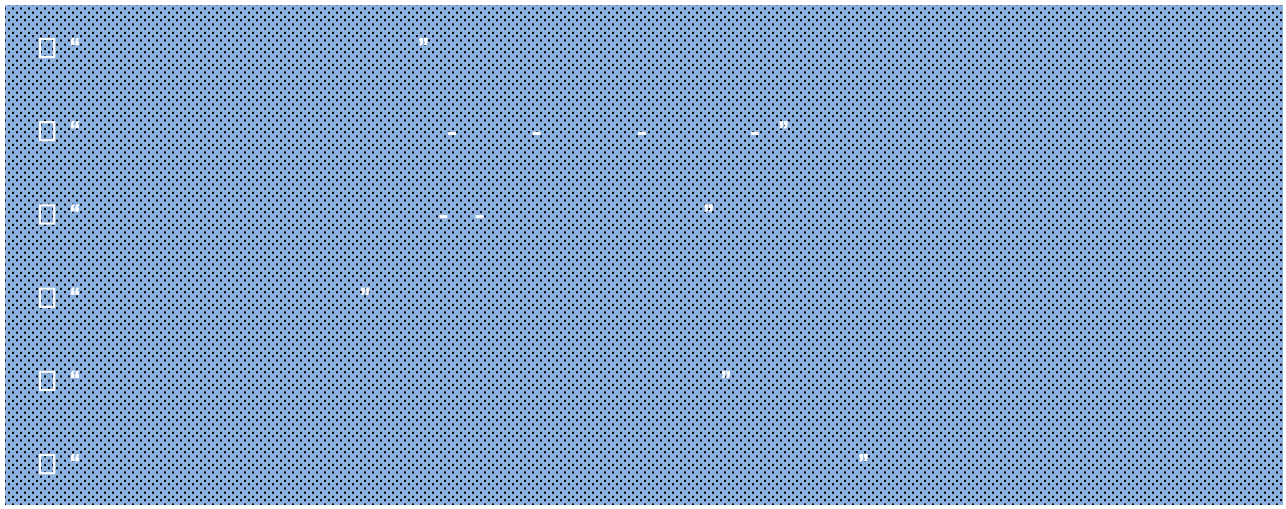
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" Solar protection position " " Without tracking "

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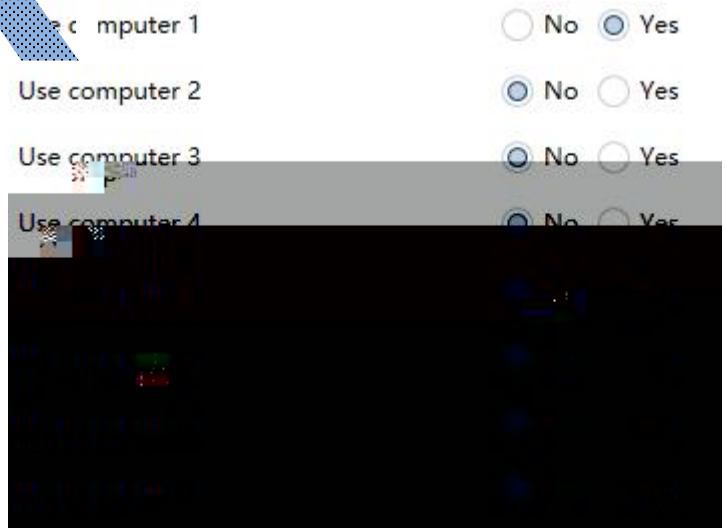
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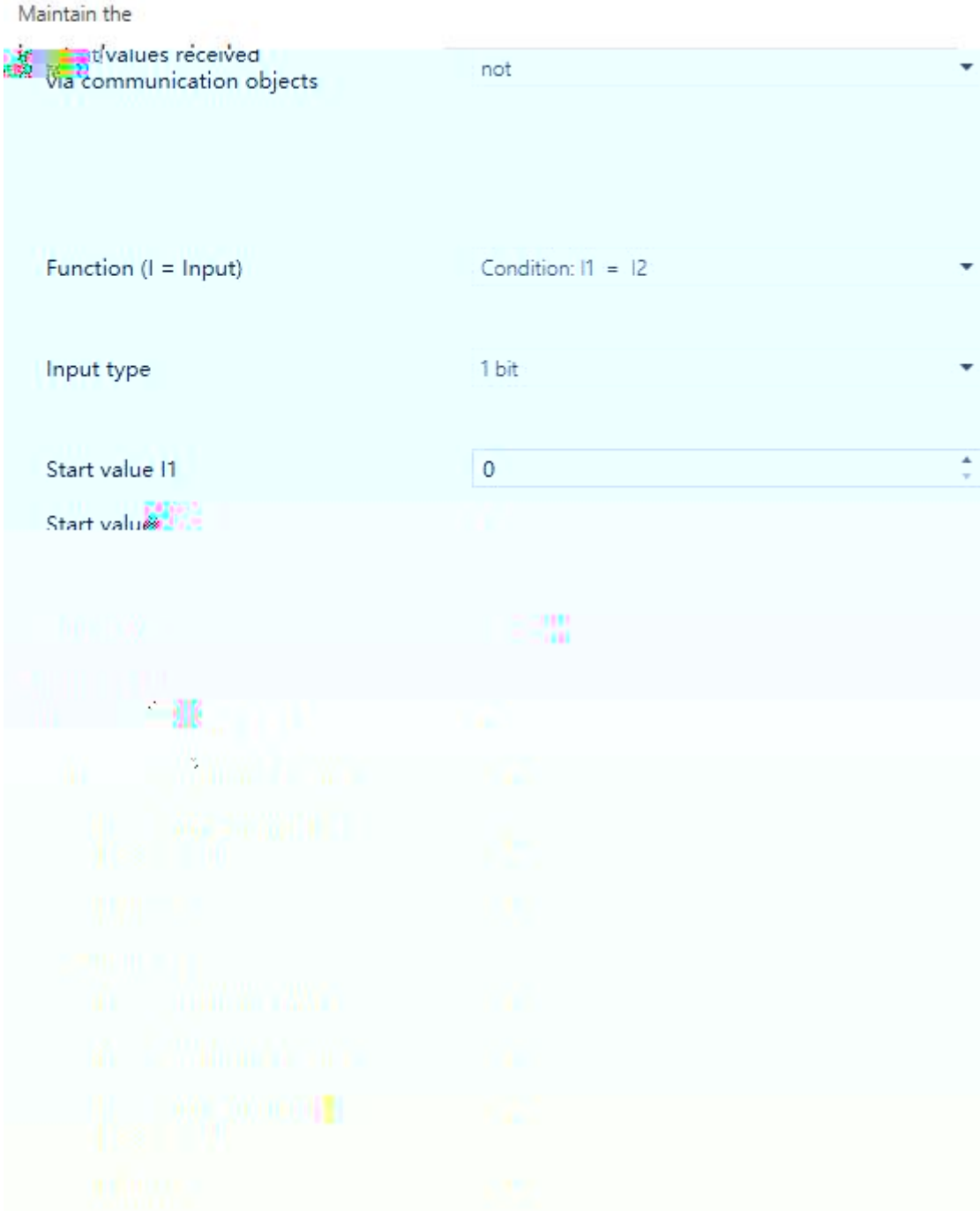
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4.26 “Computer”

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Maintain the
values received via communication objects
not
Function (I = Input)
Condition: I1 = I2
Input type
1 bit
Start value I1
0



4.26.1 □□□□□ “Computer 1+...+ ”

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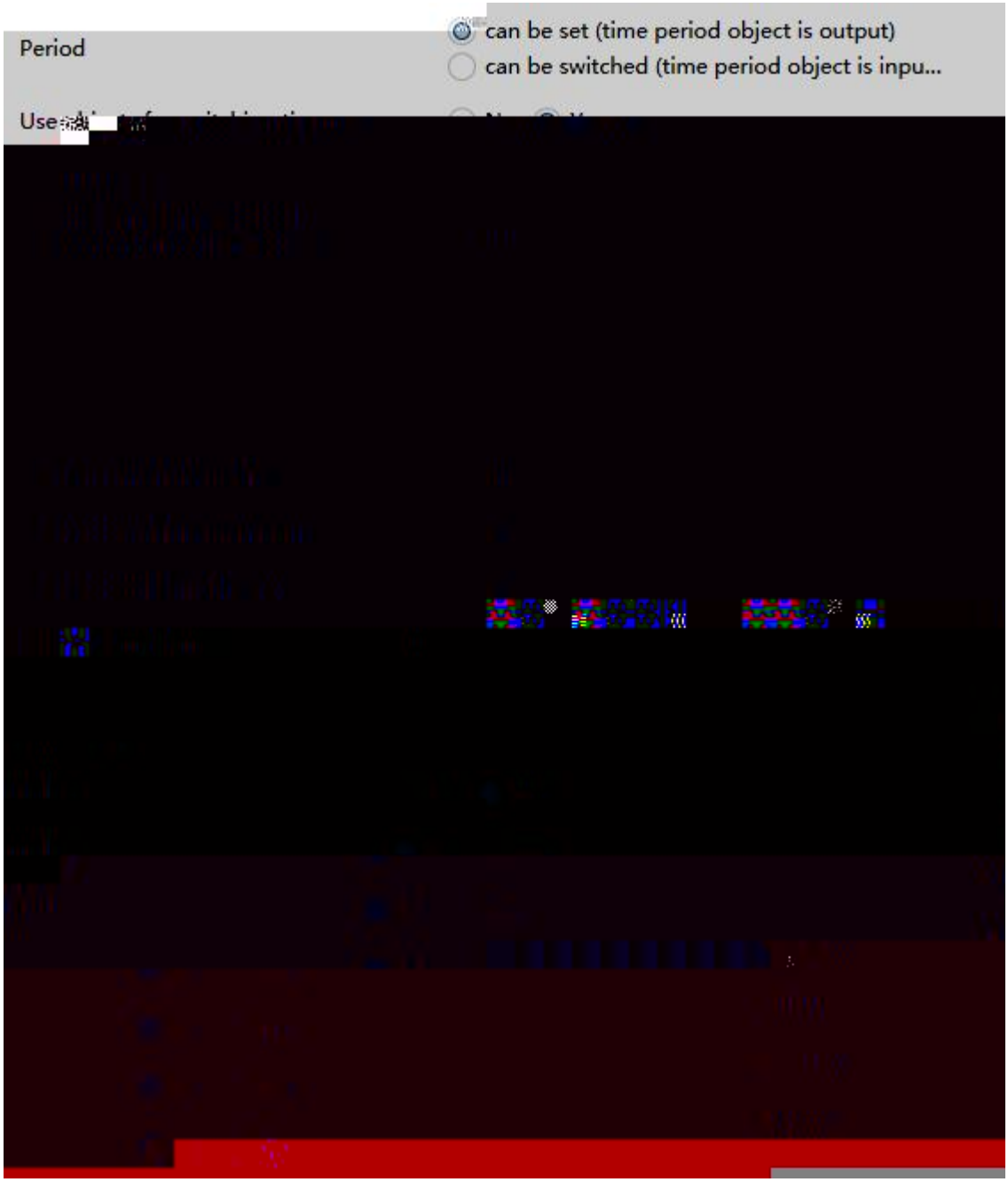
Use period 1	No Yes
Use period 2	No Yes
Use period 3	No Yes
Use period 4	No Yes
Use period 5	No Yes
Use period 6	No Yes
Use period 7	No Yes
Use period 8	No Yes
Use period 9	No Yes

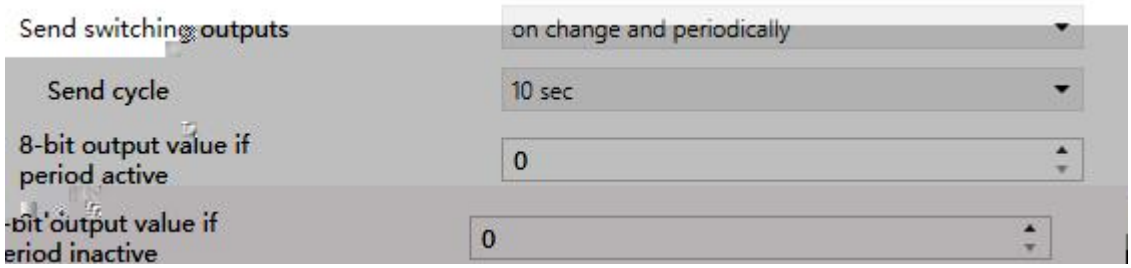


4.27 “Weekly time switch”

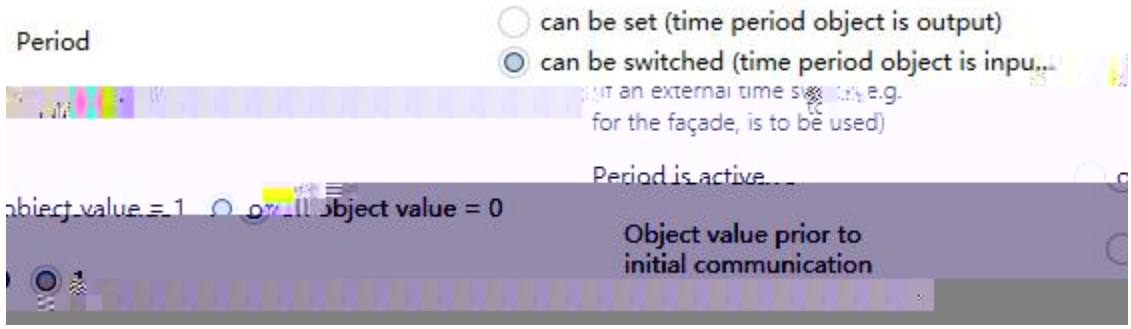
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Period
can be set (time period object is output)
can be switched (time period object is inpu...



4.12.1(1) □□□□□ “Period 1+...+24_can be set(time period object is output)”



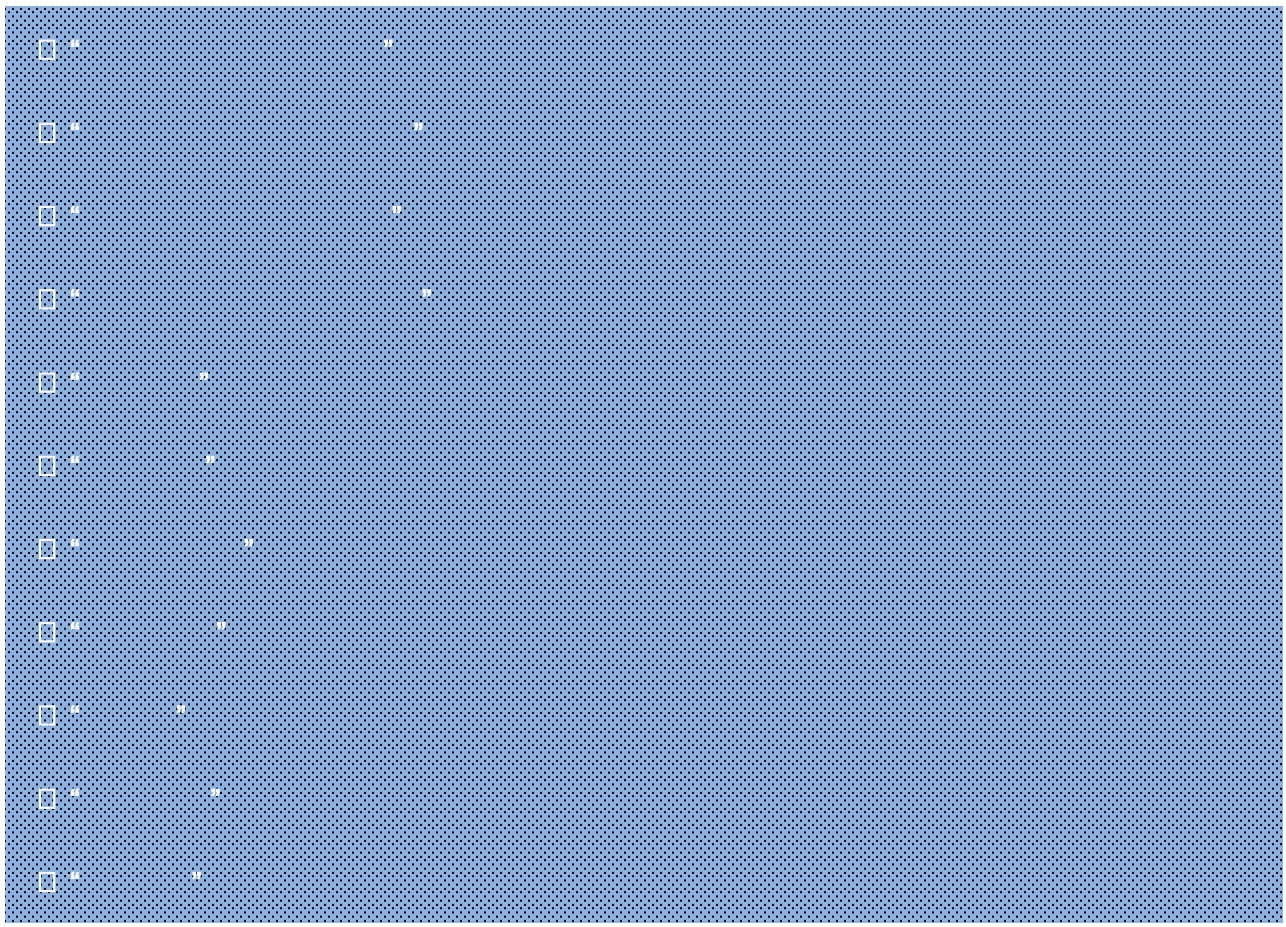
4.12.1(2) □□□

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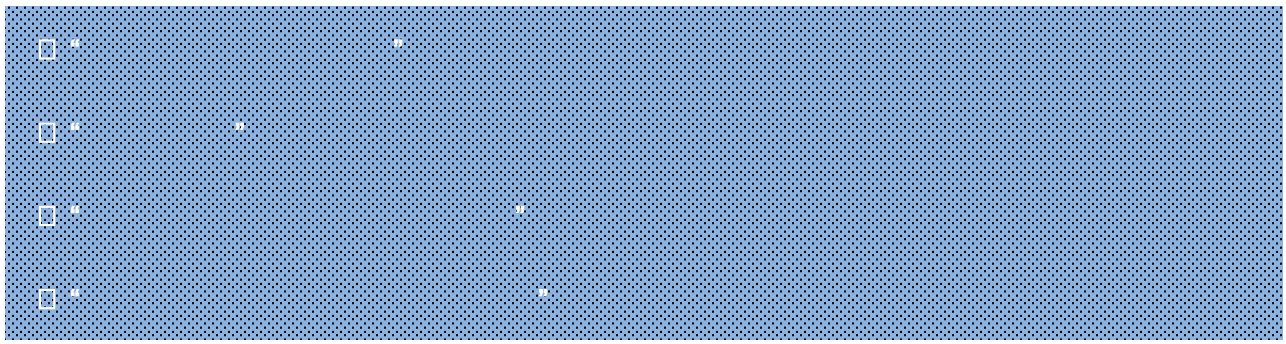
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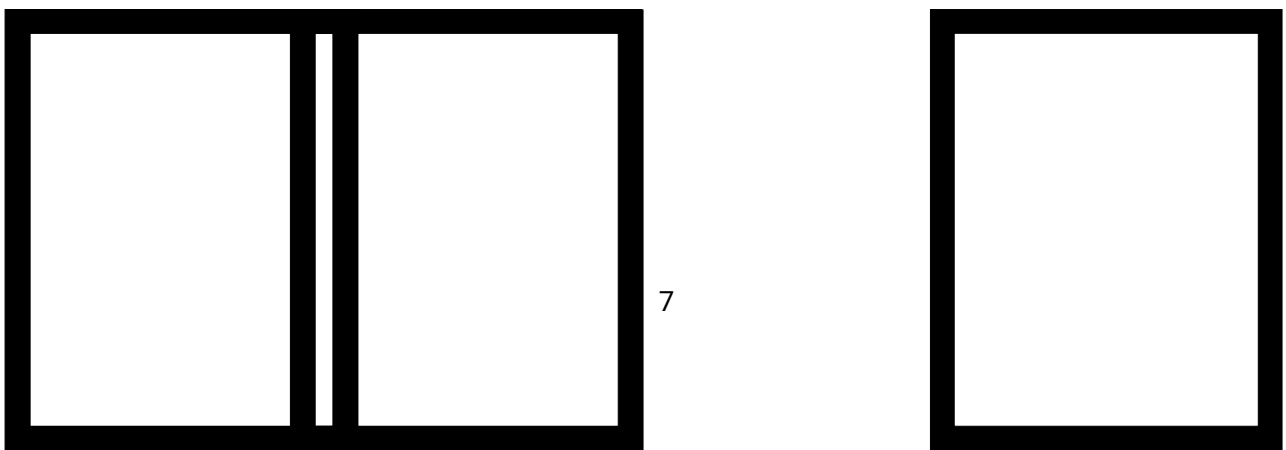
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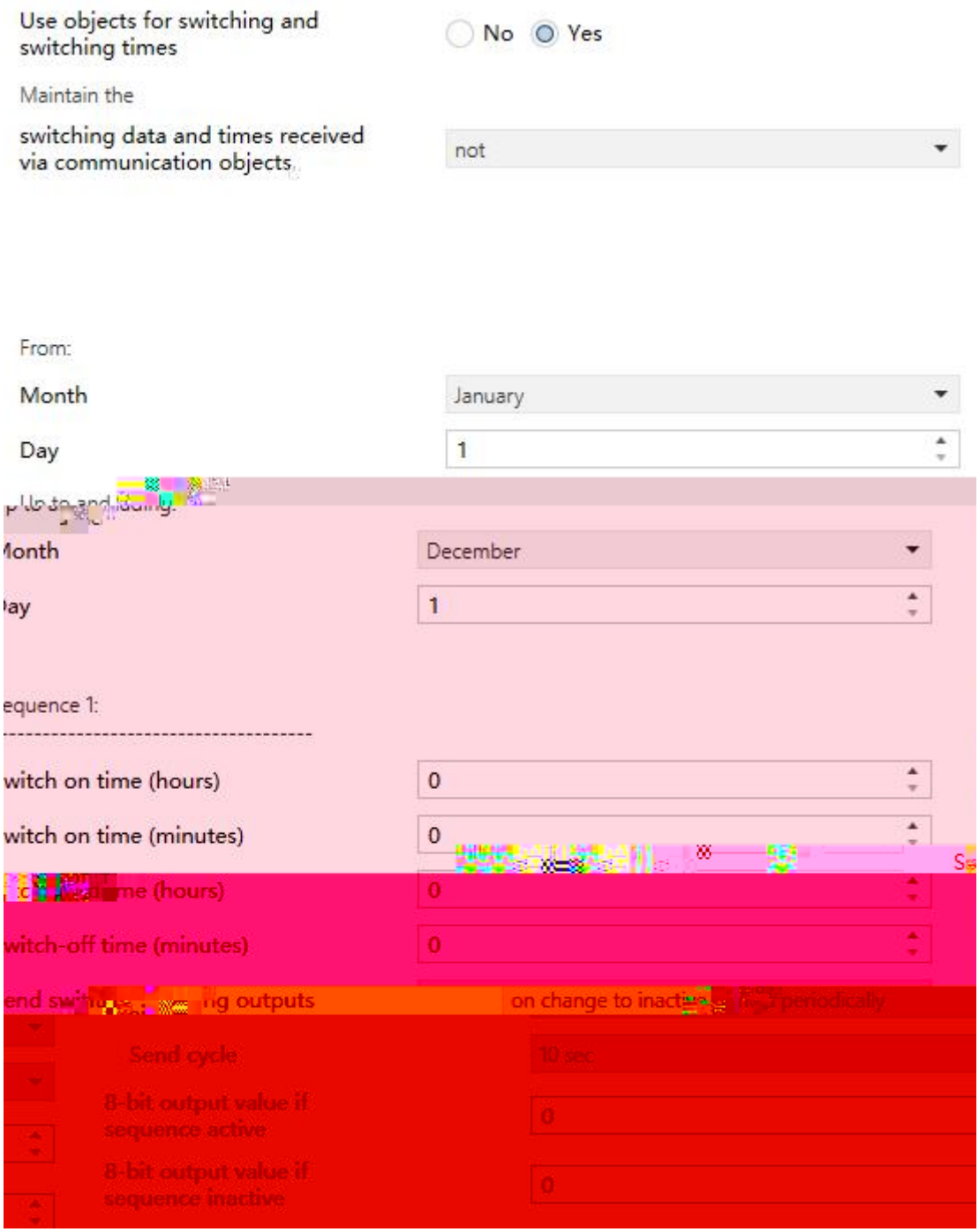
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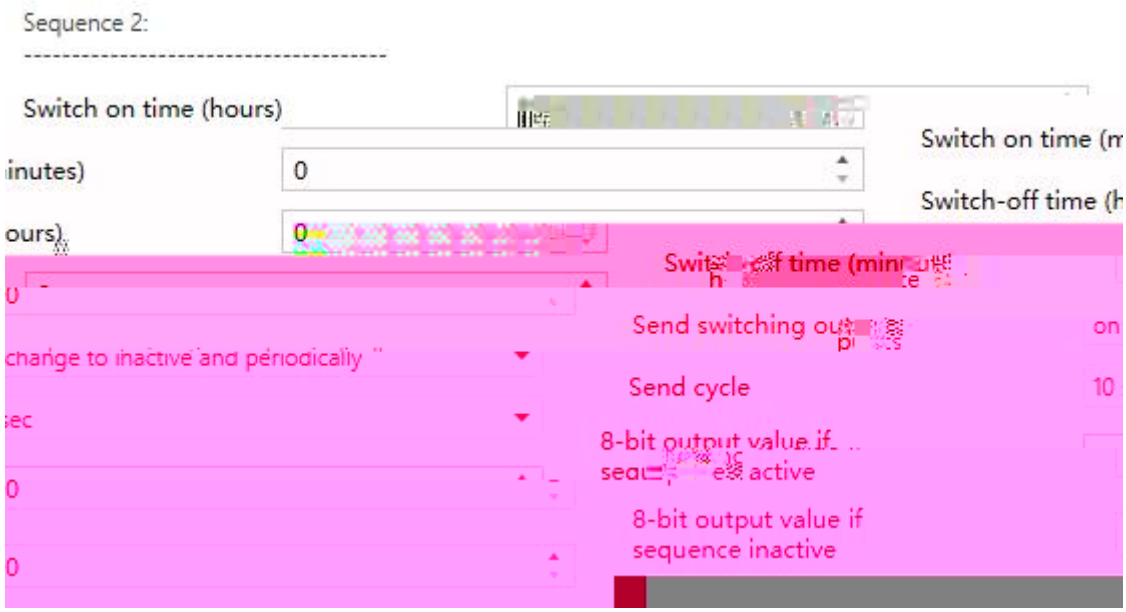
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Use objects for switching and switching times
No
Yes
Maintain the
switching data and times received via communication objects
not
From:
Month
January
Day
1
December
1
witch on time (hours)
0
witch on time (minutes)
0
witch-off time (hours)
0
witch-off time (minutes)
0
Send cycle
10 sec
8-bit output value if sequence active
0
8-bit output value if sequence inactive
0



4.11.1 □□□□□ “Period 1+2+3+4”

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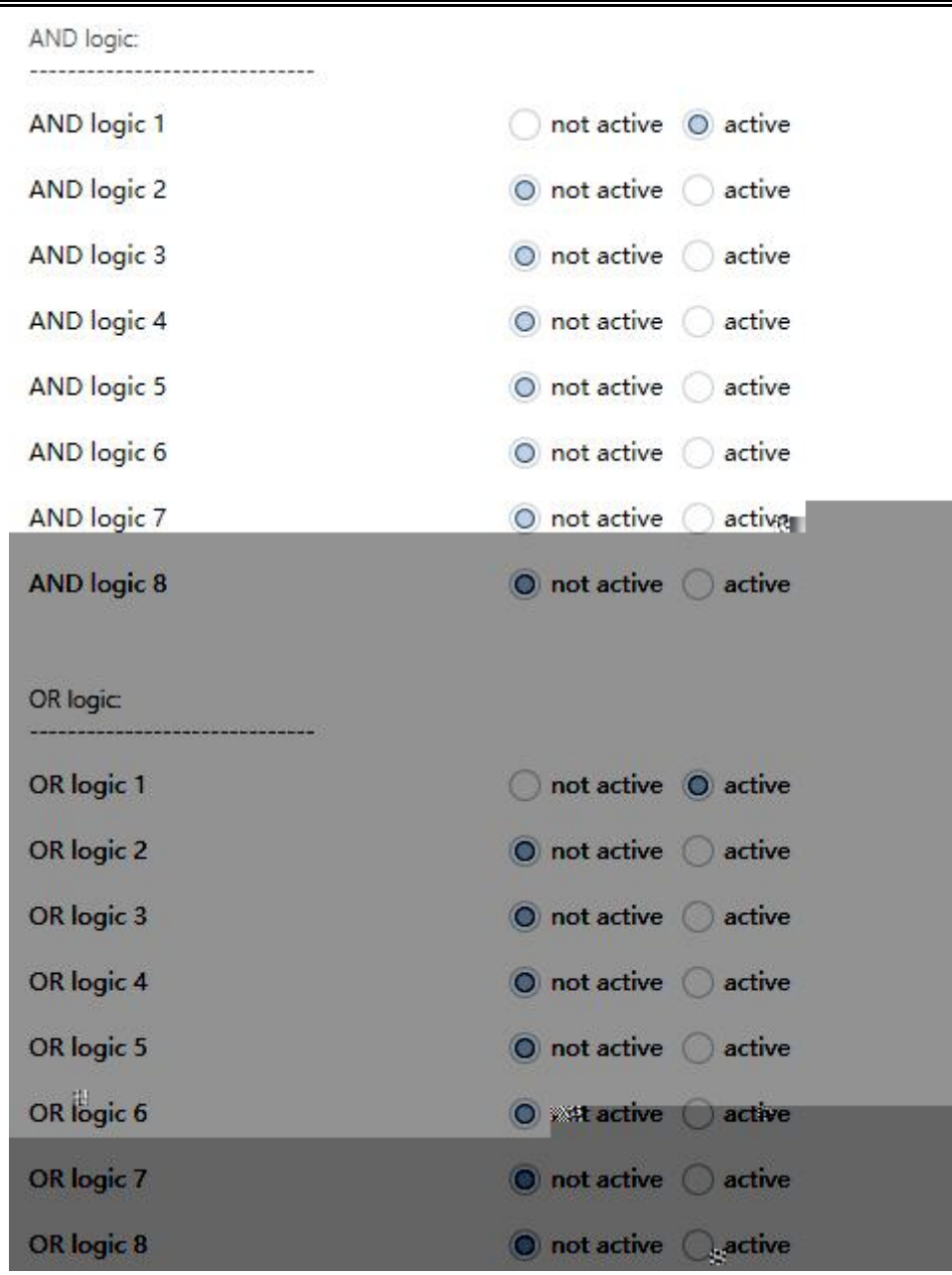
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AND logic:
AND logic 1 not active active
AND logic 2 not active active
AND logic 3 not active active
AND logic 4 not active active
AND logic 5 not active active
AND logic 6 not active active
AND logic 7 not active active
AND logic 8 not active active
OR logic:
OR logic 1 not active active
OR logic 2 not active active
OR logic 3 not active active
OR logic 4 not active active
OR logic 5 not active active
OR logic 6 not active active
OR logic 7 not active active
OR logic 8 not active active

4.2 □□□□□ “Logic”

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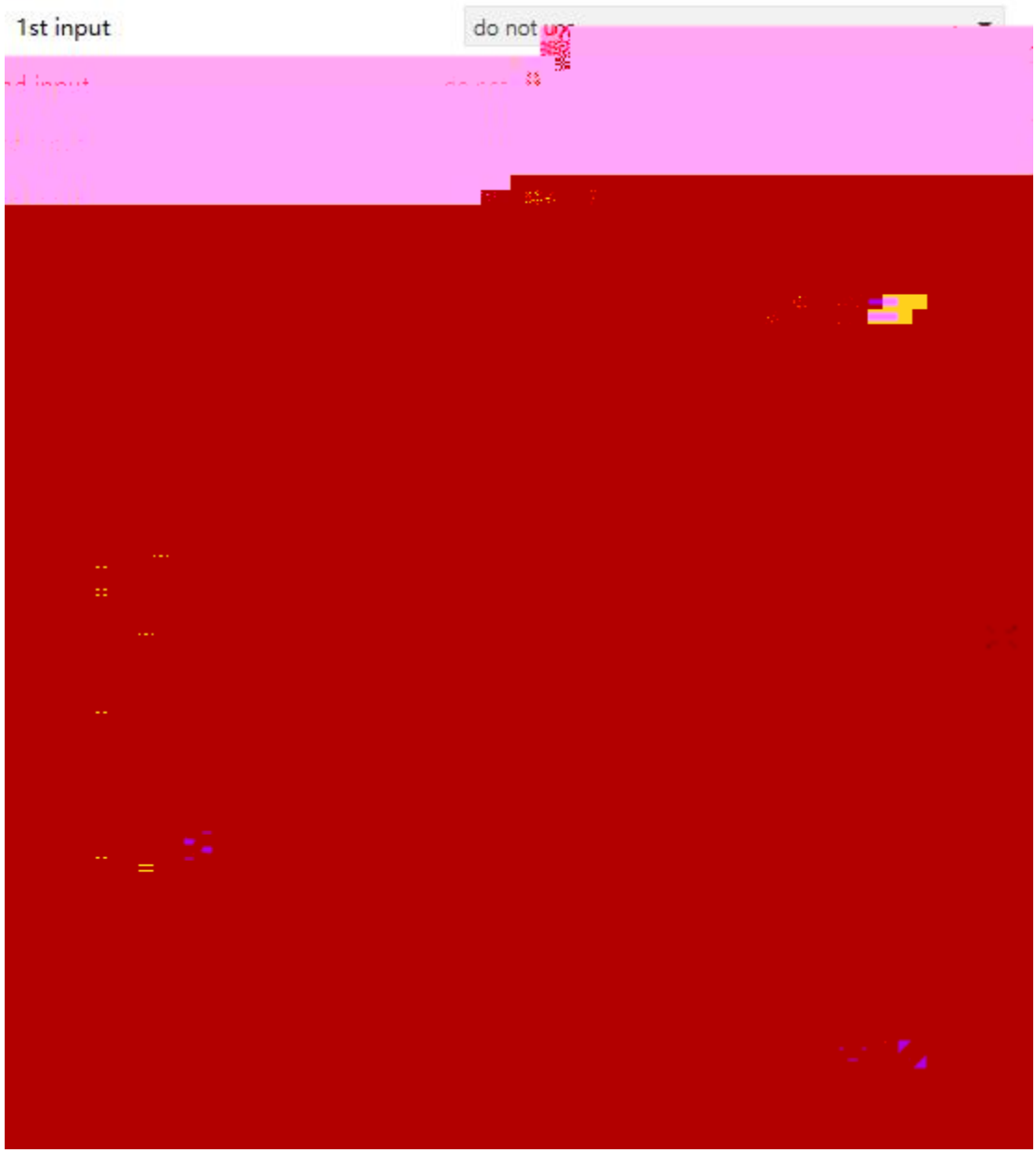
“ ”

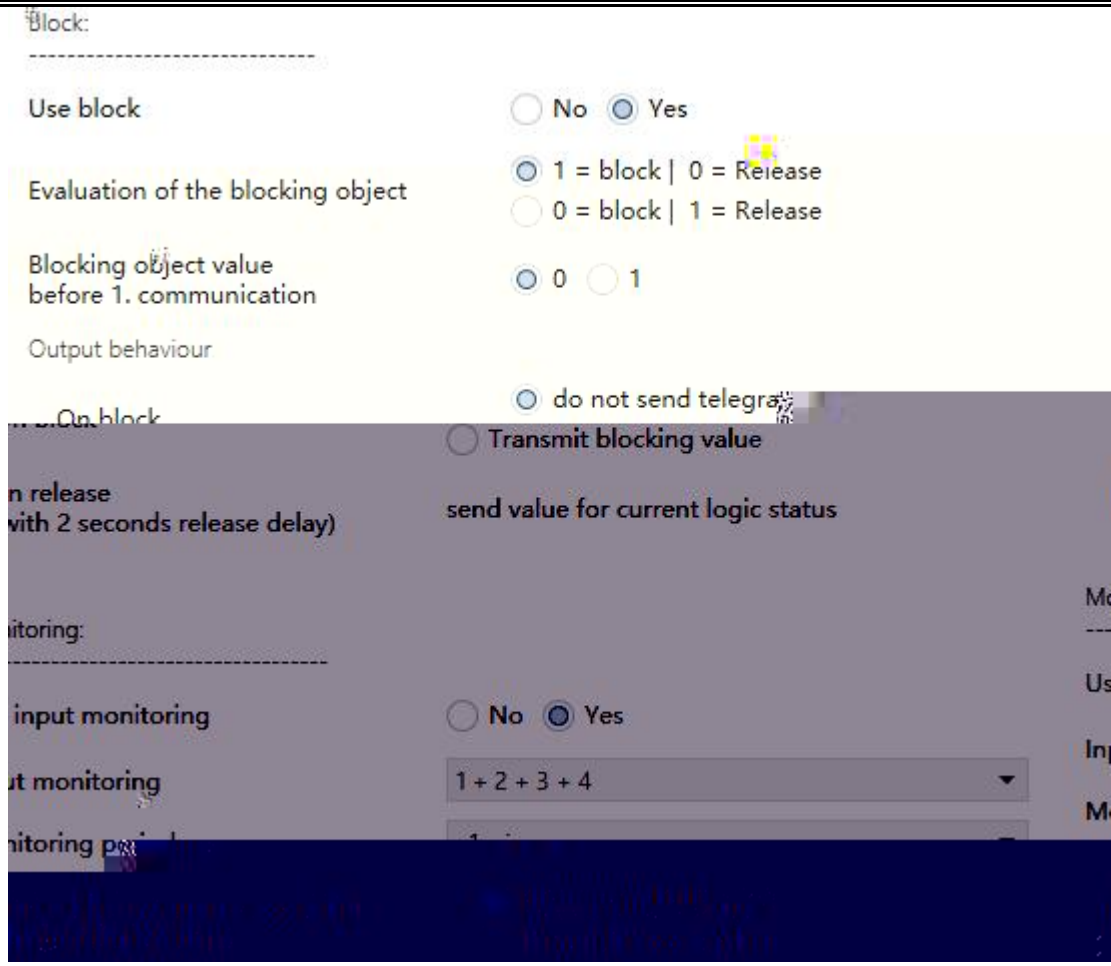
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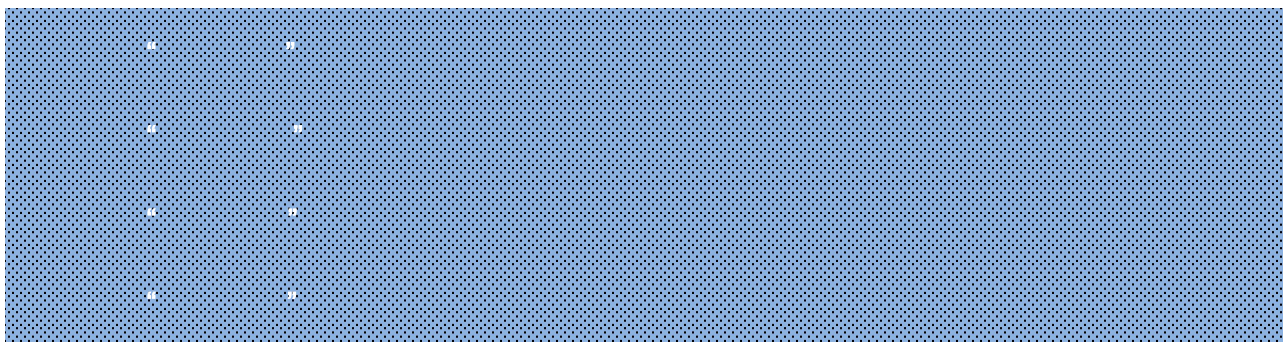
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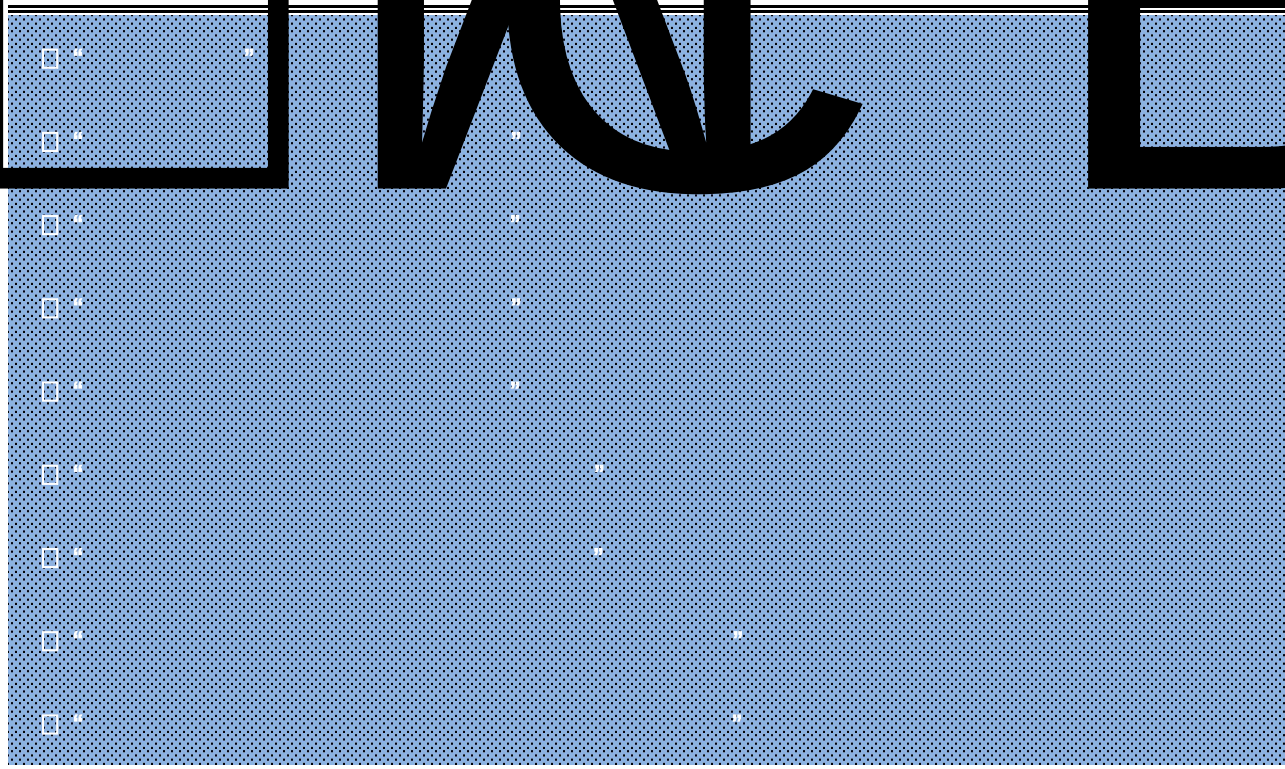


4.2 .1 □ □ □ □ □ " ND logic 1+...+ "



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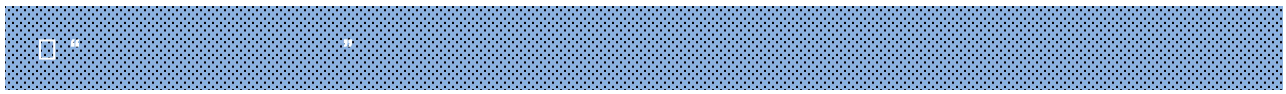
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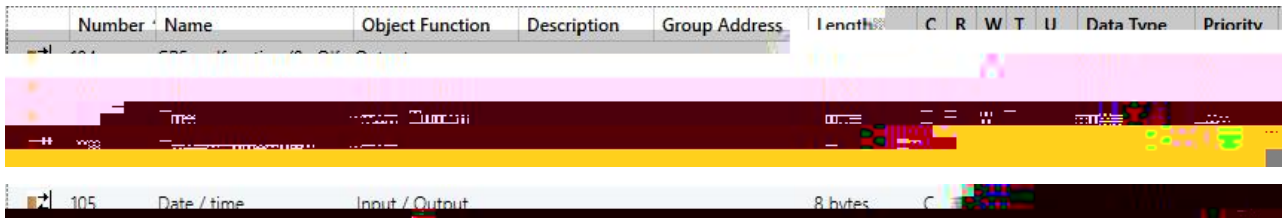
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5.2 □ □ “ PS settings”

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□ 5.2 □ □ “ PS settings”

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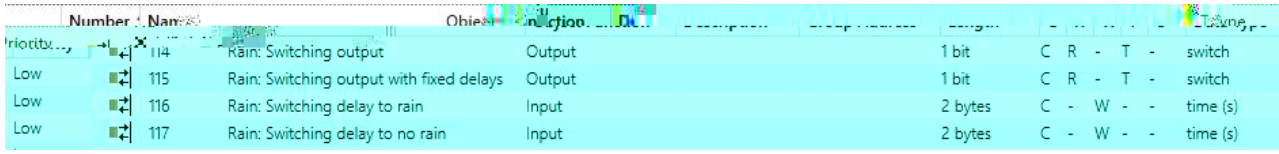
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5.3 □ □ “Location”

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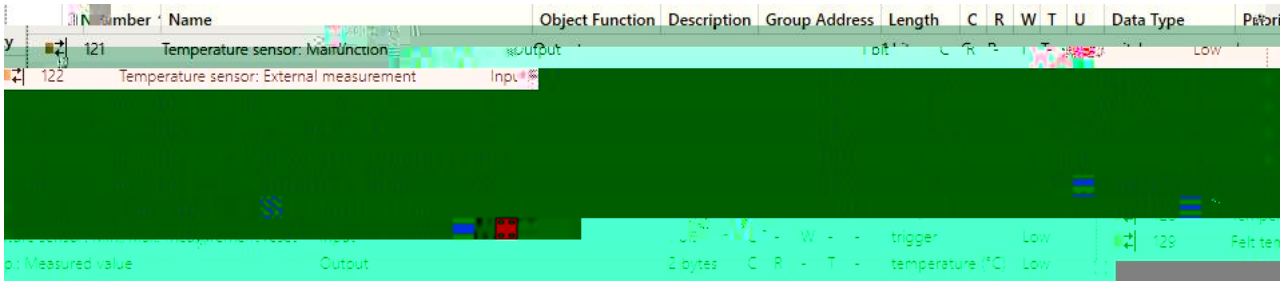
Number	Name	Object function	Description	Group Address	Length	C	R	W	T	U	Data Type
Priority											
	114	Rain: Switching output	Output		1 bit	C	R	-	T	-	switch
Low	115	Rain: Switching output with fixed delays	Output		1 bit	C	R	-	T	-	switch
Low	116	Rain: Switching delay to rain	Input		2 bytes	C	-	W	-	-	time (s)
Low	117	Rain: Switching delay to no rain	Input		2 bytes	C	-	W	-	-	time (s)

5.4 □ □ “Rain”

□	□	□ □	□		DPT
□□ □□ □ □□□□□ k □□□ □ “ Switching output sends ” □ “ on change and periodically ” k 1--□□ --□□					
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□ 5.4 □ □ “Rain”

□ □



5.5 □ □ “Temperature”

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□ 5.5 □ □ “Temperature”

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Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
131	Temp. threshold value 1: Absolute value	Input / Output			2 bytes	C	R	W	T	-	temperature (°C)	Low
133	Temp. threshold value 1: Switching delay from 0 to 1	Input			2 bytes	C	-	W	-	-	time (s)	Low
134	Temp. threshold value 1: Switching delay from 1 to 0	Input			2 bytes	C	-	W	-	-	time (s)	Low
135	Temp. threshold value 1: Switching output	Output			1 bit	C	R	-	T	-	switch	Low
136	Temp. threshold value 1: Switching output block	Input			1 bit	C	-	W	-	-	switch	Low
132	Temp. threshold value 1: (1:+ | 0:-)	Input			1 bit	C	-	W	-	-	step	Low

5.6 □ □ “Temperature threshold value”

□ □ □ □ □ DPT

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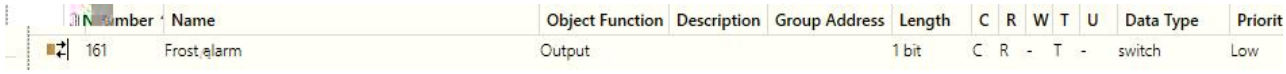
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“ Output is at(TV=threshold value)(SD=Switching distance) ” k					
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□ 5.6 □ □ “Temperature threshold value”

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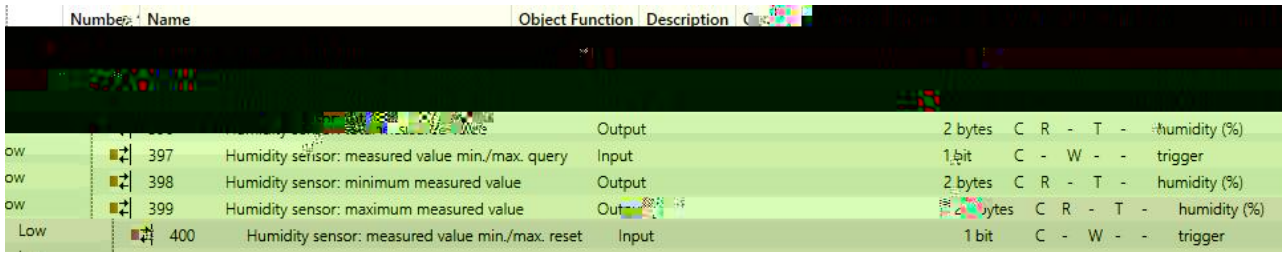
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priorit
161	Frost alarm	Output			1 bit	C	R	-	T	-	switch	Low

5.7 □ □ “ rost alarm”

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□ □ □ □ □ □ □ □ □ k □ □ “ Object value with frost ” □ □ □ □ □ □ k					

□ 5.7 □ □ “ rost alarm”

□ □

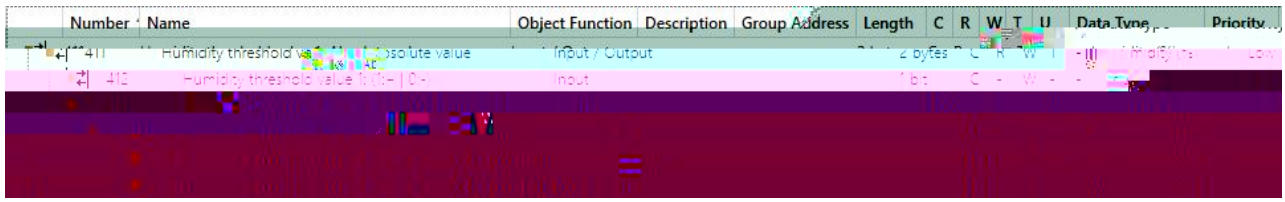


5. □ □ “Humidity measured value

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5. □ □ “Humidity threshold value”

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“ Output is at(TV=threshold value)(SD=Switching distance) ” k					
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□ 5. □ □ “Humidity threshold value”

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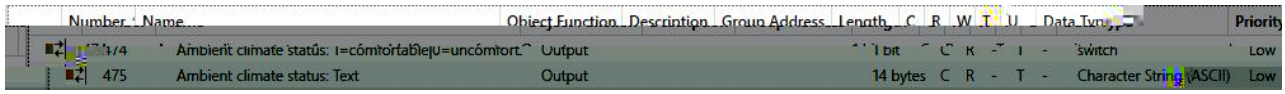
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“ Output is at(TV=threshold value)(SD=Switching distance) ” k					
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□ 5.1 □ □ “Dew point measured value”

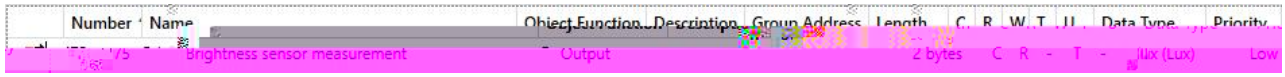
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5.12 □ □ “Comfort field”

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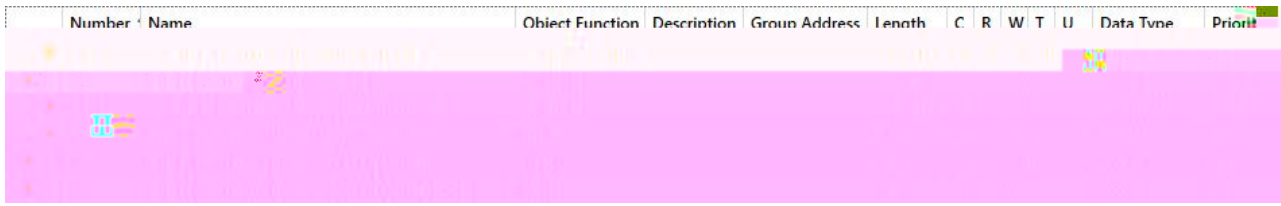


5.13 □ □ “Brightness”

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□ 5.13 □ □ “Brightness”

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5.14 □ □ “Brightness threshold values”

□ □ □ □ □ DPT

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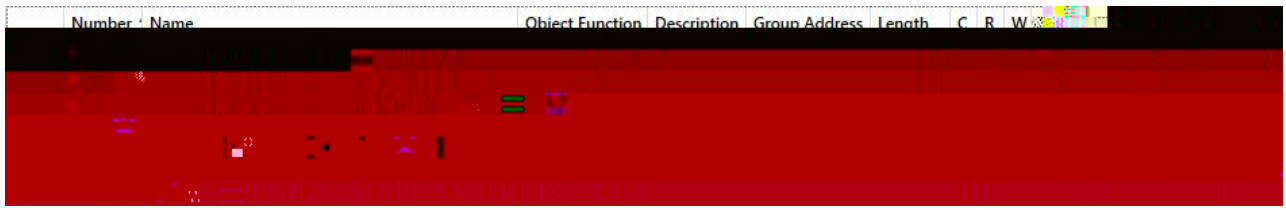
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“ Output is at(TV=threshold value)(SD=Switching distance) ” k					
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□ 5.14 □ □ “Brightness threshold values”

□ □



5.15 □ □ “Brightness, TV twilight sensor”

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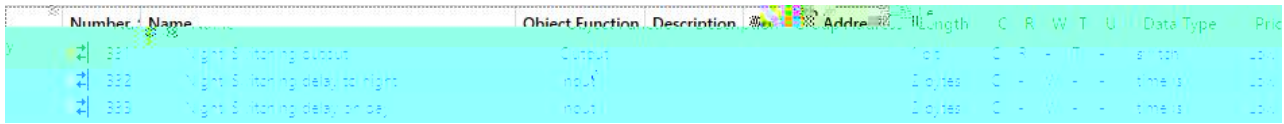
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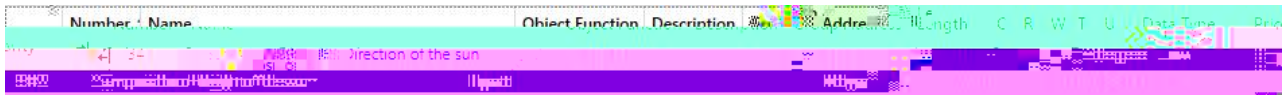
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5.16 □ □ “Night”

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□ 5.16 □ □ “Night”

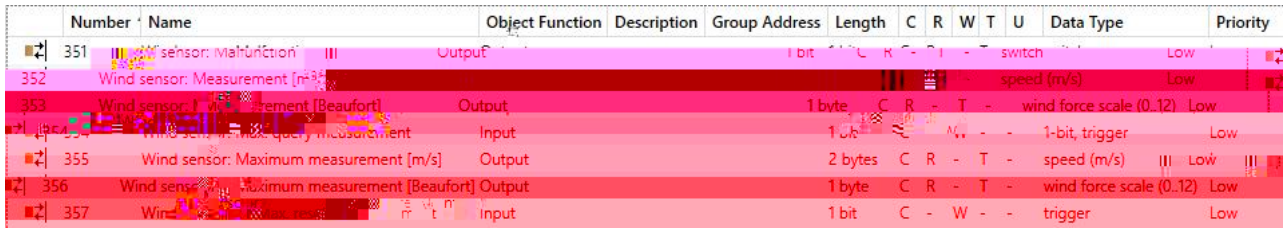


	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
	343	Sun position: Direction of the sun	Input			2 bytes	C	-	W	T	-	2-byte float value	Low
	344	Sun position: Height of the sun	Input			2 bytes	C	-	W	T	-	2-byte float value	Low

5.17 “Sun position”

DPT

□ □

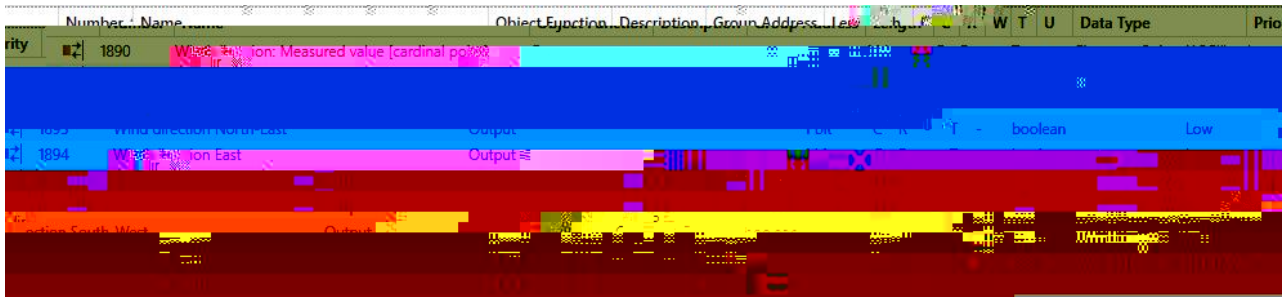


5.1 □ □ “Wind measurement”

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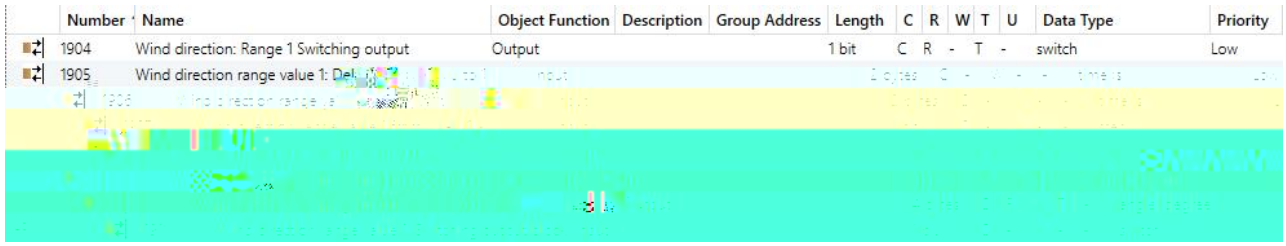
□□ □□ □o □□□□ □ k



5.2 “Wind direction”

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	-				
- k					
“ ” “ North(-) if active, send: ”					k
“ “ North- ast(45-) if active, send: ” k					
“ “ ast(-) if active, send: ”					k

□ □



	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
	1904	Wind direction: Range 1 Switching output	Output			1 bit	C	R	-	T	-	switch	Low
	1905	Wind direction range value 1: Del											

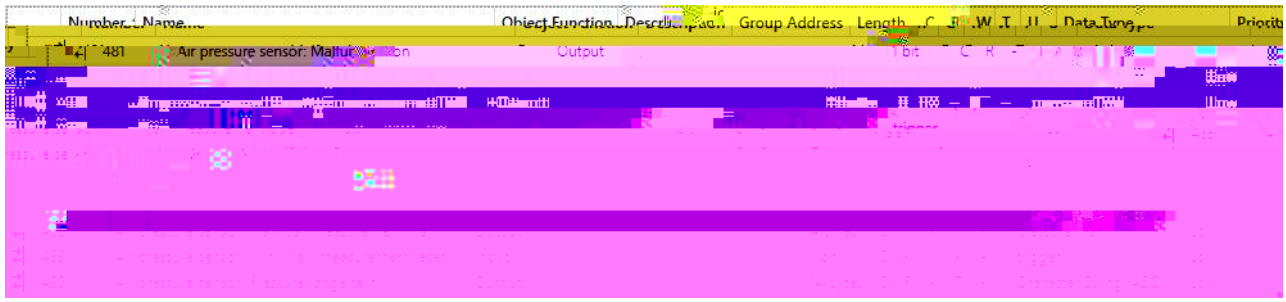
5.21 □ □ “Wind direction ranges”

□ □ □ □ □ DPT

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□ 5.21 □ □ “Wind direction ranges”

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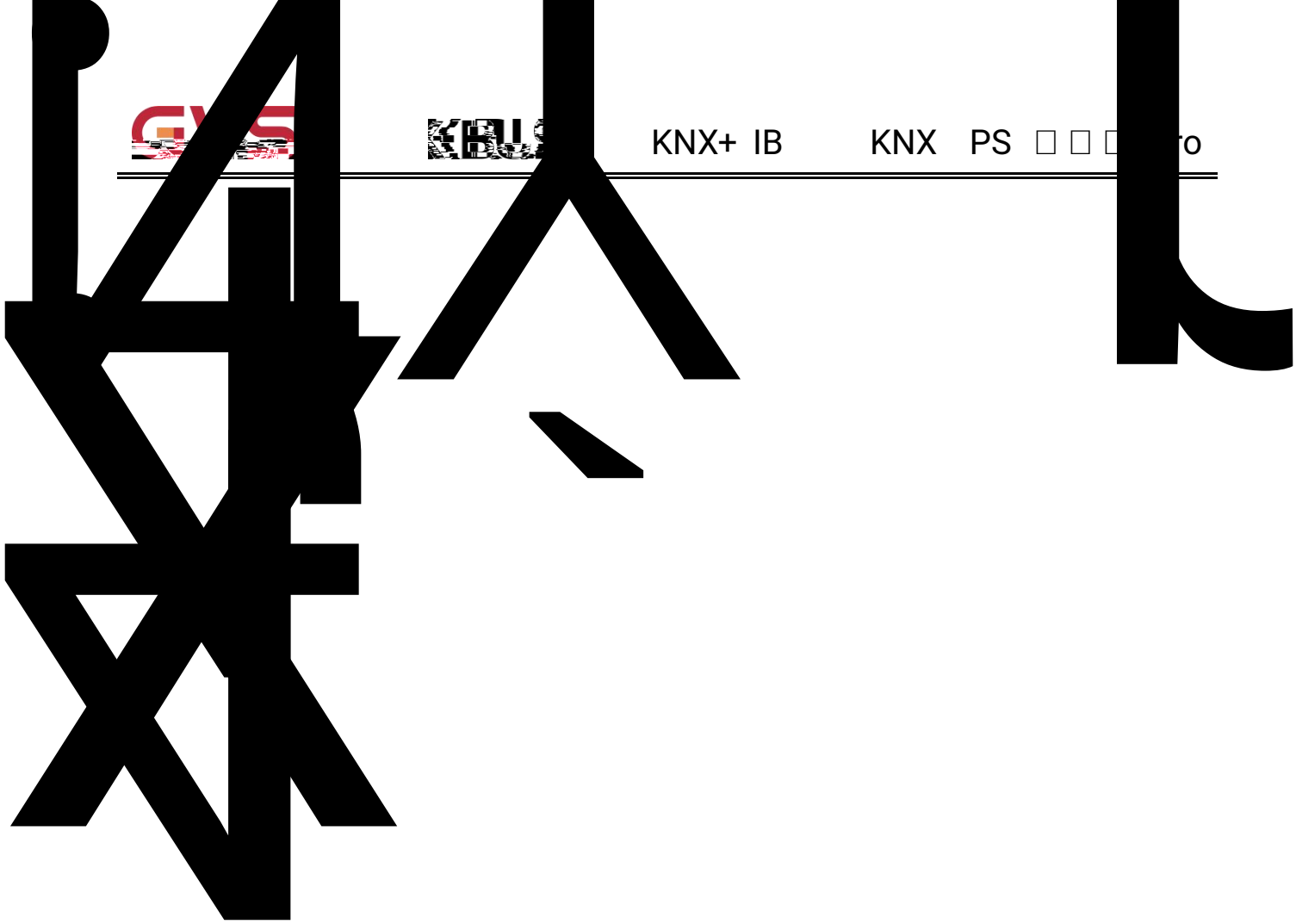


5.22 □ □ “Pressure measured value”

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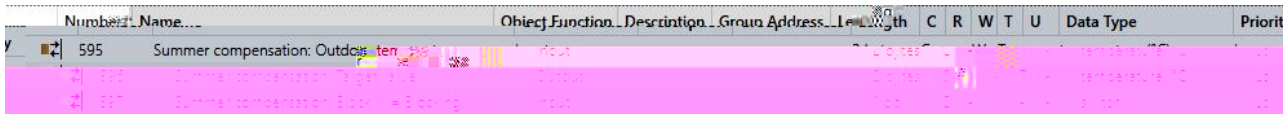
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□ 5.22 □ □ “Pressure measured value”



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“ Output is at(TV=threshold value)(SD=Switching distance) ” k



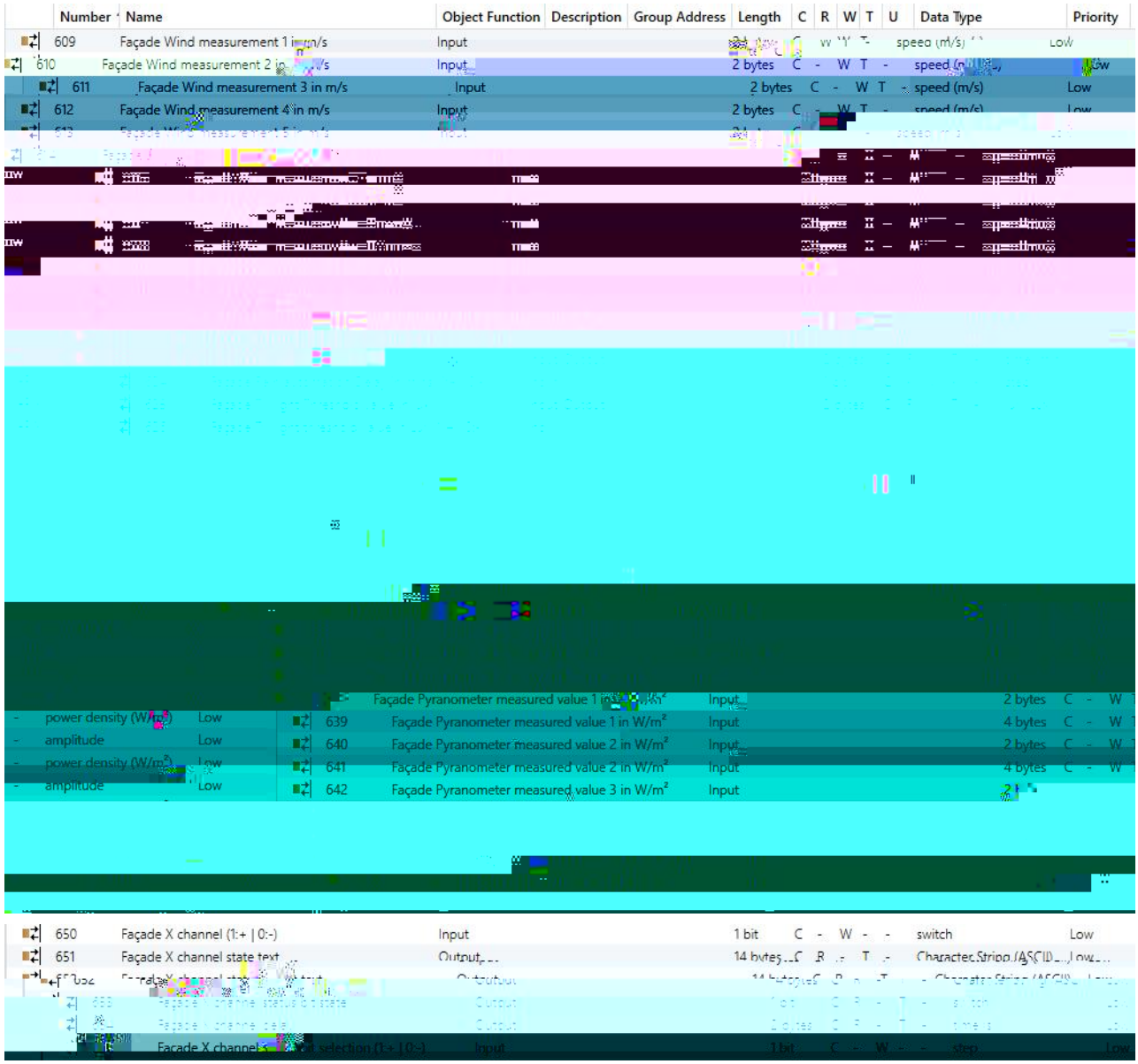
5.24 “Summer compensation”

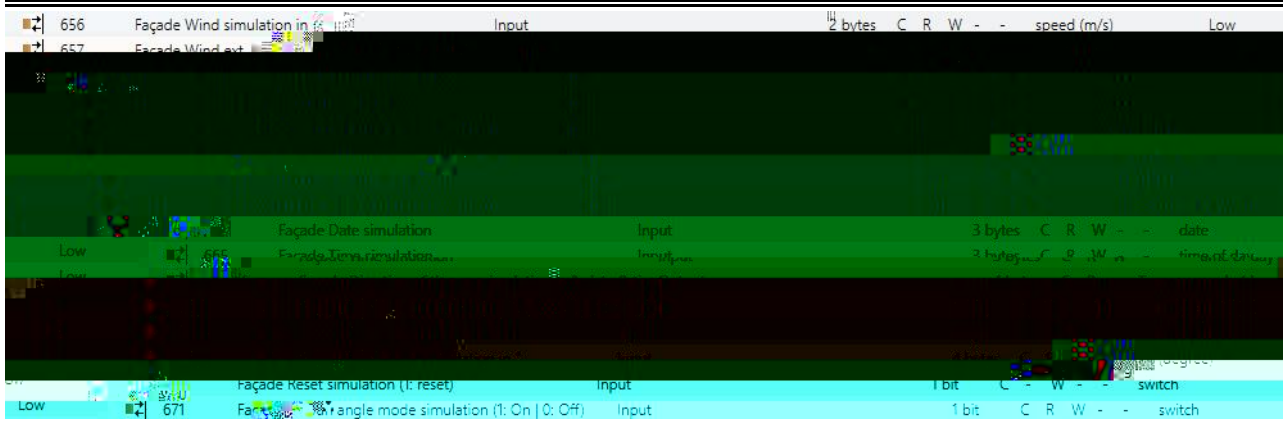
DPT

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Number
Name
Object Function
Description
Group Address
Length
C
R
W
T
U
Data Type
Priority
609 Façade Wind measurement 1 in m/s Input
610 Façade Wind measurement 2 in m/s Input 2 bytes C - W T - speed (m/s) Low
611 Façade Wind measurement 3 in m/s Input 2 bytes C - W T - speed (m/s) Low
612 Façade Wind measurement 4 in m/s Input 2 bytes C - W T - speed (m/s) Low
power density (W/m²) Low
amplitude Low
power density (W/m²) Low
amplitude Low
639 Façade Pyranometer measured value 1 in W/m² Input 4 bytes C - W
640 Façade Pyranometer measured value 2 in W/m² Input 2 bytes C - W
641 Façade Pyranometer measured value 2 in W/m² Input 4 bytes C - W
642 Façade Pyranometer measured value 3 in W/m² Input
650 Façade X channel (1:+ | 0:-) Input 1 bit C - W - - switch Low
651 Façade X channel state text Output 14 bytes C R - T - Character String (ASCII) Low



Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
672	Façade 1 simulation (1: On | 0: Off)	Input			1 bit	C	R	W	-	-	switch	
673	Façade 1 block (1 = Block | 0 = Release)	Input			1 bit	C	R	W	-	-	switch	Low
674	Façade 1 safety (1: On | 0: Off)	Output			1 bit	C	R	-	T	-	switch	Low
675	Façade 1 wind extension block (1: On | 0: Off)	Input			1 bit	C	-	W	-	-	switch	Low
676	Façade 1 wind extension block TLV in m/s	Input			2 bytes	C	R	W	T	-	speed (m/s)	Low
677	Façade 1 wind extension block TLV (1:+ | 0:-)	Input			1 bit	C	-	W	-	-	step	Low
678	Façade 1 wind extension block status (1: On | 0: Off)	Output			1 bit	C	R	-	T	-	switch	Low
679	Façade 1 wind alarm (1: On | 0: Off)	Input			1 bit	C	-	W	-	-	switch	Low
680	Façade 1 wind alarm threshold value in m/s	Input			2 bytes	C	R	W	T	-	speed (m/s)	Low
681	Façade 1 wind alarm threshold value (1:+ | 0:-)	Input			1 bit	C	-	W	-	-	step	Low
682	Façade 1 wind alarm status (1: On | 0: Off)	Output			1 bit	C	R	-	T	-	switch	Low
683	Façade 1 frost alarm status (1: On | 0: Off)	Output			1 bit	C	R	-	T	-	switch	Low
684	Façade 1 rain automation (1: activated)	Input			1 bit	C	-	W	-	-	switch	Low
685	Façade 1 timed opening (1: act. | 0: deact.)	Input			1 bit	C	R	W	-	-	switch	Low
687	Façade 1 timed opening status (1: On | 0: Off)	Output			1 bit	C	R	-	T	-	switch	Low
688	Façade 1 outdoor temp. Blocking (1: activated)	Input			1 bit	C	-	W	-	-	switch	Low
698	Façade 1 pyranometer (1: activated)	Input			1 bit	C	R	W	-	-	switch	Low
699	Façade 1 pyranometer in W/m²	Input/Output			2 bytes	C	R	W	T	-	power density (W/m²)	Low
700	Façade 1 pyranometer in W/m² (1:+ | 0:-)	Input			1 bit	C	-	W	-	-	step	Low
701	Façade 1 pyranometer status (1: On | 0: Off)	Output			1 bit	C	R	-	T	-	switch	Low
702	Façade 1 indoor temperature in °C	Input			2 bytes	C	-	W	T	-	temperature (°C)	Low
703	Façade 1 indoor temperature block (1: activated)	Input			1 bit	C	-	W	-	-	switch	Low
704	Façade 1 indoor temperature block	Input/Output			2 bytes	C	R	W	T	-	temperature (°C)	Low


707 Façade 1 indoor temperature via bit object (1: block) Input 1 bit C R W - - switch Low
708 Façade 1 sun automation (1: activated) Input 1 bit C R W - - switch Low
709 Façade 1 sun automation Direction of the sun from (i... Input 4 bytes C R W T - angle (degree) Low
710
1 sun automation Direction of the sun up to (... Input 1 bit C - W - - step Low
713 Façade 1 sun automation Height of the sun from (in °) Input 4 bytes C R W T - angle (degree) Lo
714
718 Façade 1 sun autom. ghtness measurement in Lux Input 2 bytes C - W T - lux (Lux) Low
719 Façade 1 sun automation Brightness TLV in Lux Input 2 bytes C R W T - lux (Lux) Low

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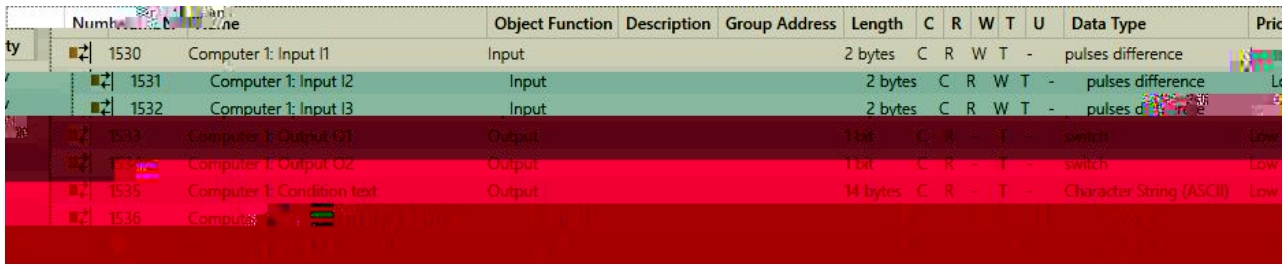
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5.26 □ □ “Computer”

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□ 5.26 □ □ “Computer”

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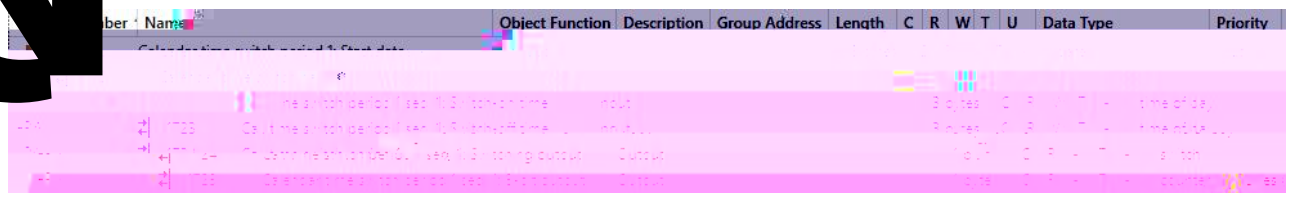


5.27 □ □ “Week time switch”

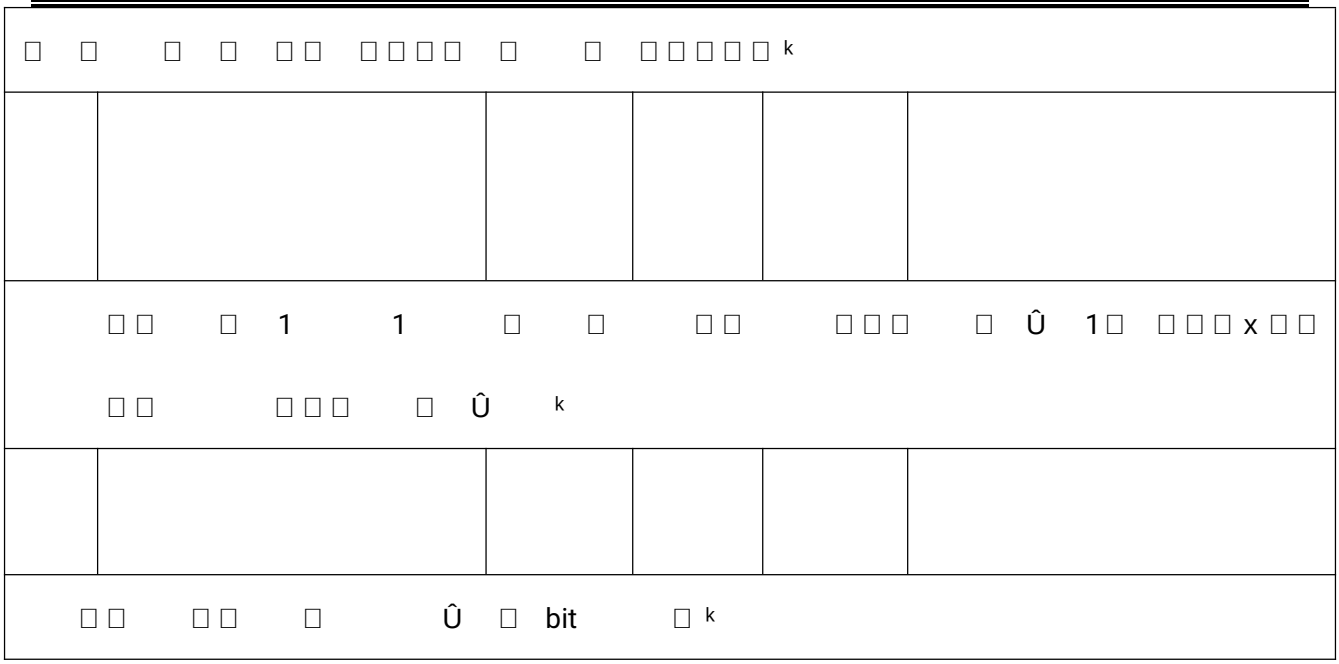
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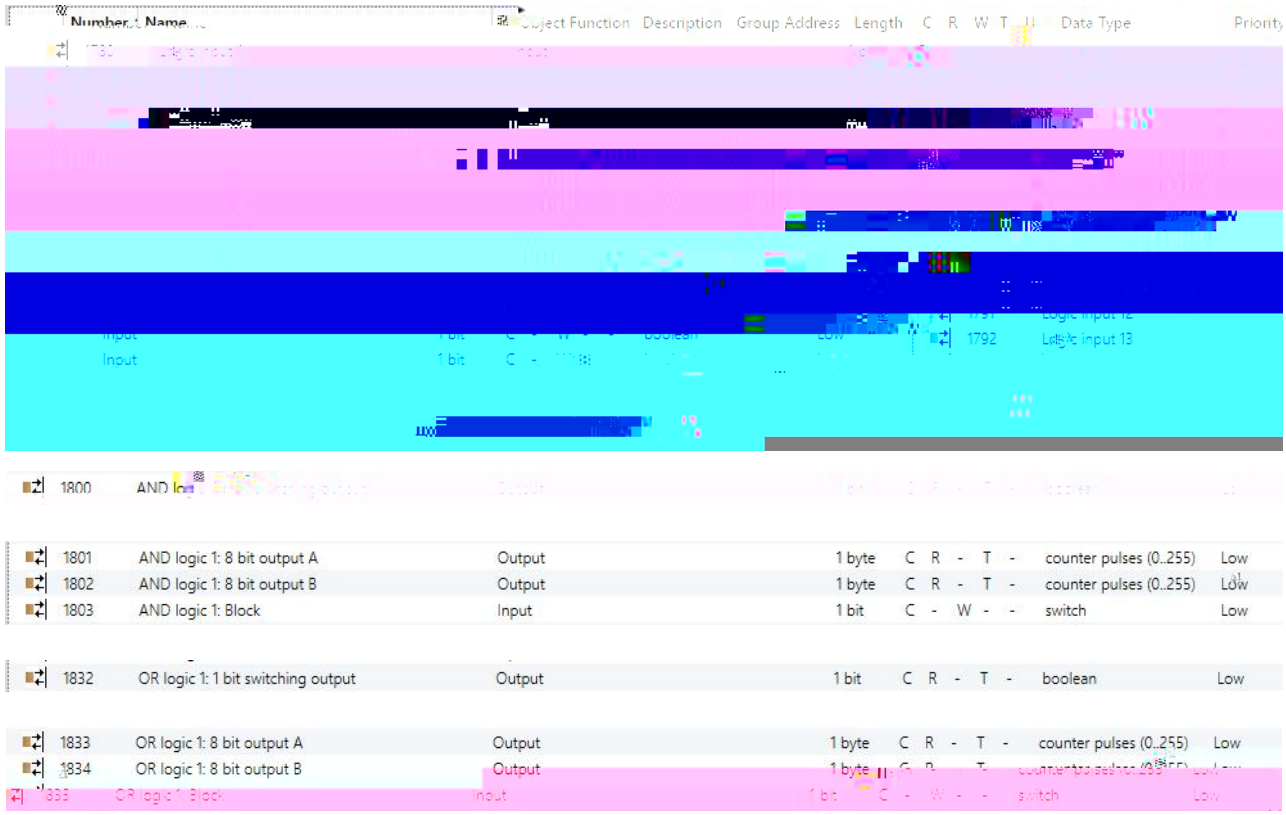

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□ 5.2 □ □ “Calendar time switch”

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5.2 □ □ “Logic”

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