K-BUS

KNX P S S _V2.2

CSBPM-04/00.1.0 KNX

CSBP-04/00.1.0 KNX

CSBPM-04/00.2.0 KNX ( )

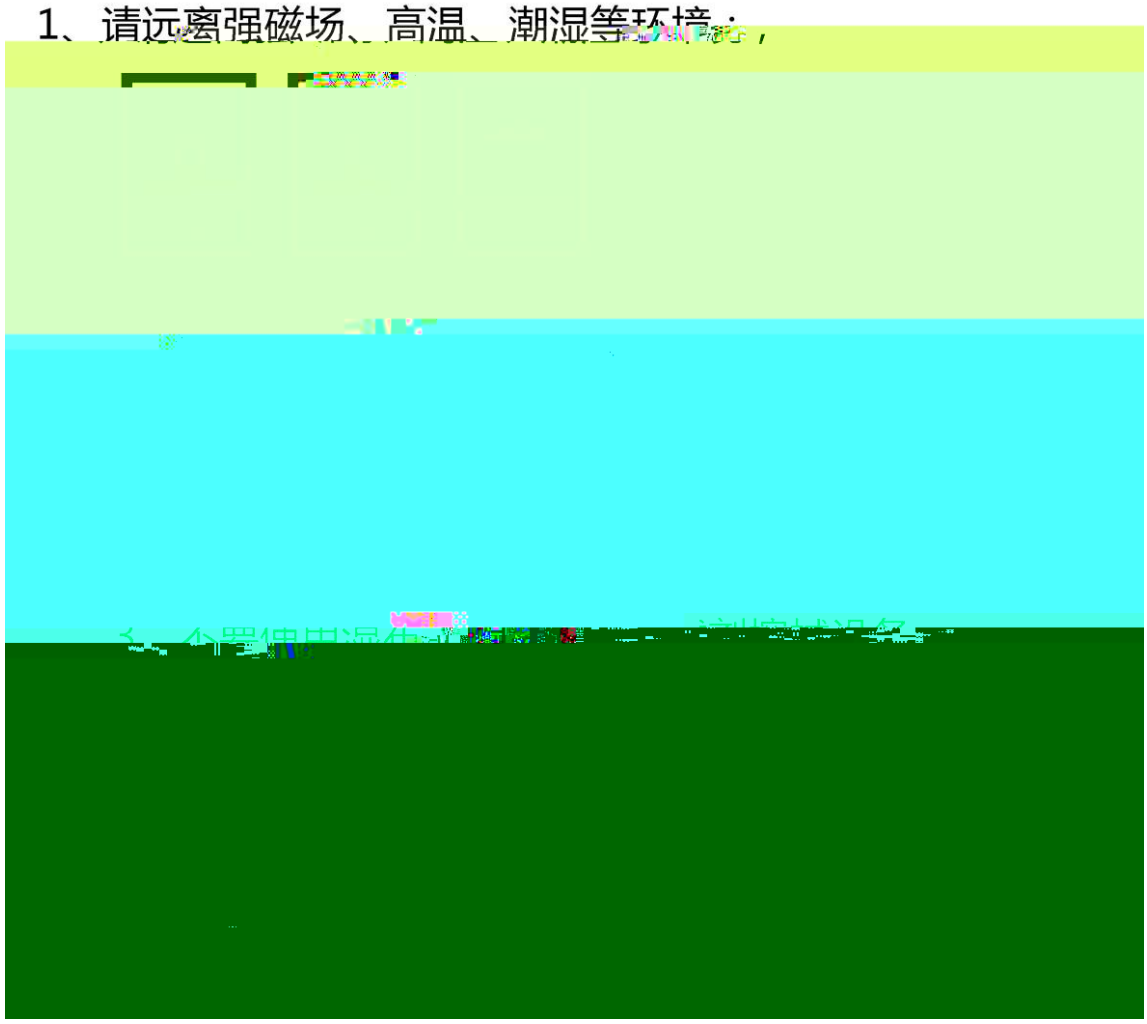
CSBP-04/00.2.0 KNX ( )

(=0: =1:)

KNX/EIB

注意事项

1、请远离强磁场、高温、潮湿等环境；



---------- 1

---------- 3

2.1. CSBPM-04/00.1.0 CSBPM-04/00.2.0 ---------- 3

2.2. CSBP-04/00.1.0 CSBP-04/00.2.0 ----------4

----------5

3.1. ---------- 5

3.2. ---------- 5

3.3. ----------6

3.3.1. CSBPM-04/00.1.0 CSBPM-04/00.2.0 ----------6

3.3.2. CSBP-04/00.1.0 CSBP-04/00.2.0 ---------- 9

---------- 11

ETS ---------- 14

5.1. KNX ---------- 14

5.2. G a ----------18

5.2.1. G a ---------- 18

5.2.2. A a ---------- 21

5.3. I a a ---------- 22

5.4. P ---------- 27

5.4.1. P ---------- 27

5.4.1.1. O ---------- 31

5.4.1.2. O a ---------- 38

5.4.1.3. B ---------- 40

5.5. L ---------- 44

5.5.1. O ---------- 47

5.6. C a ----------51

5.6.1. O ---------- 54

5.6.2. Ma -S a ---------- 60

5.7. RTC ---------- 63

5.7.1. S ---- 71
5.7.2. H a /C ---- 78
5.7.3. Fa a . ---- 87
5.8. L ---- 92
5.8.1. AND/OR/XOR ---- 93
5.8.2. Ga a ---- 96
5.8.3. T a a ---- 98
5.8.4. F a ---- 101
5.8.5. Ga ---- 102
5.8.6. D a ---- 104
5.8.7. S a a ---- 105
5.9. S G ---- 107
---- 110
6.1. G a ---- 110
6.2. I a a ---- 111
6.3. P ---- 112
6.4. L ---- 115
6.5. C a ---- 116
6.6. RTC ---- 118
6.7. L ---- 123
6.7.1. AND/OR/XOR ---- 123
6.7.2. Ga a ---- 124
6.7.3. T a a ---- 125
6.7.4. F a ---- 126
6.7.5. Ga ---- 128
6.7.6. D a ---- 129
6.7.7. S a a ---- 130
6.8. S G ---- 131

KNX ! KNX KNX

! KNX 24GHz PIR

k ! CSBPM-04/00.1.0x CSBP-04/00.1.0x

! / k

k

! ! !

k

k

KNX KNX KNX

12-30V DC KNX KNX KNX

k .knxprod ETS

ETS5.7 k

- **24GH !**

  CSBPM-04/00.1.0 CSBPM-04/00.2.0

- **CSBP-04/00.1.0**

  CSBP-04/00.2.0

- **/ CSBPM-04/00.1.0**

  CSBPM-04/00.2.0

-
- **4 1**
-

-

  CSBP-04/00.1.0 CSBPM-04/00.1.0

-

  CSBP-04/00.2.0 CSBPM-04/00.2.0

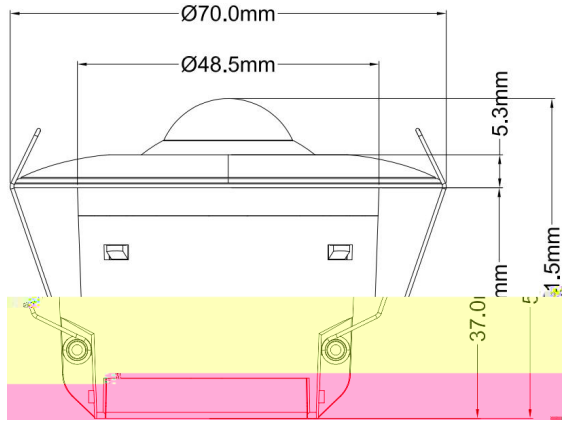
- **/**
-
-
- **/ /**
-
- **KNX**

2.2.CSBP-04/00.1.0 CSBP-04/00.2.0

	21-30V DC
	<6.5mA / 24V <5.5mA / 30V <165mW
KNX	(/)
(CSBP-04/00.1.0x)	0-2000lux
	0-40℃ 20-90%
LED	
LED	
	−5 °C ... + 45 °C
	−25 °C ... + 55 °C − 25 °C ... + 70 °C
	<93%,
!	80 86 !
	CSPFA-86/0.1.0x
	CSPSA-00/0.1.00(1)
ť 70 x 51.5mm	
0.05kg	

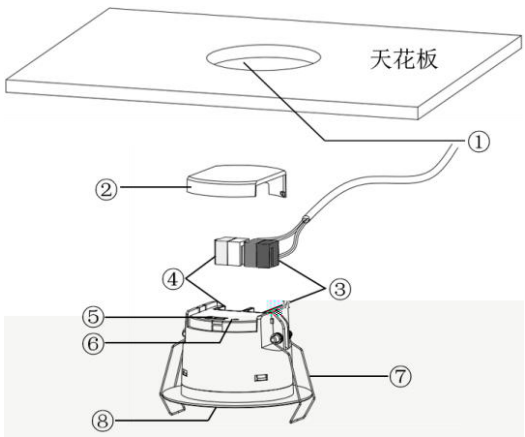
3.1.

CSBPM-04/00.1.0x CSBPM-04/00.2.0x

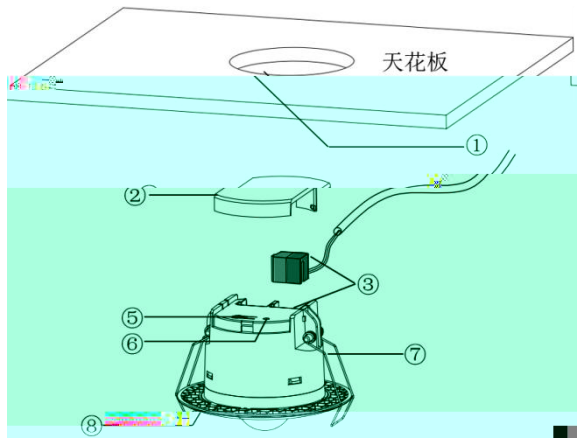


CSBP-04/00.1.0x CSBP-04/00.2.0x

3.2.



CSBPM-04/00.1.0x CSBPM-04/00.2.0x



CSBP-04/00.1.0x CSBP-04/00.2.0x

ť 53mm / ť 55mm

LED

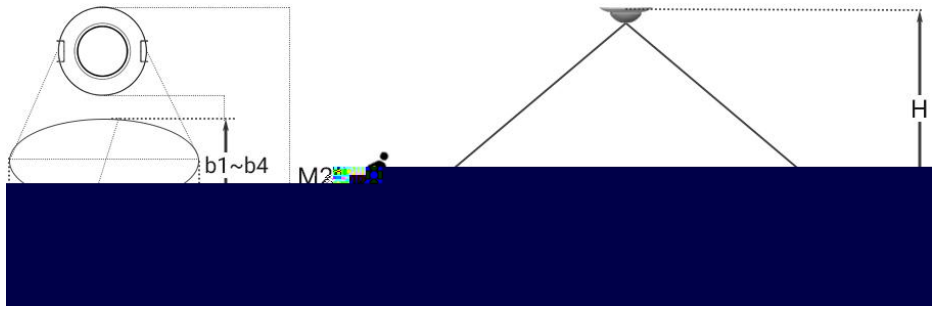
KNX

4 **4** **3**

3.3.

3.3.1. CSBPM-04/00.1.0 CSBPM-04/00.2.0

3.0.0



CSBPM-04/00.1.0x CSBPM-04/00.2.0x

H	M1		M2		M3		M4	
	a1	b1	a2	b2	a3	b3	a4	b4
2.5	6	5	7	5.5	6.5	5	6.5	6
3	7	6.5	8	7.5	7.5	6	8	6
4	8.5	7.5	8.3	8.5	8.5	7.5	8.5	7.5

3

	S1	S2	M3	M4
L	2.8	2.5	3.5	4.5
L	3.5	3	4	5.2
M	5	4	5	6.5
H	6	5	6	7
H	7	6	7.5	8

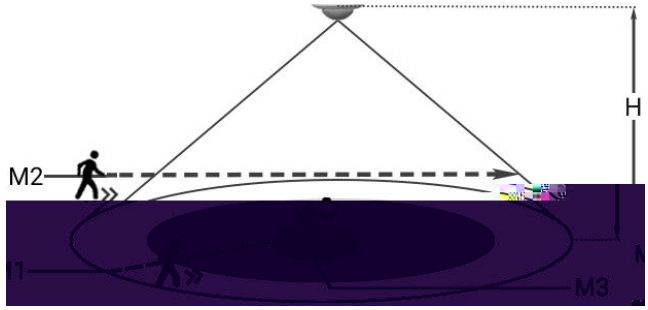
(H)/ ( )

a b **a** !

M1 M2 M3 M4

S1 0.3m/s S2 1.0m/s ᵏ

3.0.0



CSBPM-04/00.1.0x CSBPM-04/00.2.0x

3

	M1 **(0.3 /)**	**M1** **1.0 /**	**M2**	**M4**
	1.8	1.2	1.8	2.5
	2.5	2.0	2.5	3.0
	4.0	3.5	4.0	5.0
	6.0	5.0	6.0	7.0
	7.5	7.0	7.5	8.0

( ) ®0.5m

1. k

2. **3** k

CSBPM-04/00.1.0 **CSBPM-04/00.2.0**

50%

k

F k

F ! **<10** , **30%-50%**

k

/

k

k

! ! !

k ! !

F 1.5 k

F

1.5 k

/ / 1.5

k

1

k

F ! ! k

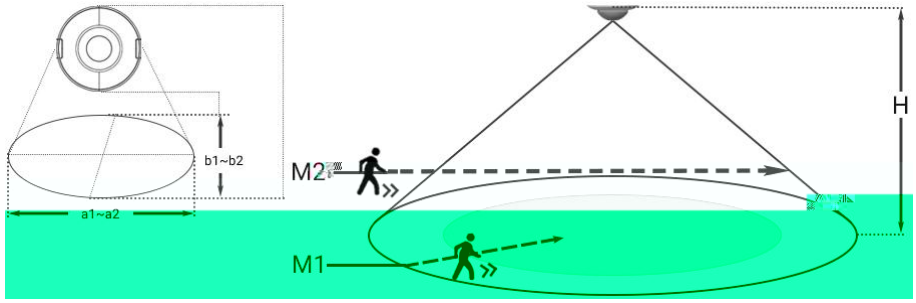
F ! ! ! k

! ! k

! ! ! ! k

! ! ! k

3.3.2. CSBP-04/00.1.0 CSBP-04/00.2.0



3.3.2(1) CSBP-04/00.1.0x CSBP-04/00.2.0x

H	M1		M2	
	a1	b1	a2	b2
2.5	5	4	7	6
3	6	5	8	7
4	8	7	11	9.5
5	10	8.5	13.5	11.5
6	11	10	15.5	13.5

1.0m/s (H) ( )

a b a !

M1 M2 k

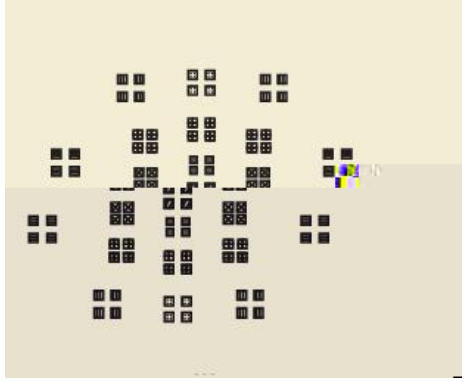
1. ! k

5 k

2.

3.3.2(2)

k



3.3.2(2)

KNX CSBP-04/00.1.0 CSBP-04/00.2.0

1 ,

2

3

4 ! ! !

5 ( )

k

KNX P **S ,M a /1.2** **KNX M S ,PIR/1.2** **KNX P S** **,M a /1.2** **KNX M S** **,PIR/1.2**	**276**	**500**	**500**	**339**

k KNX KNX (

) k

k

(CSBP-04/00.1.0x CSBPM-04/00.1.0x)

k

4 k

2 ! k

/ k

3 (A/B/C D/E/F)

3 k

k

k !

k k

k

/ 4 !

! k

/ k

k PI k

8 8 1 k

! ! ! ! ! ! ! k

8 k 8

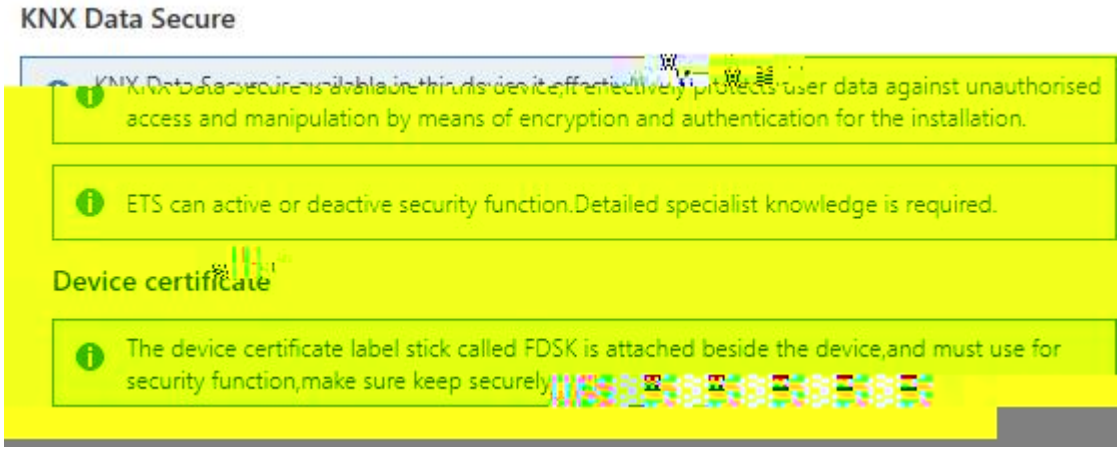
k

ETS

5.1.KNX

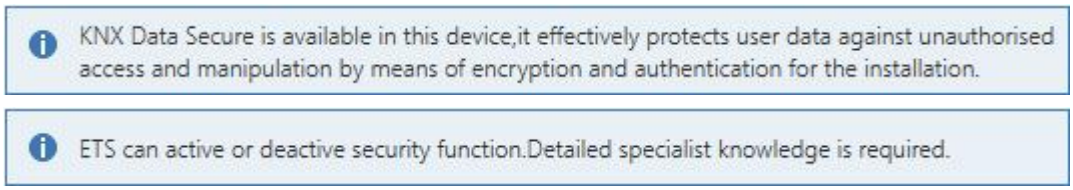
KNX KNX k

k



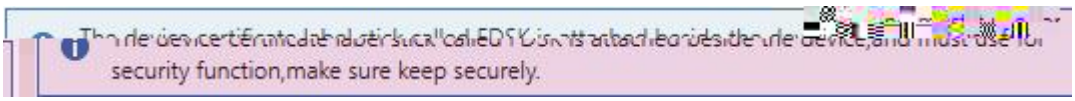
5.1 (1) “KNX Secure”

KNX KNX ETS 5.1(1)



KNX

k ETS k k



FDSK k

ETS

❖ KNX k

KNX

k

❖ KNX k FDSK =

ETS

✧ ETS 5.1 (2) k

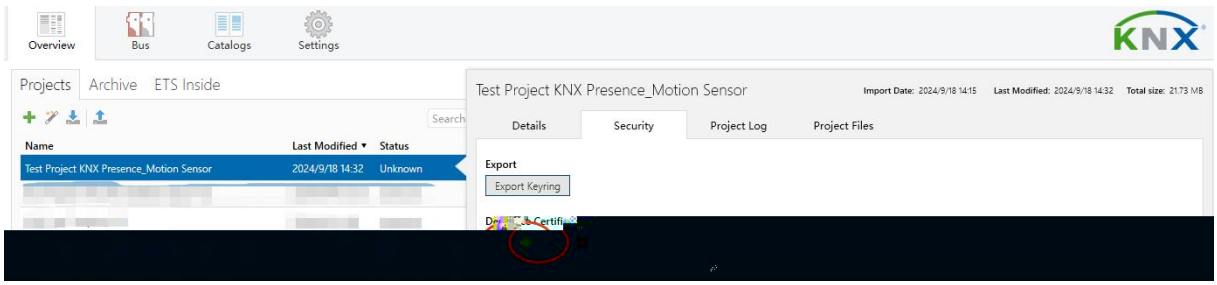
QR k

5.1(2) Add Device Certificate

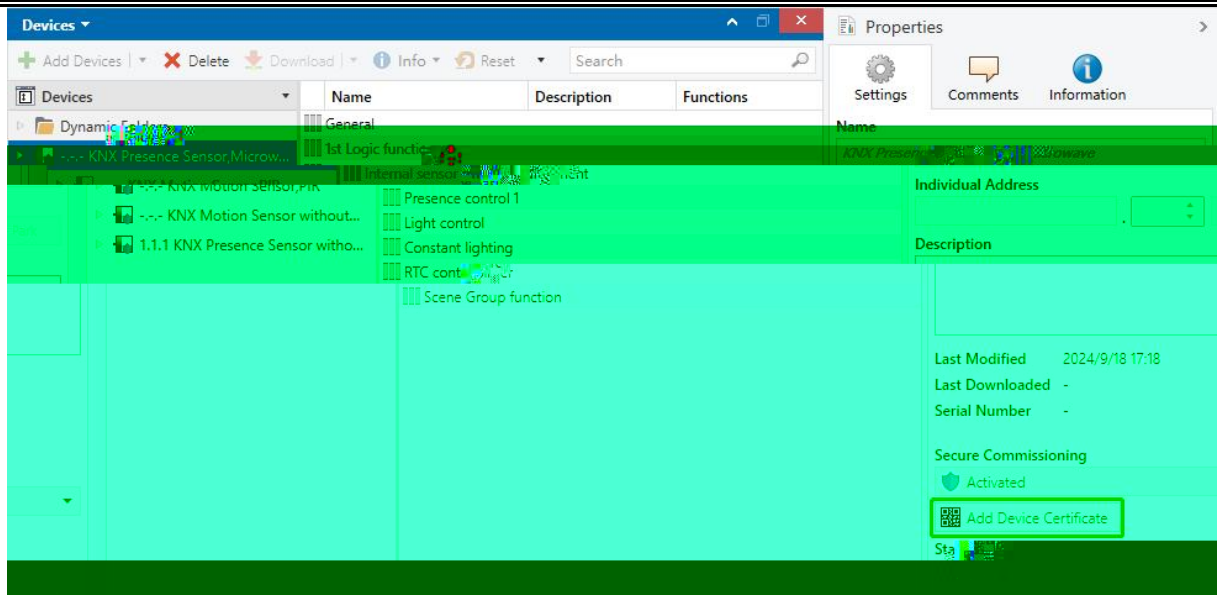
✧ ETS k

“Security” 5.1(3) k

“Add Device Certificate” 5.1(4) k



5.1(3) Add Device Certificate



5.1(4) Add Device Certificate

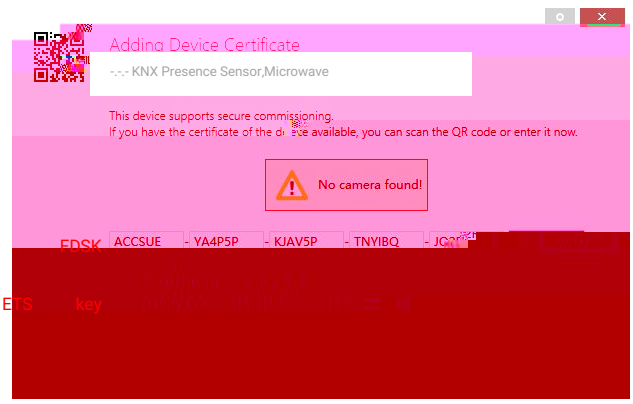
✧ FDSK ᵏ

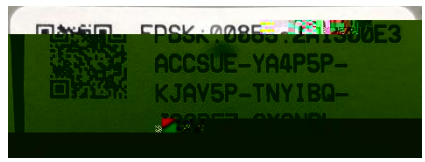
FDSK **KNX** ᵏ

FDSK FDSK ETS 5.1(5) ᵏ

ETS

FDSK ᵏ





5.1(5)

ᵏ

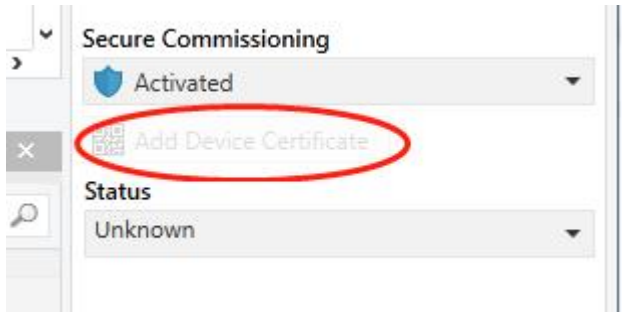
5.1(6) “Yes” “Add Device Certificate” FDSK

5.1(6) ᵏ

5.1(6)

FDSK k

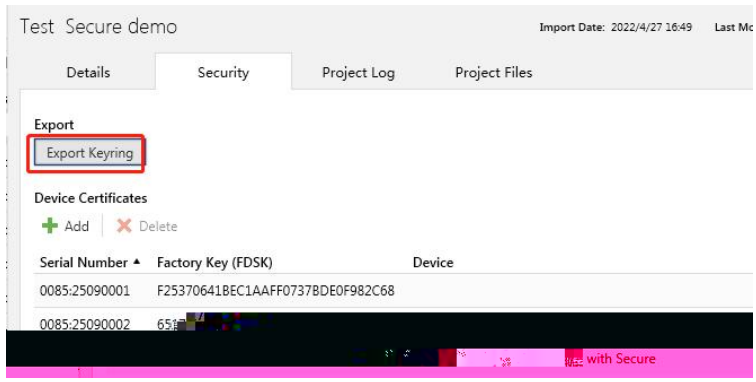
"Add Device Certificate" k



5.1(7)

ETS

5.1(8) .knxkeys k



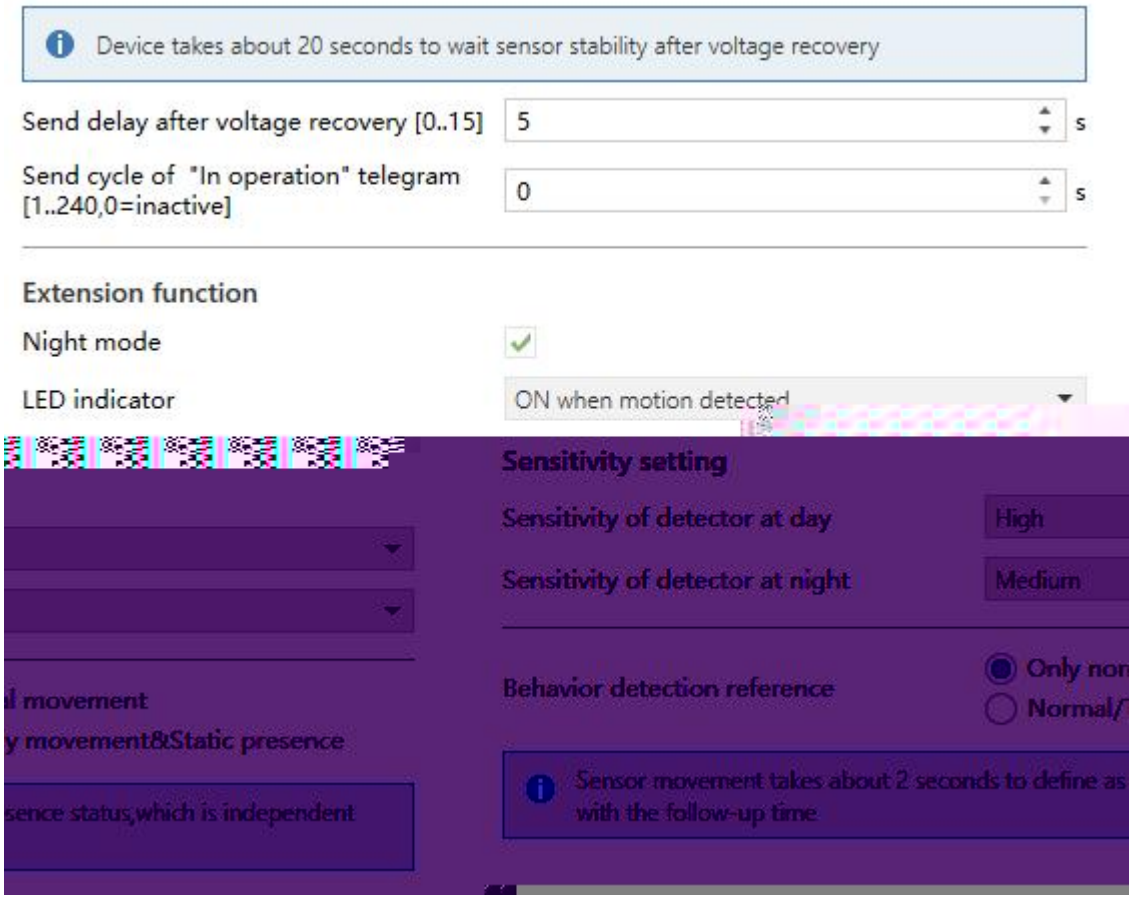
5.1(8)

KNX USB , ETS

k

5.2. G a

5.2.1. G a



5.2.1 “General setting”

20

k k

S a a a [0..15]

k **0...15**

k

S l a a [1...240, 0= a]

k “0” “In operation”

k “0” “In operation” “1”

k **0 240 0=**

k

E

N

k

LED a

LED k

D a
ON
ON a
F a
F a a
ON/OFF a a
F a a a
“...in day” k

Disable LED k

ON when motion detected LED k

ON when motion detected in day LED k

Flashing when motion detected LED k

Flashing when motion detected in day LED k

ON/OFF via external object LED 1- 0- k

Flashing via external object LED 1- 0- k

S

S

S a a

S a

5 / / / / k /

/ Ị, vÚ k

L

L

M

H

H

k

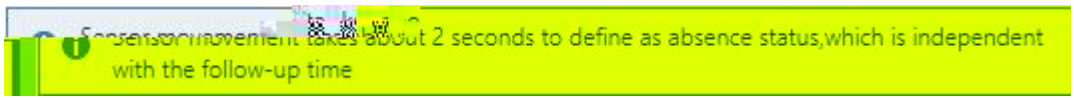
B a

k

O a

N a /T &S a

Only normal movement k



Normal/Tiny movement&Static presence

5.2.2. A a

5.2.2 “Advanced setting”

RTC

k

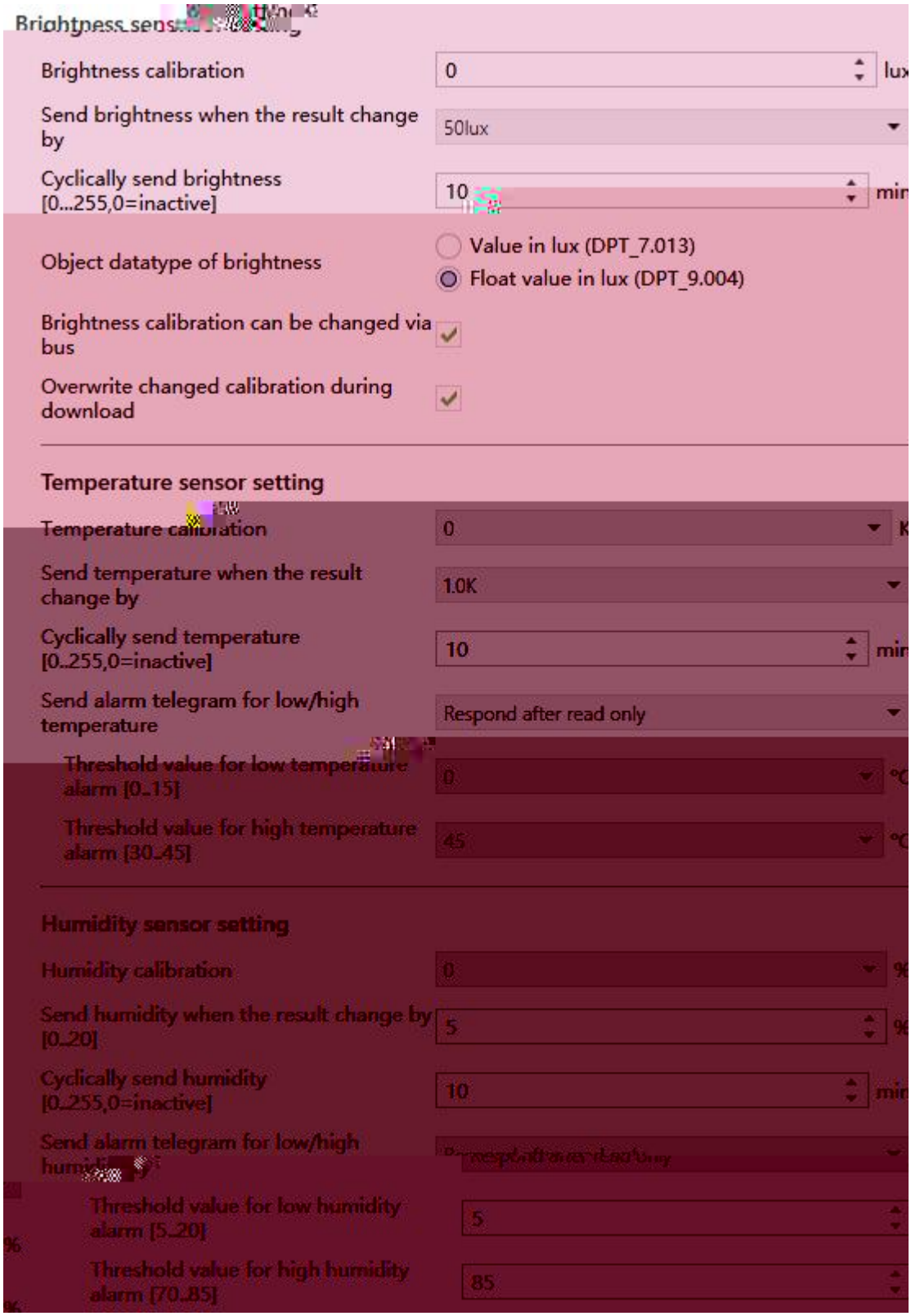
L

k

S G

k

5.3. I a a



5.3 “Internal sensor measurement”

! !

k

B

KNX CSBPM-04/00.1.0 KNX CSBP-04/00.1.0

k

B a a

k **-500..500**

S a

k Disable k

D a
5
10
15
...
100

C a [0...255,0= a]

k 0 k **0..255**

k

O a a

k

Va (DPT_7.013)
F a a (DPT_9.004)

B a a a a a

k “Brightness correction[-500...500]”

k

O a a a a

k k -

- k

T a

T a a a

k

-10K

...

0K

...

10K

30

k

S a a

k Disable k

D a

0.5K

1.0K

...

10K

C a a [0...255,0= a]

k 0 k **0..255**

k

S a a a / a

/ k

N

R a a

R a a

No respond

Respond after read only

“ Low temperature alarm”/“ High temperature alarm”

Respond after change “ Low temperature alarm”/“ High temperature alarm” k

“Respond after read only” “Respond after change” k

T a a a a [0..15]-C

k k

0 C

1 C

...

15 C

T a a a a [30..45]-C

k k

30 C

31 C

...

45 C

H

H a a

k **-20% / -15% / -10% / -5% / -3% / -1% / 0% / 1% / 3% / 5% / 10% / 15% / 20%**

S a [0..20]

k 0 k **0..20%**

C a [0..255,0= a]

k 0 k **0..255**

k

S a a a /

/ k

N

R a a

R a a

No respond

Respond after read only

“ Low humidity alarm”/“ High humidity alarm”

Respond after change “ Low humidity alarm”/“ High humidity alarm”

k

“Respond after read only” “Respond after change” k

T a a a [5..20]

k k **5..20%**

T a a a [70..85]

k k **70..85%**

5.4. P

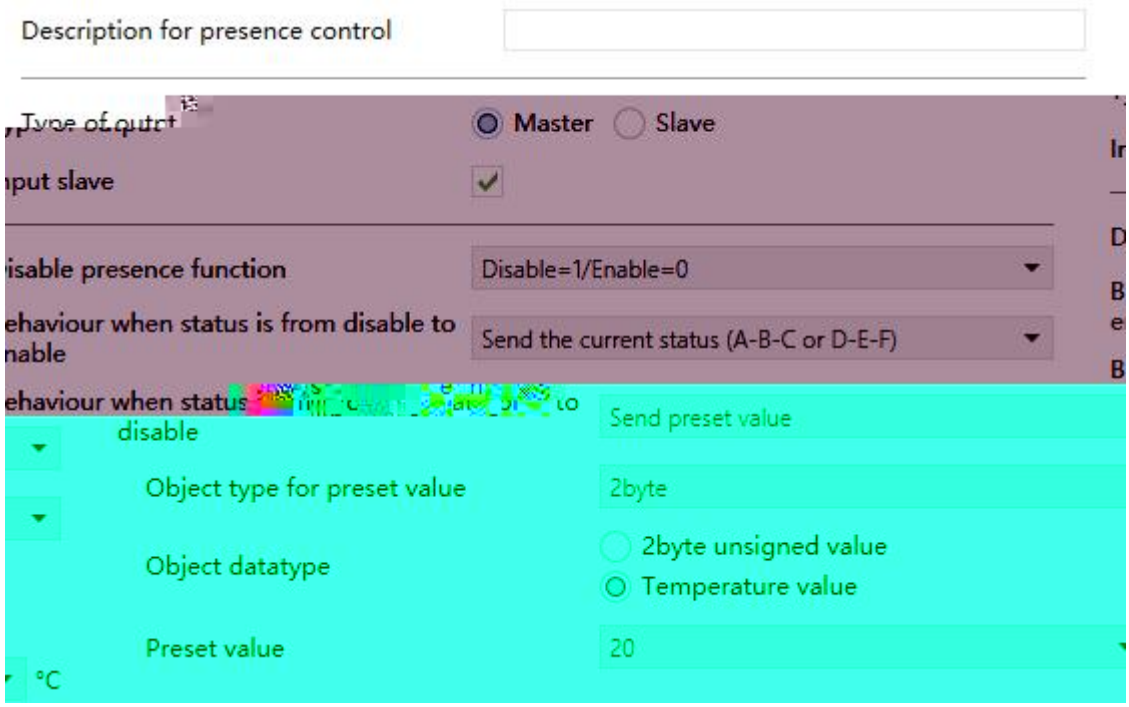
5.4 “Presence function”

N

4 None k

N / 1 / 2 / 3 / 4

5.4.1. P



5.4.1 “Presence control x”

D

30 k

T

k

Ma

S a

k

I a

k 1

k

D a

/ k

D a

D a =1/E a =0

D a =0/E a =1

k

“Disable”

B a a a a

k

N a

S a (A-B-C D-E-F)

S a (A-B-C)

S a (D-E-F)

No telegram k

Send the current status (A-B-C or D-E-F) k

A-B-C D-E-F

k

Send the value for presence begin (A-B-C) k

A-B-C k

Send the value for presence end (D-E-F) k

D-E-F k

2 ! 3 ! 4 B ! C ! E ! F k

B a a a a

k

HVAC

2byte

2 a

T a a

P a

k

1bit

OFF

ON

1byte 1byte unsigned value **0..255**

1byte 1byte percentage value

0%

5%

...

100%

1byte Scene number

S N .1

S N .2

...

S N .64

1byte HVAC mode

A

C

S a

E

F / a

2byte 2byte unsigned value **0..65535**

2byte Temperature value

-5 C

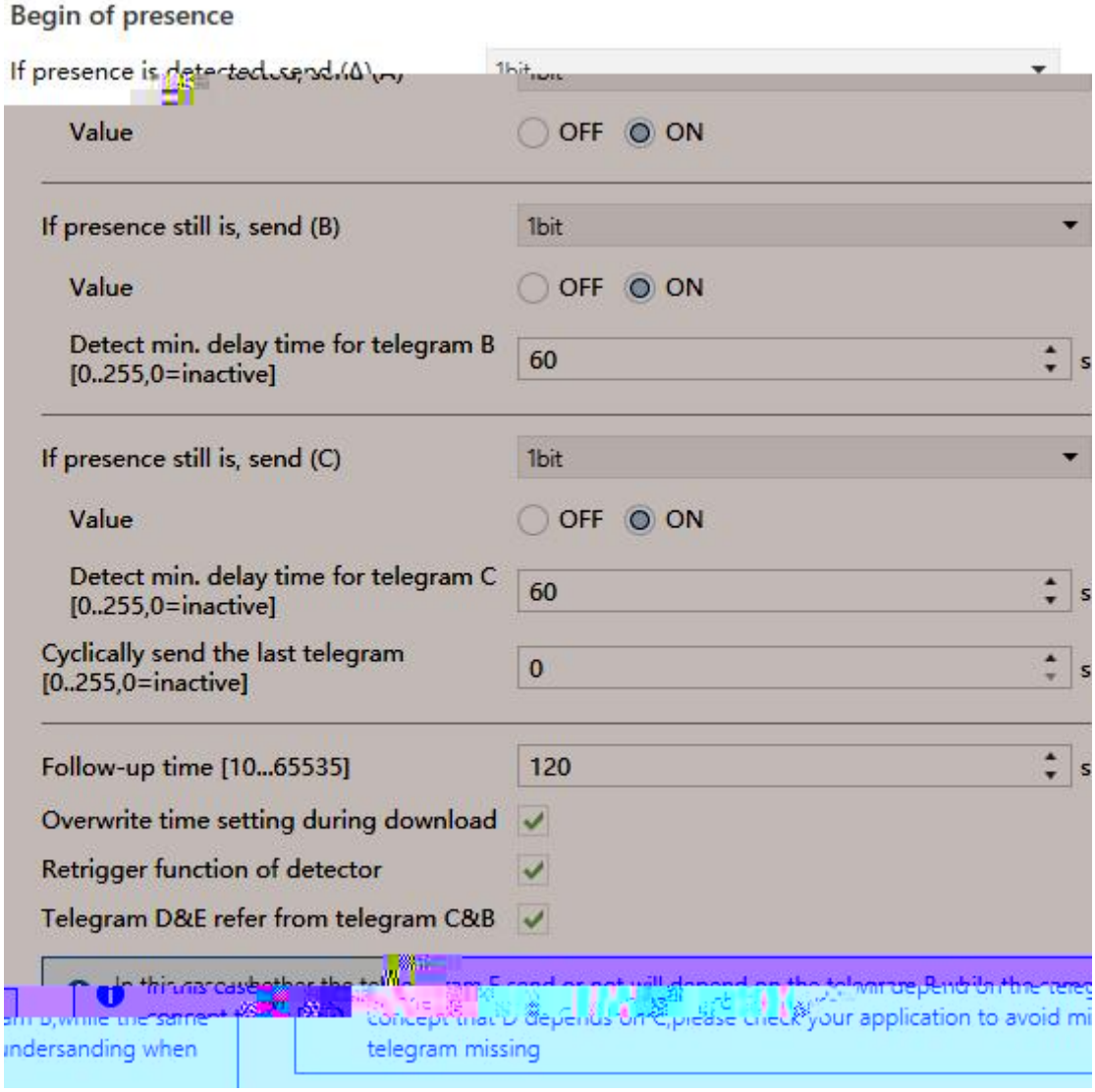
...

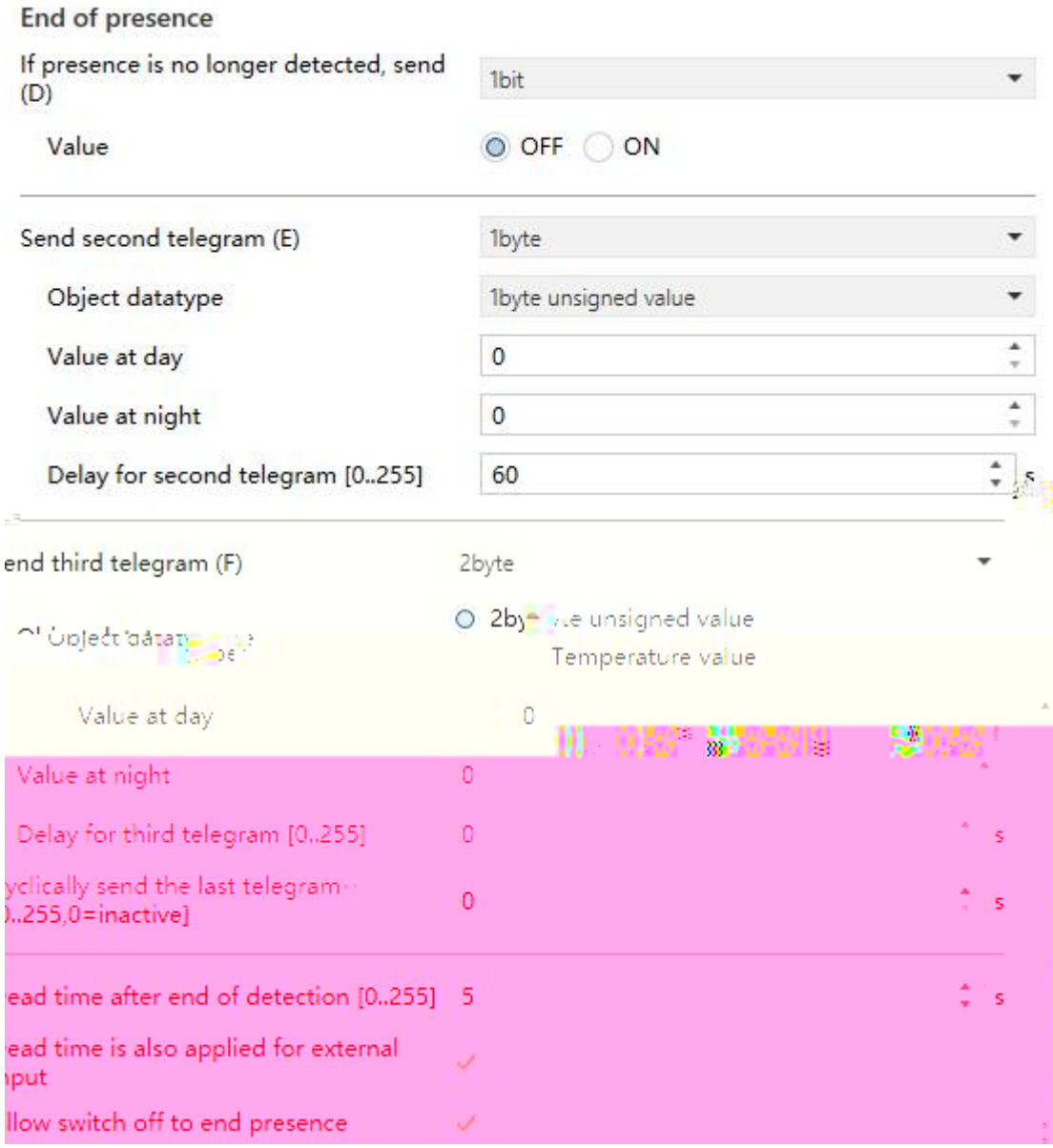
44 C

45 C

5.4.1.1. O

k


Begin of presence
If presence is detected, send (A)
1bit
Value
OFF
ON
If presence still is, send (B)
1bit
Value
OFF
ON
Detect min. delay time for telegram B [0..255,0=inactive]
60
s
If presence still is, send (C)
1bit
Value
OFF
ON
Detect min. delay time for telegram C [0..255,0=inactive]
60
s
Cyclically send the last telegram [0..255,0=inactive]
0
s
Follow-up time [10...65535]
120
s
Overwrite time setting during download
Retrigger function of detector
Telegram D&E refer from telegram C&B
telegram missing



5.4.1.1 (1) “Output” -Master

B

3 A / B / C k

A B C k A / B / C

A B / C k

I , (A)

A No telegram k

N a

1

1

2

- **O a a**

1byte 2byte k

1byte

1 a

1 a a

S

HVAC

2byte

2 a

T a a

- **Va**
- **Va a a**
- **Va a**

k k

/ 1bit / k

- **D . a a B [0..255, 0= a]**

B k B k **0..255**

0 B k

A

B k **A** k

- **D . a a C [0..255, 0= a]**

C k C k **0..255**

0 C k

B **B** k

C a a a [0...255,0= a]

k **0..255**

A ˚ B ˚ C C C

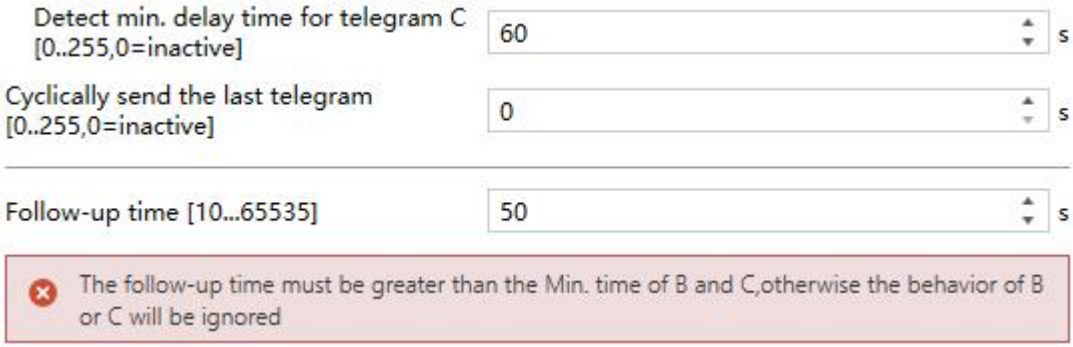
k C B B A k

F - [10...65535]

k **10..65535**

A B C k

B C **60** **50**



O a

k - -

k

R

k

k B C B

B B C C k

A ! B ! C D ! E ! F k

A B C

D ! E C ! B k D ! E F

D ! E ! F k

A-B-C

k **B-C** **B**

B **B** **C** **C** k

k

T a D&E a C&B

C ! B D ! E D ! E D C E B

k B E C D k

CB DE

DE

In this case,whether the telegram E send or not will depend on the telegram B,while the same concept that D depends on C,please check your application to avoid misundersanding when telegram missing

E

3 D / E / F k

D E F k D / E / F

D E / F k

I , (D)

D No telegram k

N a

1

1

2

O a a

1byte 2byte k

1byte

1 a

1 a a

S

HVAC

2byte

2 a

T a a

Va

Va a a

Va a

k k

/ 1bit / k

D a a [0..255]

E k E k **0..255**

D a a [0..255]

F k F k **0..255**

C a a a [0..255,0= a]

k **0..255**

D E F F F k

F E E D k

D a a [0..255]

OFF k **0..255**

D E F k

1

k k k

2 k

k

D a a a a

k

A

k OFF

ON k **ABCDEF** k

5.4.1.1 (2) “Output” -Slave

I ,

k **ON**

C a a [0..255,0= a]

k **0..255**

ON OFF k

F -

10

D a a [0..255]

OFF k **0..255**

5.4.1.2.

D a

A a =1/S -a a =0

A a =0/S -a a =1

O a a

k - -

k

Wa a a a - -a a [0...255]

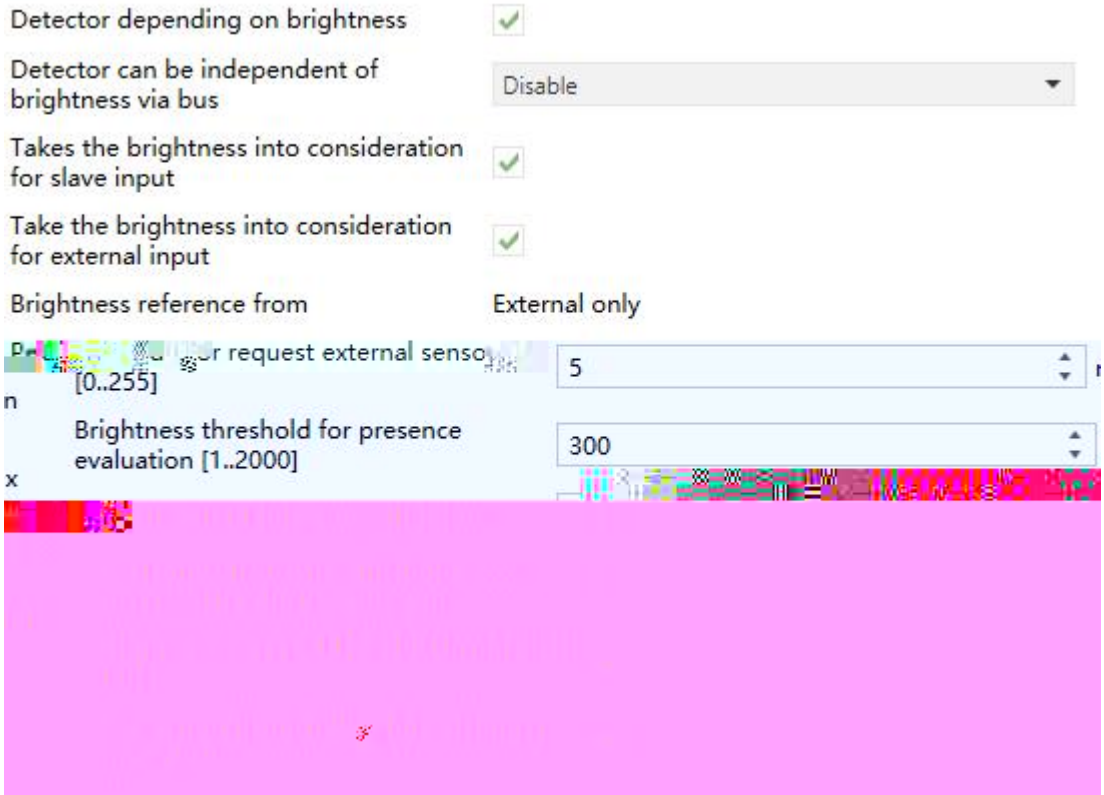
k **0..255**

k

k

5.4.1.3. B

k



5.4.1.3(1) “Brightness”-Master

D

k k

D a a

k

D a

D =1/I =0

D =0/I =1

Disable k

Depending=1/Independent=0

0 1 k

Depending=0/Independent=1 k

Ta a a

“Input slave” k k

ON k

k

Ta a a

k

k

k

k

B

k

I a

E a

I a + E a

k

KNX KNX

k

W a a a

Internal + External k k

10% I a 90% E a
20% I a 80% E a
...

90% l a 10% E a

k

P a [0..255]

...External... k k **0..255**

B a a [1..2000]

k **1..2000**

k

H

k **10..200**

+

k

k

E a a T +H

+

k **1..10**

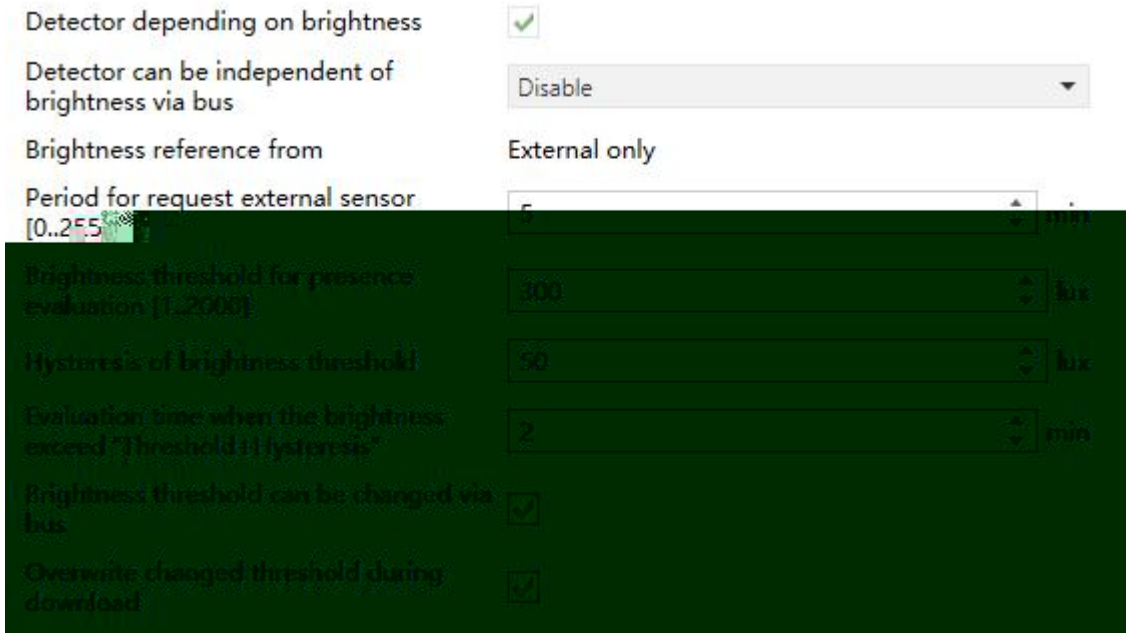
B a a a

k

O a a

k k -

- k

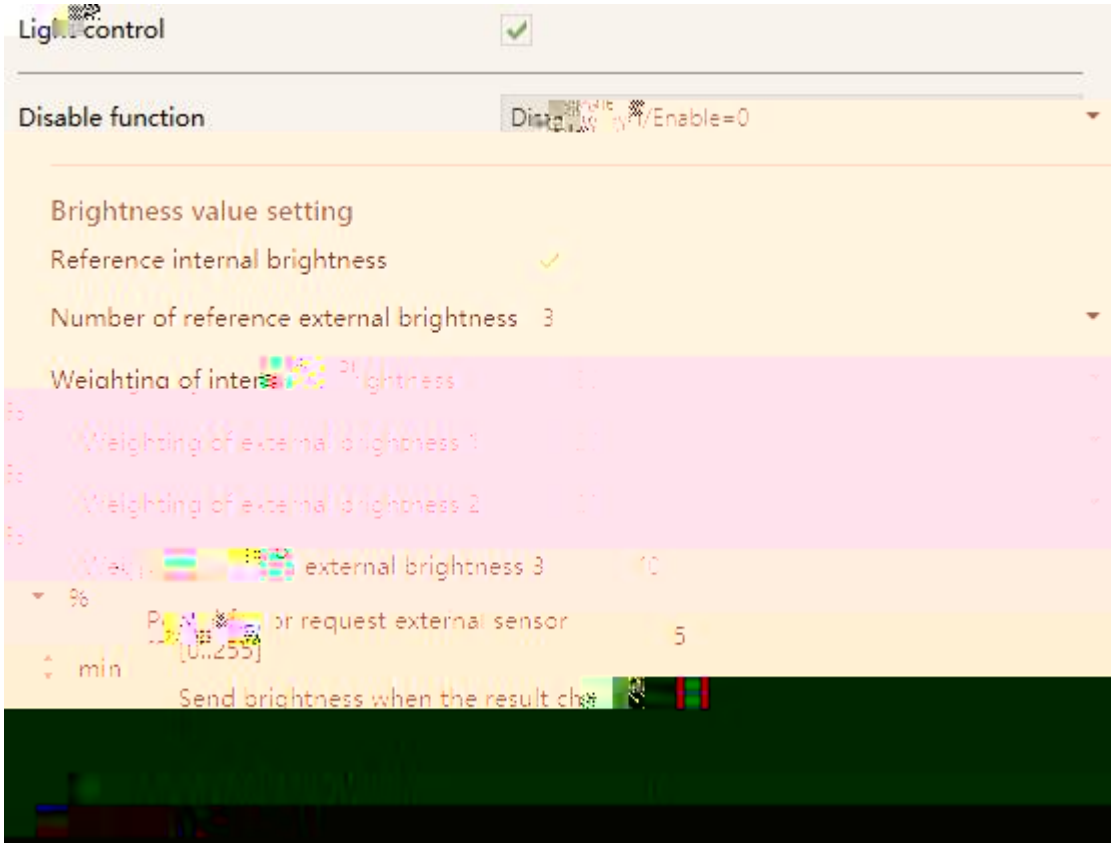


5.4.1.3(2) “Brightness”-Slave

/ k

k

5.5. L



5.5 “Light control”

L

k

k

k

D a

/ k

D a

D a =1/E a =0

D a =0/E a =1

k

B a

R a	
KNX CSBPM-04/00.1.0x	KNX CSBP-04/00.1.0x

k

k

! ! +

3 k

N a

k

0 / 1 / 2 / 3

1 / 2 / 3

W a
W a (=1 3)

k

10%
20%
...
100%

k

k

1.

k

2. KNX KNX

k

P a [0..255]

External sensor k k

0 ..255

k

S a

k

k Disable k

D a

5

10

15

...

100

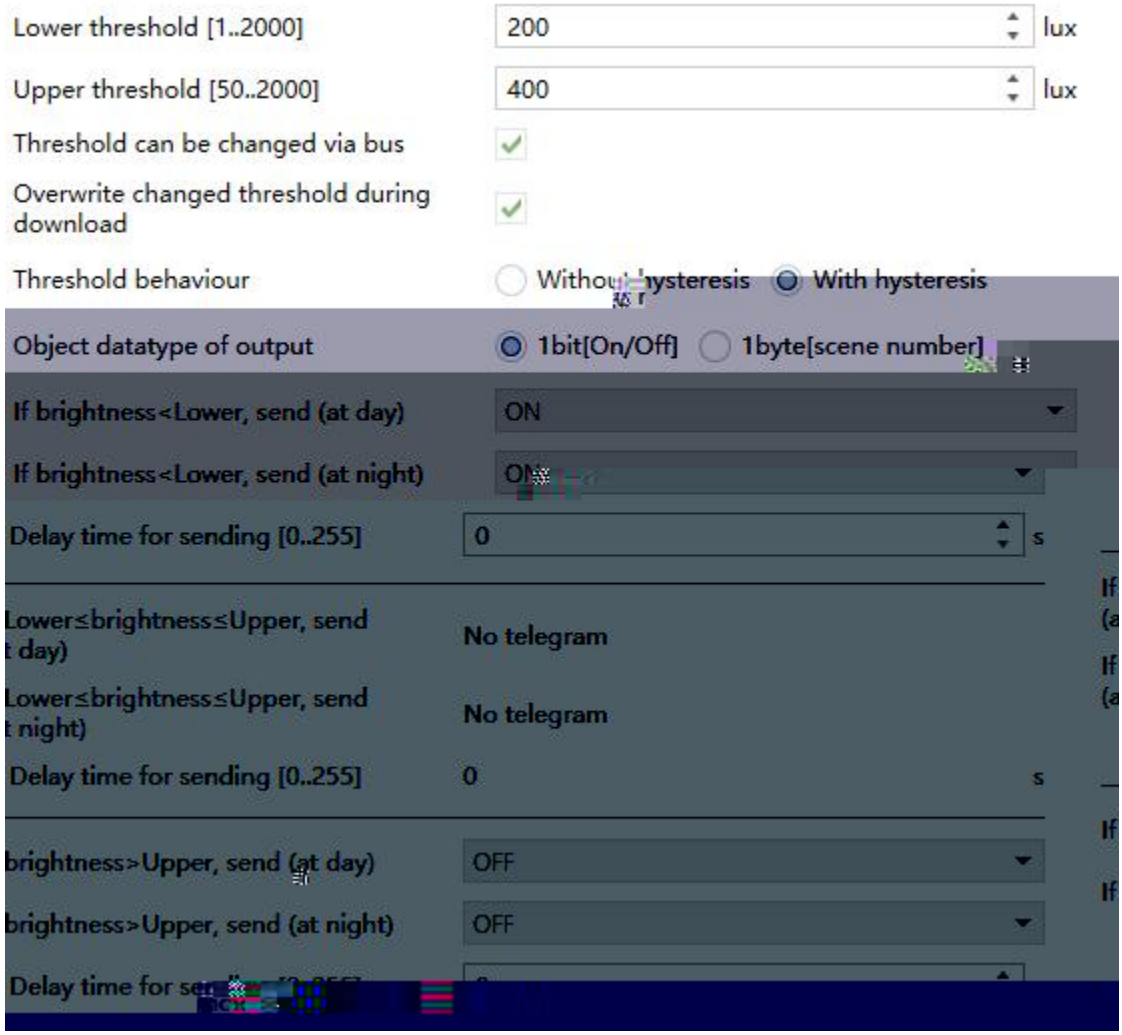
C a [0...255,0= a]

k k 0 k

0..255

k

5.5.1. O



5.5.1 “Output”

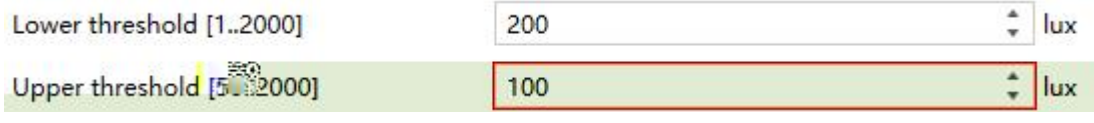
L [1..2000]

k **1..2000**

U [50..2000]]

k **50..2000**

< ETS



T a a a

k

O a a

k k -

- k

T a

k

W

W

k

O a a

k

1 [O /O]

1 [ ]

/ k

I <L ,

I <L , (a a)

I <L , (a)

k / /

k

1bit

N a

ON

OFF

1byte

N a

S N .1
S N .2
...
S N .64

D a [0..255]

k 0..255

k

I L U ,
I L U , (a a)
I L U , (a)

k / /

k

1bit

N a
ON
OFF

1byte

N a
S N .1
S N .2
...
S N .64

N a 0 k

D a [0..255]

k 0..255

k

I >U ,
I >U , (a a)

I >U , (a)

k / /

k

1bit

N a

ON

OFF

1byte

N a

S N .1

S N .2

...

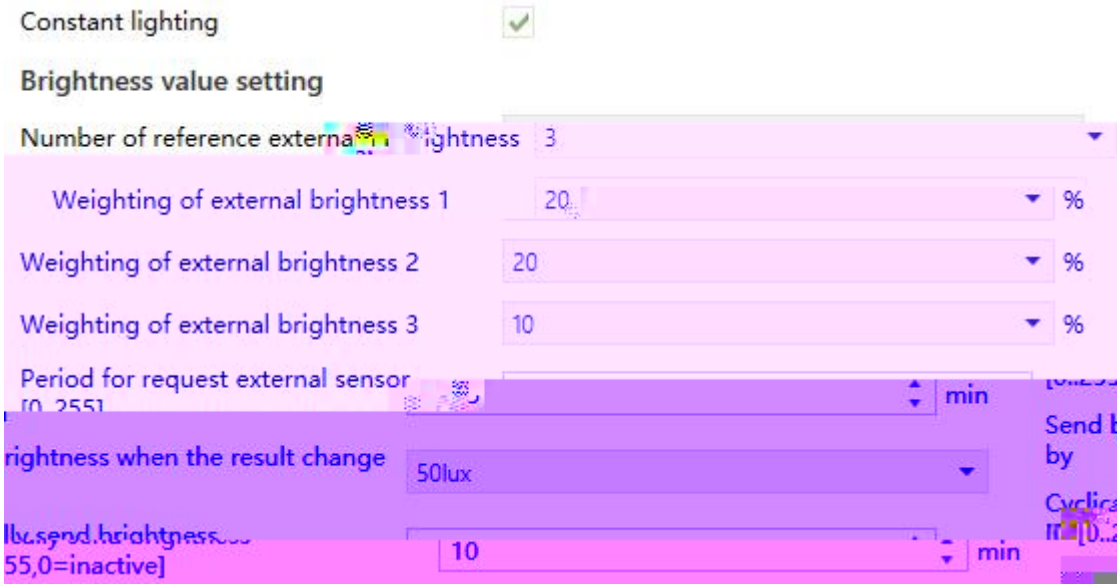
S N .64

D a [0..255]

k **0..255**

k

5.6. C a



5.6 “Constant lighting”

C a

, k

k

B a

R a

KNX CSBPM-04/00.1.0x KNX CSBP-04/00.1.0x

k

k

! ! +

3 k

N a

k

0 / 1 / 2 / 3

1 / 2 / 3

W a

W a (=1 3)

k

10%

20%

...

100%

k

k

1.

k

2. KNX KNX

k

P a [0...255]

External sensor k k

0 ..255

k

S a

k

k Disable k

D a

5

10

15

...

100

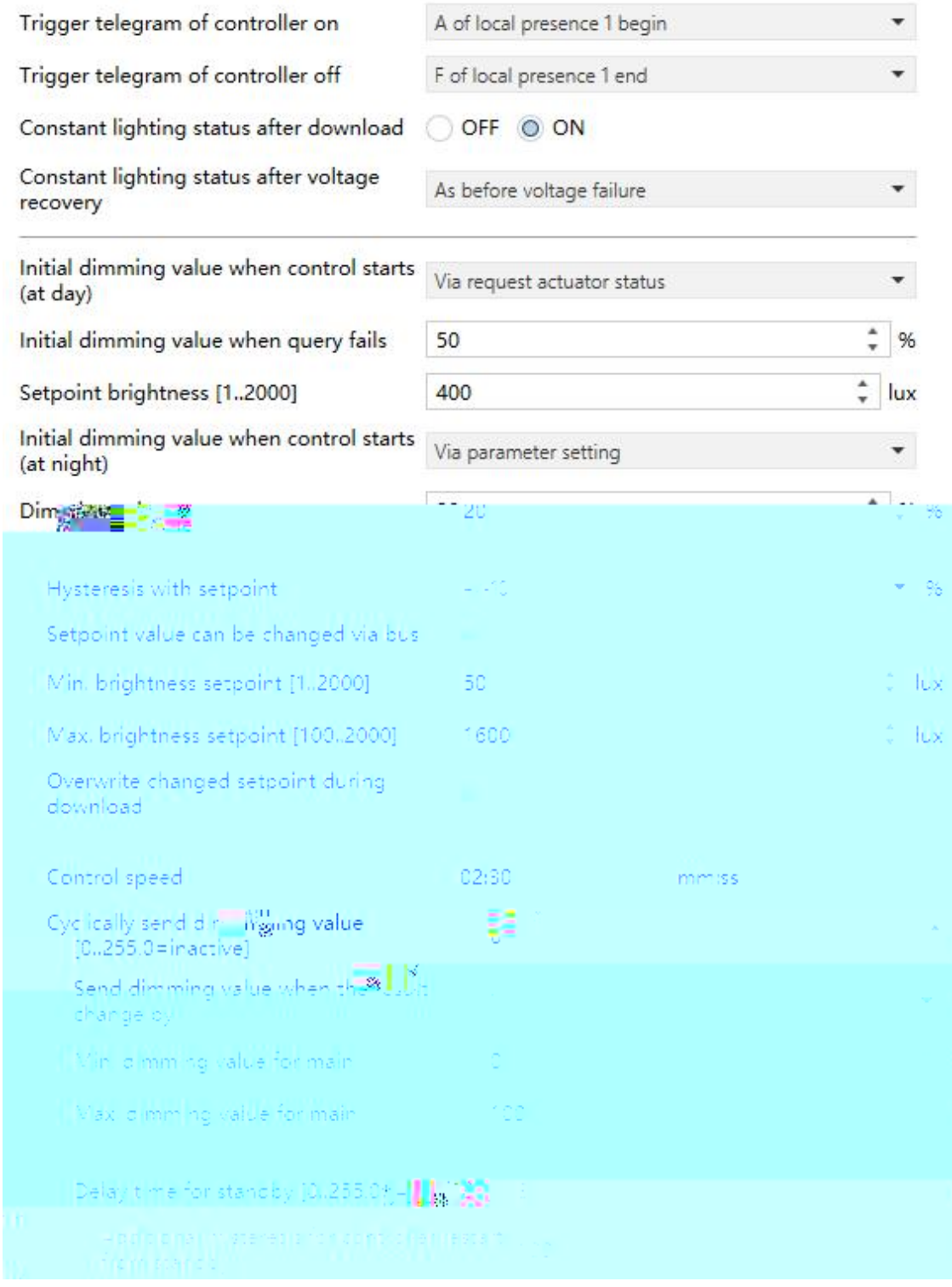
C a [0...255,0= a]

k k 0 k

0..255

k

5.6.1. O



5.6.1 “Output”

T a

k

ON a

A a 1

B a 1

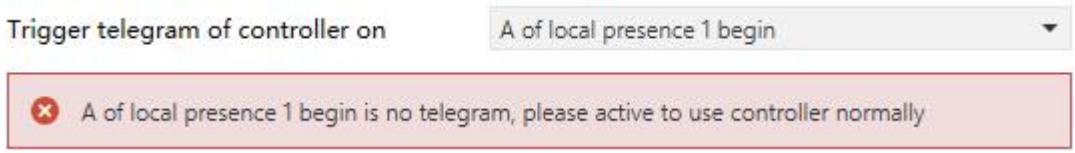
...

A a 4

None **ON a**

k

1 A



T a

k

OFF a

D a 1

E a 1

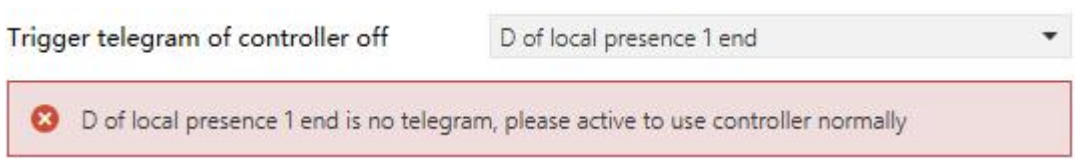
...

D a 4

None **OFF a**

k

1 D



k

C a a a a

k

OFF

ON

C a a a a

k

OFF

ON

A a a

I a a a (a a)

/

k

V a a a

V a a a a

V a a a a a

k

I a a

“Via parameter setting” k k **1..100%**

I a a a

“Via query actuator status” k 0 k

1..100%

S [1..2000]

k **1..2000**

I a a a (a)

/ k k

V a a a

V a a a a

V a a a a a

k

D a

Via parameter setting k k **1..100%**

D a a

Via query actuator status k 0 k

1..100%

S [1..2000]

Via calculate start value k k **1..2000**

H

k

+/-5%

+/-10%

+/-15%

+/-20%

= Ô

+ +

- - k

S a a a a

k

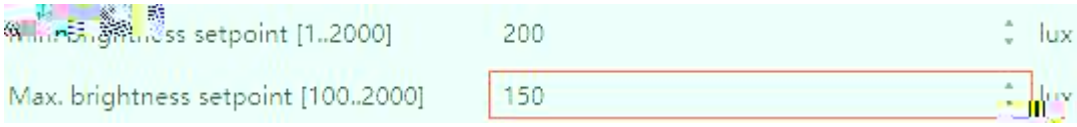
M . [1..2000]

Ma . [100..2000]

k

1..2000 **100..2000**

ETS



O a a

k - -

k

C

k 200 1

0.5% k **2:30..20:00 :**

C a a [0...255,0= a]

k 0 k **0..255**

k

S a

k

1%
2%
3%
4%
5%

M . a a

Ma . a a

/ k

0..50 % **51..100 %**

D a a [0..255,0= a]

k **0..255**

+

0% k 0 k

k

A a a a

0 k k

0..255

“ - - ” k **- -**

50 LUX **50 LUX** k

S

k 1bit/4bit/1byte

k

OFF k

C a a a a a [0..255,0= a]

k k 0

k k

0..255

Ma /S a

/ k

N

4 k

C

k

Ca a a a /

Ca a a /

Ca a a a

I a (=1 4)

x

k

V (0.5),
H (0.6),
M (0.7),
L (0.8),
V (0.9),
N a (1)
V (1.2), a
L (1.4), a
M (1.6), a
H (1.8), a
V (2.0), a

No change (x1) k

Very high (x0.5), window Very high (x2.0), wall

k

k

Ca a a

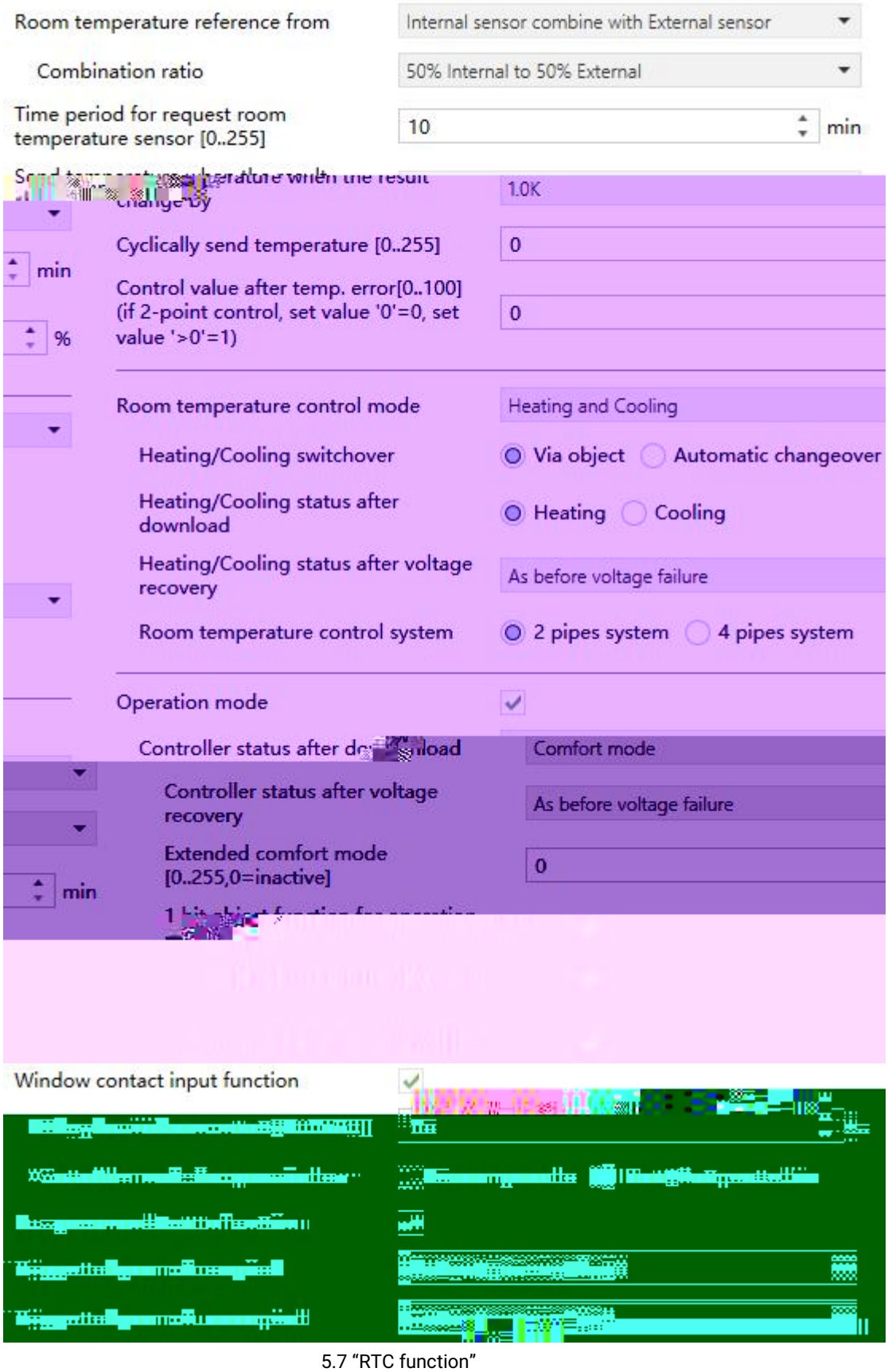
M . a (=1)

□ □□ □□□□◎

□ □ □ X c> _ÆT? m %ÆUSUÒ- / k

0..50 %

5.7. RTC



5.7 “RTC function”

R a

k

I a

E a

I a E a

“Internal sensor measurement” 5.3 k

P a [0...255]

“...External sensor” k k

0..255

I a E a k

C a a

k

10% I a 90% E a
20% I a 80% E a
...
90% I a 10% E a

“40% Internal to 60% External” 40% 60%

= ×40% + ×60%

k

k

S a a

k D

10K

C a a [0...255]

0 k **0..255**

k

C a a . [0..100] (2- , a '0'=0, a '>0'=1)

k **0..100 %**

0 0 0

1 k

R a

k

H a

C

H a a C

H a a C k

H a /C

/ k

V a

A a a

H a /C a a a

RTC / k

H a

C

H a /C a a a

RTC / k

H a

C

A a a

As before voltage failure k

k

R a

RTC k

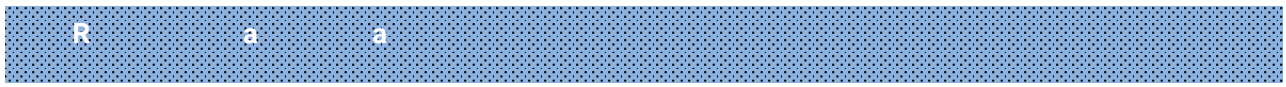
2

4

2 pipes system k

4 pipes system

k



RTC k

! ! 4 1bit 1byte

k

k

C a a a

RTC k

C

S a

E

C a a a

RTC k

C

S a

E

F / a

A a a

E [0..255,0= a]

k >0 1bit “Extended comfort mode”

k **0..255**

1 1

k k

/ k

1 a

1bit k 1

! 0 k

1 a

k 1bit k

k

I a a (-C)

k

10.0
10.5
...
35.0

The setpoint is less than minimum,so minimum will regard as setpoint in fact

The setpoint is greater than maximum,so maximum will regard as setpoint in fact

A a H/C a a /

U /L a

“Heating and Cooling” “Automatic changeover” k

/ k

0.5K

1.0K

...

10K

+

- k

Fa a .

k

W a

k k

D a a [0..65535]

k **0..65535**

C

open k

! / k

k

E

F / a

B

k k

k /

k

k k

T a

k

E a

A a 1

B a 1

C a 1

A a 2

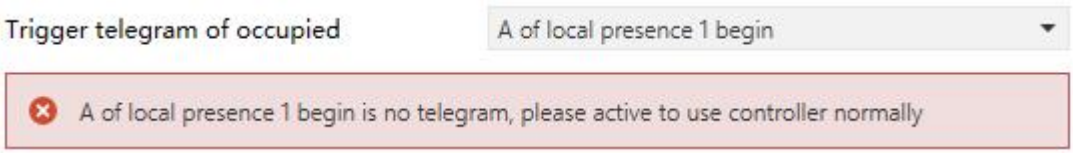
A a 3

A a 4

None **E a**

k

1 A



T a

k

E a

D a 1

E a 1

F a 1

D a 2

D a 3

D a 4

None **E a**

k

1 D

M ./Ma . a [5..37]-C

k k

k

5 C

6 C

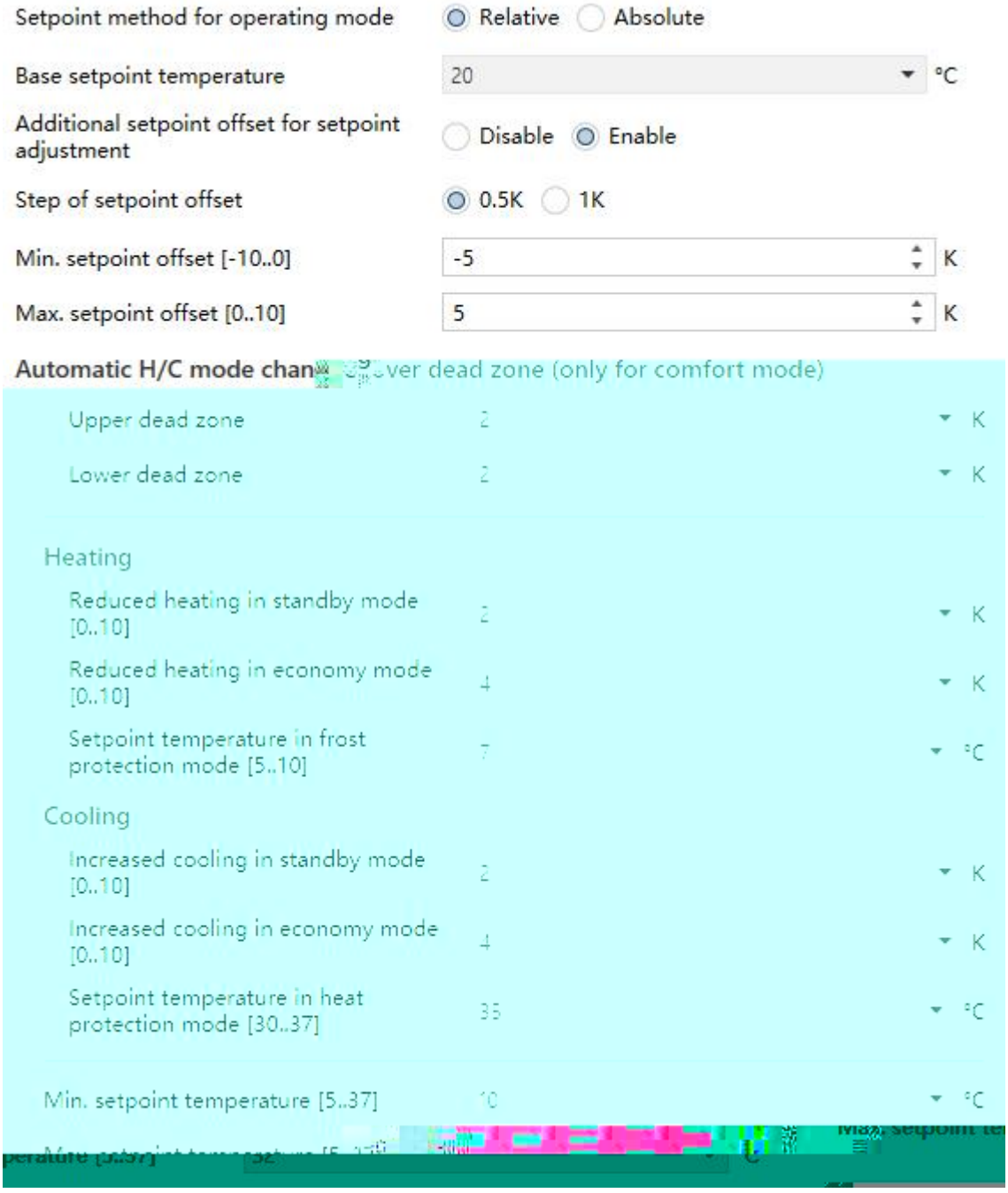
...

37 C

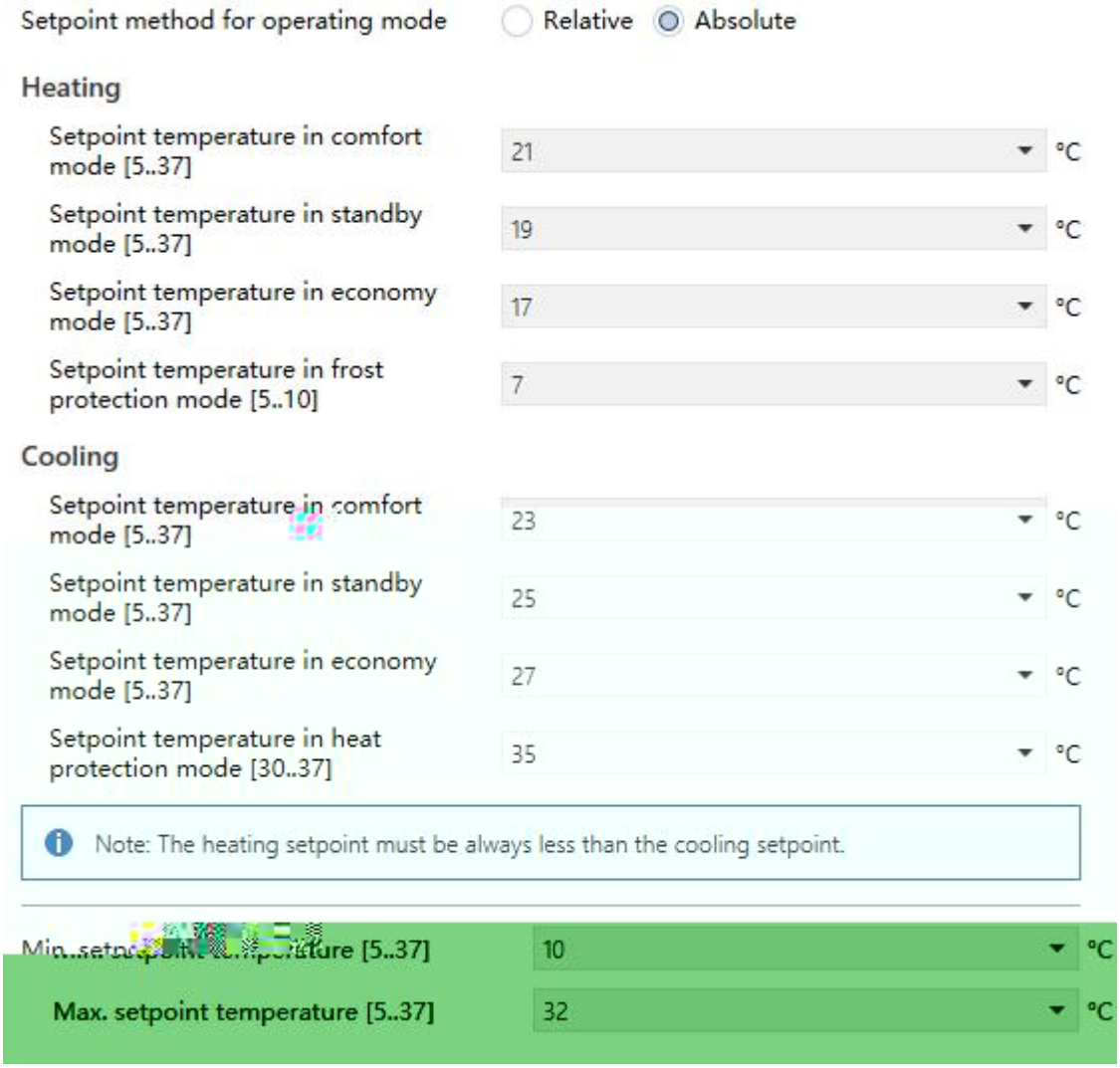
ETS k

“Setpoint” k

5.7.1. S



5.7.1(1) Setpoint_Relative”



5.7.1(2) “Setpoint_Absolute”

k

S a

k

R a

A

Relative k

Absolute k

k

Ba a (-C)

k

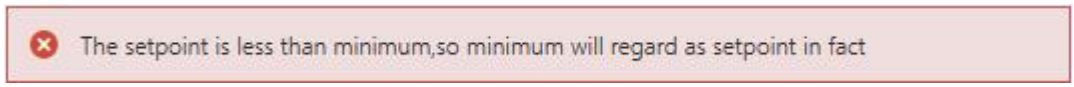
10.0

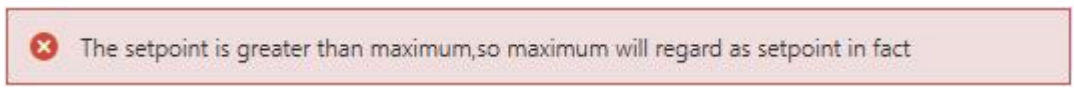
10.5

...

35.0

“Base setpoint adjustment” k





= +/-

k !

k

A a a

1bit

k

D a

E a

1bit “Setpoint offset” / 2byte “Float offset value” k 1bit “Setpoint offset reset” 2byte“Float offset value” k k k

S

/ 1- 0- k

k

0.5K

1K

= + +

/

k 1 S 2 F a a

k

M . [-10..0]K

k -10..0

Ma . [0..10]K

k 0..10

A a H/C a a ( )

U /L a

“Heating and Cooling” “Automatic changeover” k

k

0.5K
1.0K
...
10K

+

- k

R a a [0...10]K

I a a [0...10]K

k

0K
1K
...
10K

Heating

Cooling k

R a [0...10]K

I a [0...10]K

k

0K

1K

...

10K

Heating

Cooling k

S a [5...10]-C

k

5 C

6 C

...

10 C

k

S a a [30...37]-C

k

30 C

31 C

...

37 C

k

k

S a [5...37]-C

S a a [5...37]-C

S a [5...37]-C

! k

5 C
6 C
...
37 C

S a [5...10]-C

k

5 C
6 C
...
10 C

S a a [30...37]-C

k

30 C
31 C
...
37 C

Note: The heating setpoint must be always less than the cooling setpoint.

H a a C k

k

1.

k

2. ,

k

3.

/

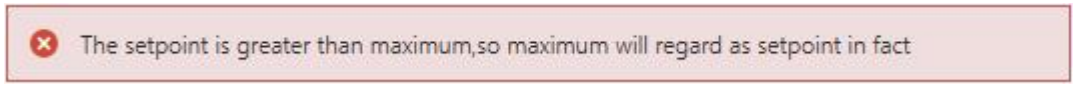
k

4.

k ETS

/ /

/ /



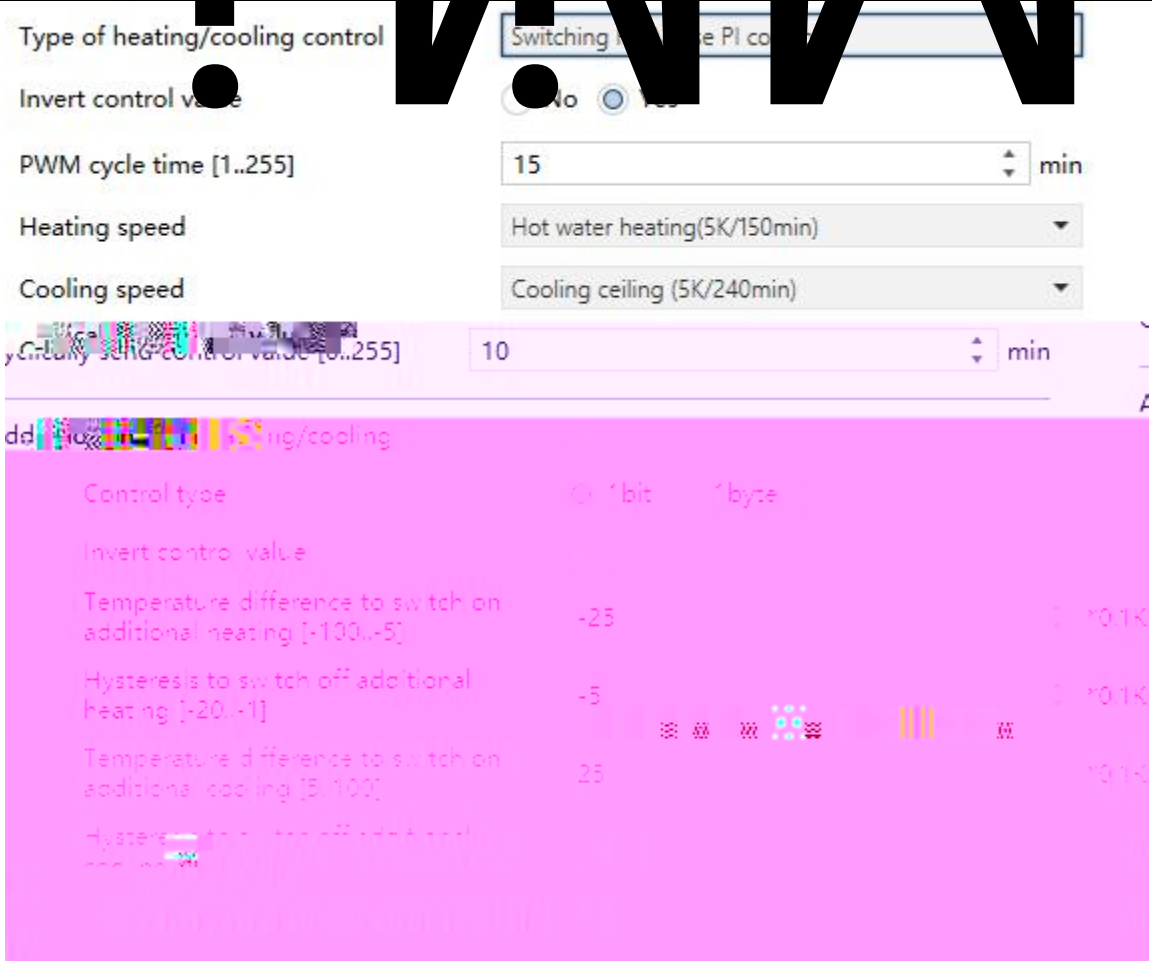
2 ! 4 Via object k

/ ETS k ETS

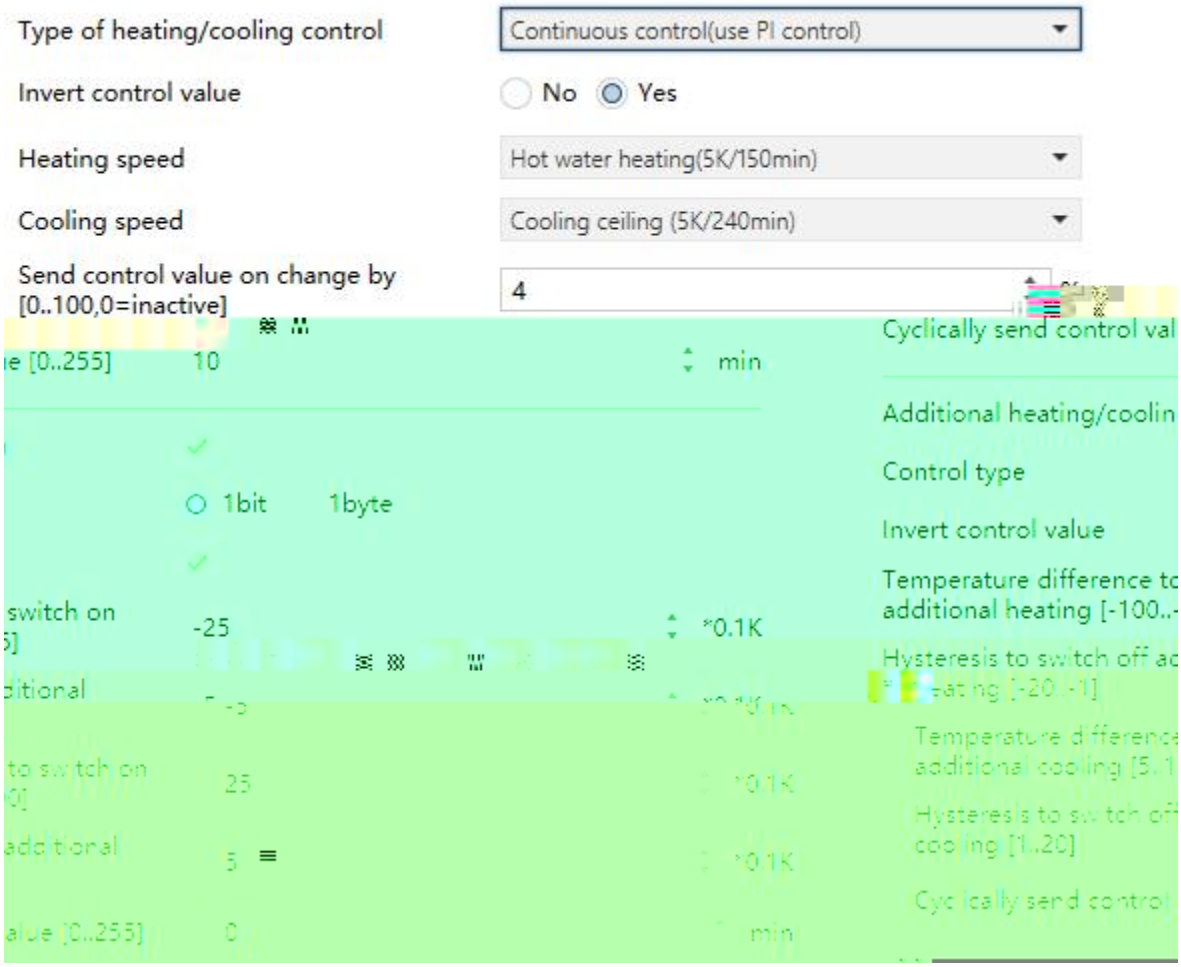
k

5.7.2. H a /C

"Switching on/off(use 2-point control)"



“Switching PWM(use



“Continuous control(use PI control)”

5.7.2(1) “Heating/Cooling control”

2 4 k

T a /

/ k

S / (2-)

S PWM(PI)

C (PI)

I a

k

N

Y

Yes k

(2)

	L	H	[0...200]*0.1K

	U	H	[0...200]*0.1K

RTC k **0..200**

T > +

T < - k

1K 2K 22℃ T 24℃

T 21℃ T 21~24℃ k

T < -

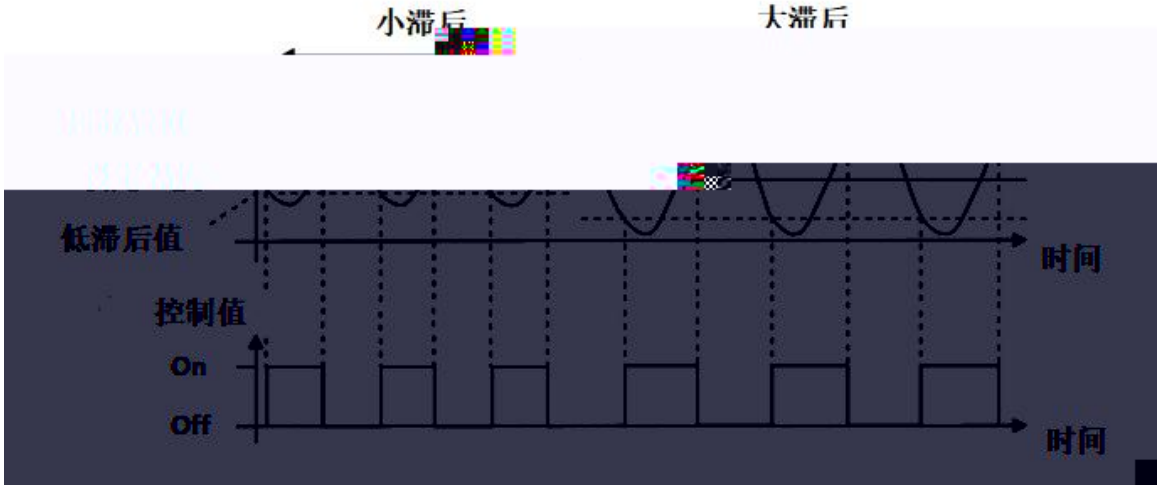
T > + k

1K 2K 26℃ T 25℃

T 28℃ T 28~25℃ k

1.

2. k



5.7.2(2) ( )

PI (PI)

H a

C

PI k k

H a a (5K/150)

U a (5K/240)

E a a (4K/100)

S (4K/90)

Fa (4K/90)

U

C (5K/240)

S (4K/90)

Fa (4K/90)

U

P a a [10..100]*0.1K (P a)

R [0..255] (I a)

“User defined” k PI PI k

10..100 (P a)

0..255 (I a)

PWM [1...255]

“Switching PWM(use PI control)”

10min, 80%

8min 2min /

k

1..255

“Switching PWM (use PI control)” “Continuous control (use PI control)” PI

“Continuous control” PI (1byte)

“Switching PWM” PI “on/off” k

S a a [0...100.0= a]%

“Continuous control (use PI control)”

k **0..100 0**

C a a [0...255]

k **0..255**

PI PI :

1

	P	**I**	**PI**	**PWM**
H a H a	5K	150min	Continuous/PWM	15min
U a	5K	240min	PWM	15-20min
E a a	4K	100min	PWM	10-15min

S	4K	90min	PWM	10-15min
Fa	4K	90min	Continuous	--

2

	P	**I**	**PI**	**PWM**
C	5K	240min	PWM	15-20mIn
S	4K	90min	PWM	10-15min
Fa	4K	90min	Continuous	--

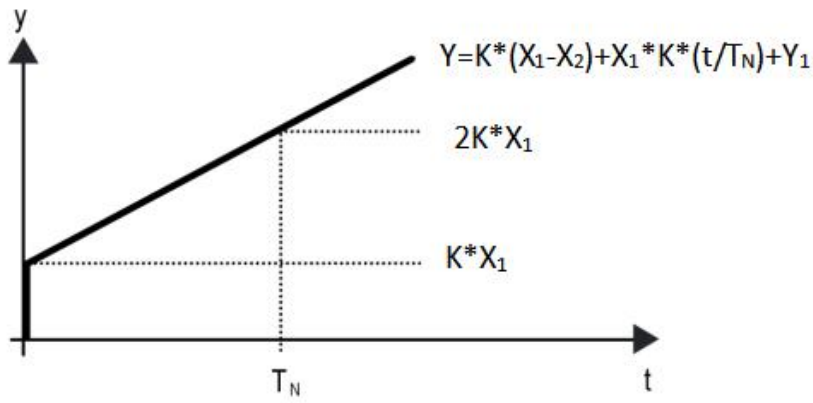
3

“Heating/Cooling speed” “User defined” P

I k PI

k

k 0 k



5.7.2(3) PI

Y

Y1

X1 =

X2 =

T_N

K

PI Y=K*(X1-X2 +X1*K*t/T_N+Y1

PI Y=K X1-X2 +Y2

K:	
K:	
T_N:	
T_N:	

A a a /

k

k

C

k

1

1

I a

k

T a a a a [-100..-5]

k **-100...-5 *0.1K**

H a a a [-20..-1]

k **-20...-1 *0.1K**

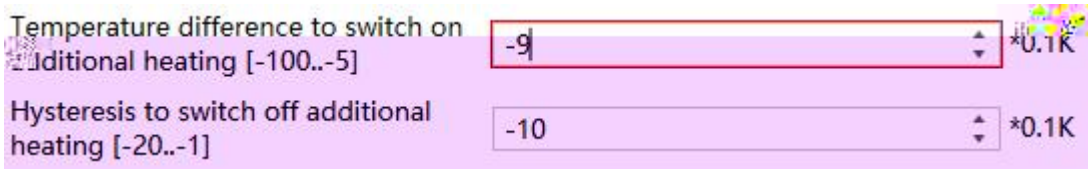
T < + k

T > + - k

-10K -2K 25, T 15,

T 17, T 15~17, k

< ETS



T a a a [5..100]

k **5...100 *0.1K**

H a a [1..20]

k **1..20 *0.1K**

> + k

< + - k

10K 5K 20, T 30,

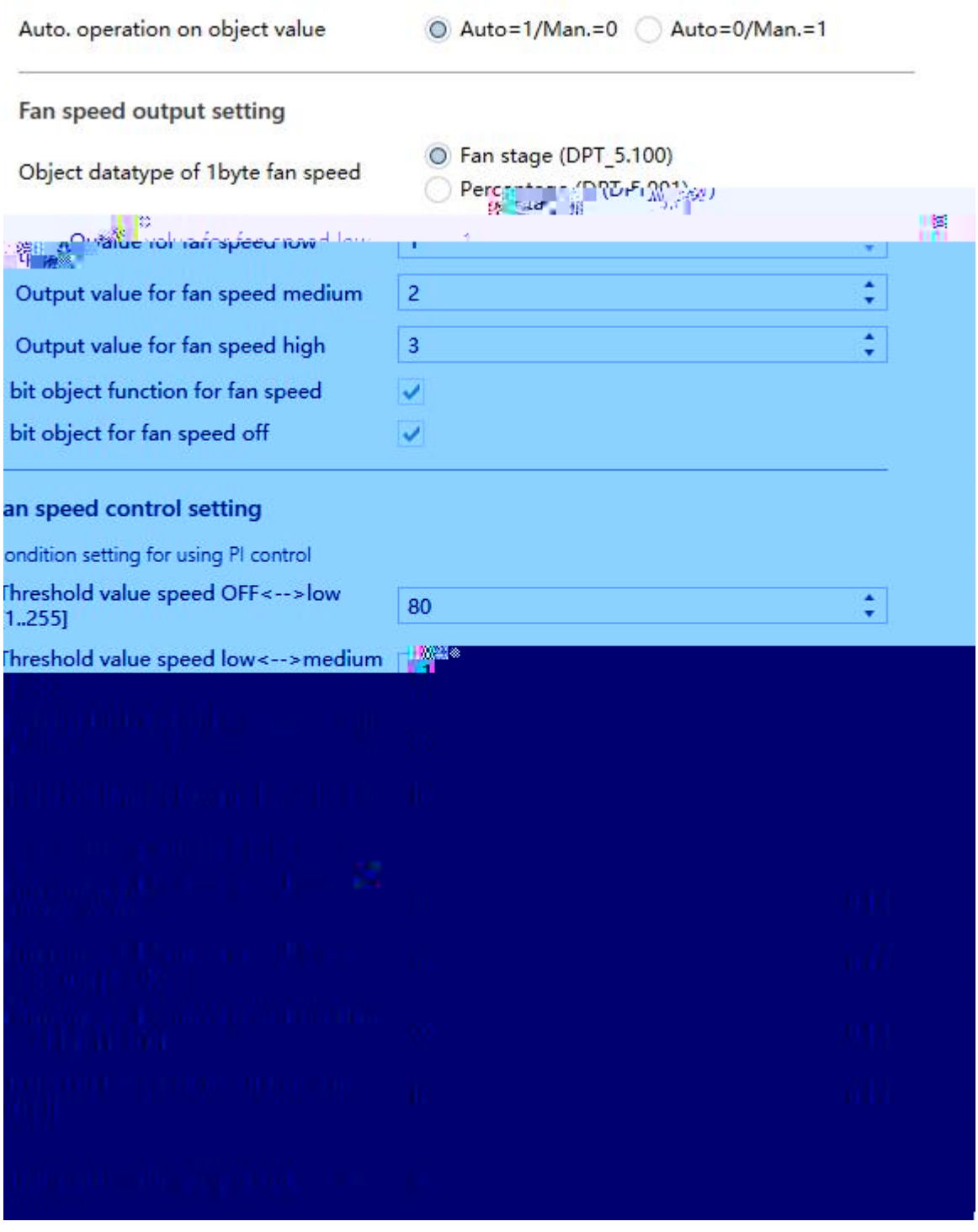
T 25, T 25~30, k

< ETS

C a a [0...255]

k **0..255**

5.7.3. Fa a .



5.3.2.1“Fan”

k

A . a a

k

A =1/Ma .=0

A =0/Ma .=1

Auto=1/Man.=0	“Fan automatic operation”	“0”	“1”
Auto=0/Man.=1	“Fan automatic operation”	“1”	“0”

k

k

Fa

0 a a 1 a

1byte k

Fa a (DPT 5.100)

P a (DPT 5.001)

0 a a / /

k 0 k

1..255 /1..100

< < ETS

1 a

1bit k 1bit k

1 a

k 1bit k

Fa

C PI PI

PI PI

k

T a OFF<--> [1..255]

k **1..255**

k

T a <--> [1..255]

k

k **1..255**

T a <--> [1..255]

k

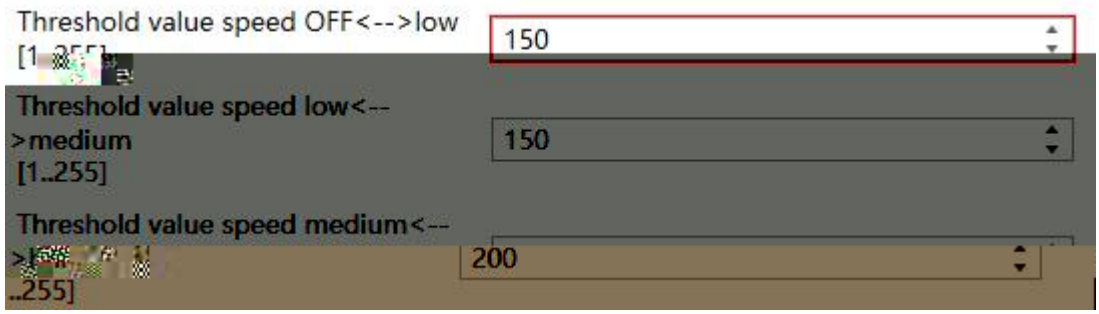
k **1..255**

k

° OFF <-> ° <-> ° <-> k

OFF <-> <-> <-> <->

k **ETS**



H a +/-[0..50]

k

0..50

0

10 50 60 + 40 -

40~60 k 40

( )60 k

C 2-

2-point k

-

- k

T a OFF<--> [1..200] *0.1K

k **1..200**

k

T a <--> [1..200]*0.1K

k

k **1..200**

T a <--> [1..200]*0.1K

k

k **1..200**

H a [0..50] *0.1K

k

0..50

0

0.5℃ 1℃ 1.5℃ +

0.5℃ - 0.5℃~1.5℃

k 0.5℃ ( )1.5℃ k

M	a	[0..65535]

k

k

k **0..65535**

0 k

k

5.8. L

“Logic funct or 5.. 8 k

5.8 “Logic function”

1 /2 /3 L

□ □ □ □ k 8 k

5.8.1. AND/OR/XOR

5.8.1 “Logic function_AND/OR/XOR”

Ba : N

0.1

1

...

10

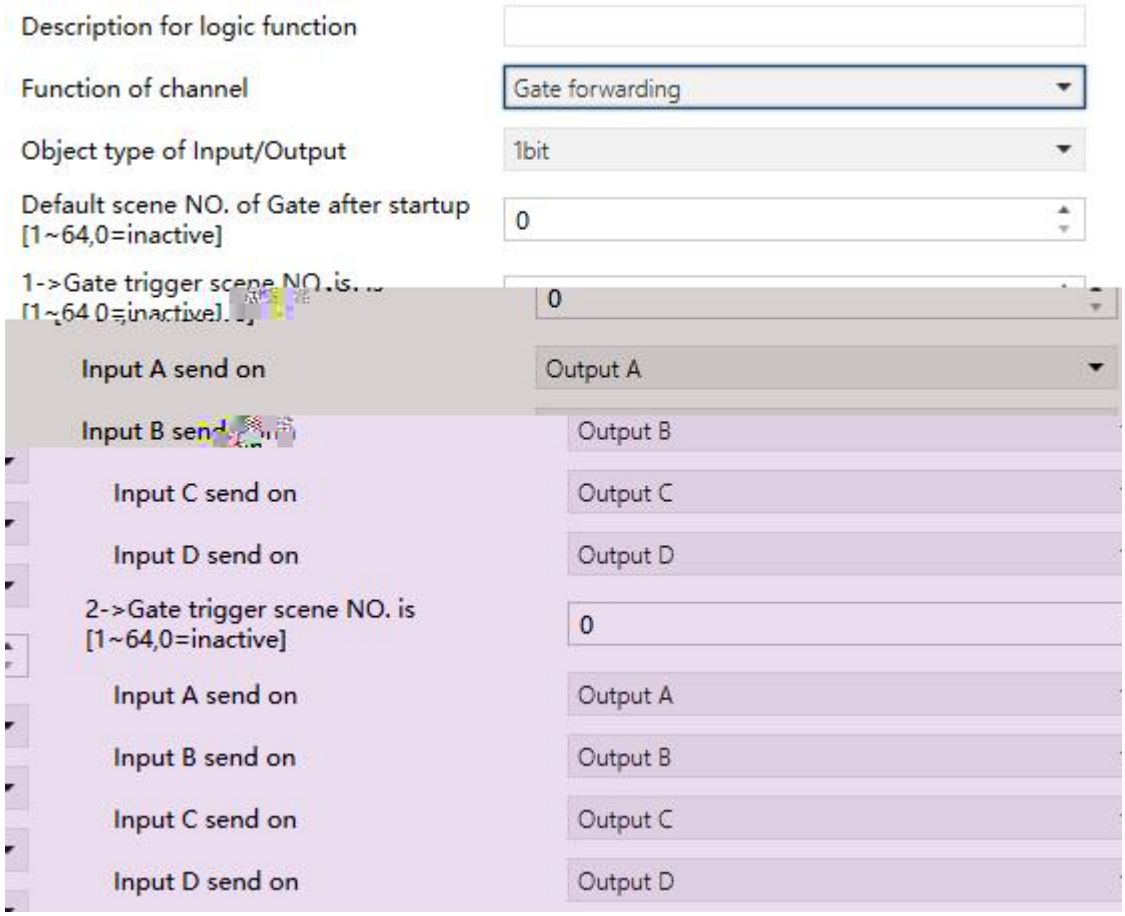
25

Fa : 1..255

k Base × Factor Base “None”

k

5.8.2. Ga a



5.8.2 “Logic function_Gate forwarding”

O I /O

/ k

1

4

1

S NO. Ga a a [1..64, 0= a]

k

1..64 0=

k

->Ga NO.[1..64,0= a] (=1 8)

k 8 k

1..64 0= k

I A/B/C/D

X (X=A/B/C/D) k

O A

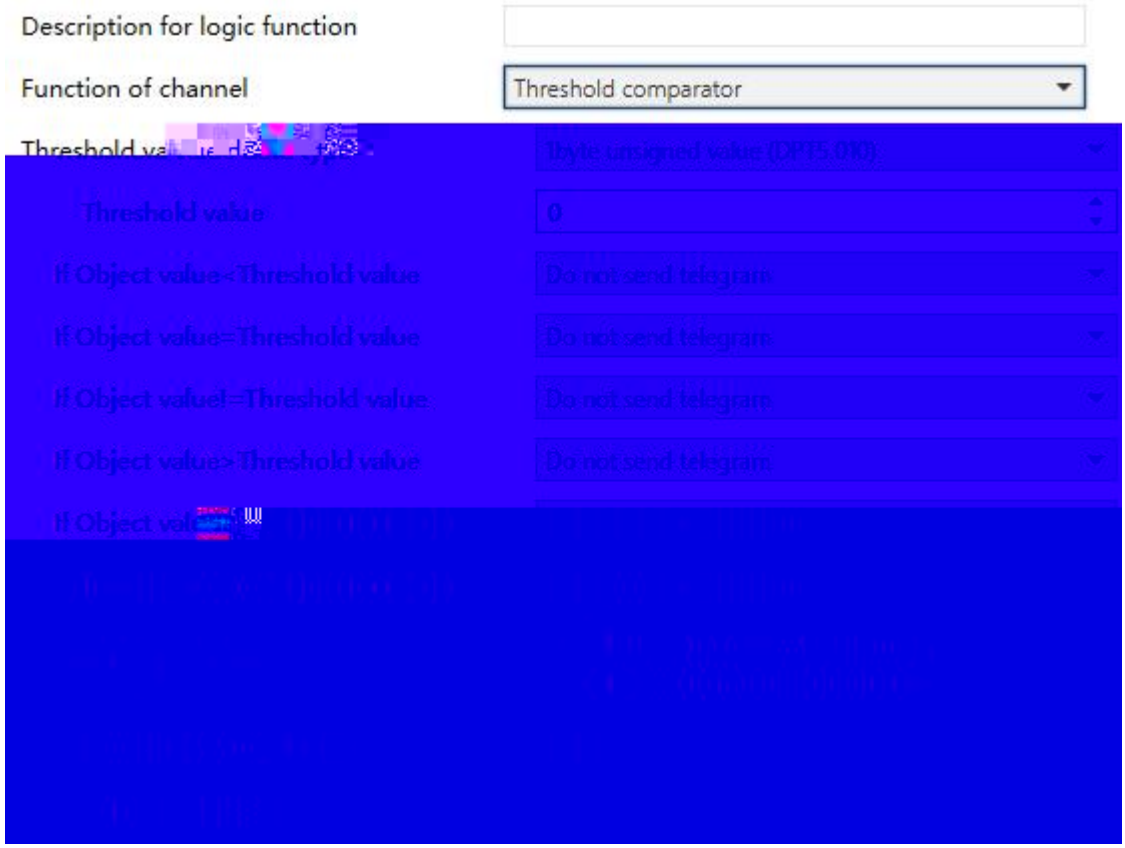
O B

...

O B,C,D

k k

5.8.3. T a a



5.8.3 “Logic function_Threshold comparator”

T a a a

k

4 a (DPT3.007) 4 a [0..4294967295]
1 a (DPT5.010) E . a a (DPT 9.001)
2 a (DPT7.001) E . a (DPT 9.007)
2 a (DPT8.) I a a (DPT 9.004)
2 a a (DPT9.)

T a

k

4 a (DPT3.007) 0..15 /1 a (DPT5.010) 0..255 /
2 a (DPT7.001) 0..65535 / 2 a (DPT8.) -32768..32767 /
2 a a (DPT9.) -670760...670760 / 4 a [0..4294967295] 0..4294967295 /
E . a a (DPT 9.001) -20..95 / E . a (DPT 9.007) 0..100% /

I a a (DPT 9.004) 0..65535

H a

“2byte float value (DPT9.x)” ! “Illuminance value (DPT 9.004)” k

k **0..500**

I O a <T a

I O a =T a

I O a !=T a

I O a >T a

I O a <=T a

I O a >=T a

! ! ! !

k “2byte float value (DPT9.x)” ! “Illuminance value (DPT 9.004)”

k

D a
S a "0"
S a "1"

Do not send telegram

Send value “0”/“1” 0 1 k

k **I O**

a =T a S a 0 I O a <=T a S

a 1 1 k

O

k

R a a
E a

Receiving a new telegram

Every change of output object k

k

S a : Ba

Ba :

N

0.1

1

...

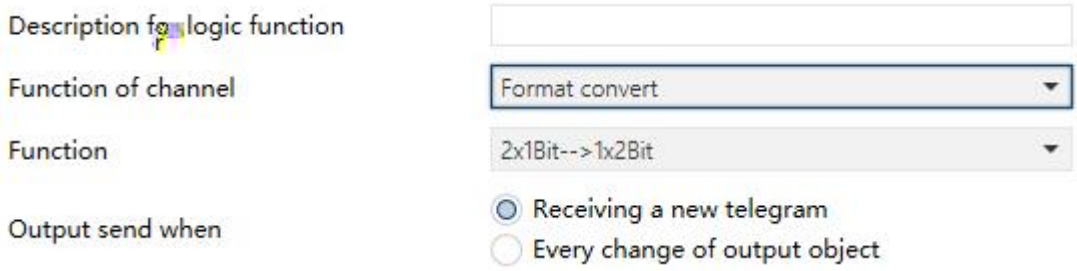
25

Fa : 1..255

k Base × Factor Base “None”

k

5.8.4. F a



5.8.4 “Logic function _Format convert”

F a

k

2 1 -->1 2
8 1 -->1 1
1 1 -->1 2
2 1 -->1 2
2 2 -->1 4
1 1 -->8 1
1 2 -->2 1
1 4 -->2 2
1 3 -->3 1
3 1 -->1 3

O

k

R a a

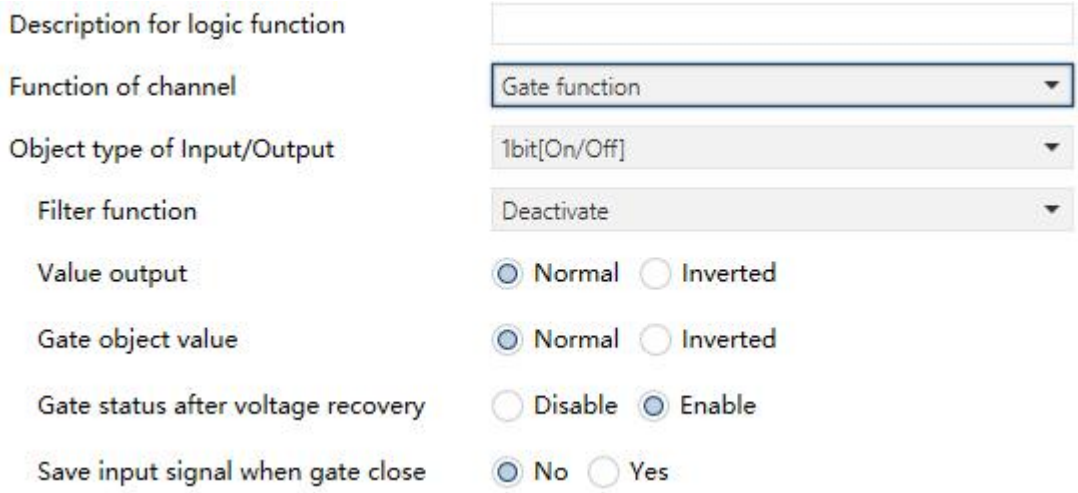
E a

Receiving a new telegram

Every change of output object k

k

5.8.5. Ga



5.8.5 “Gate function”

O I /O

/ k

1 [O /O]
1 [0..100%]
1 [0..255]
2 [F a]
2 [0..65535]

F

“1bit[On/Off]” k On Off

k

D a a
O
O

Deactivate On Off

On filter out Off On

Off filter out On Off k

Va

“1bit[On/Off]” k k

N a

I

Ga a

k

N a

I

Ga a a a

k

D a

E a

Sa a a

k

N

Y

No

Yes k

5.8.6. D a

5.8.5 “Delay function”

O I /O

/ k

1 [O /O]

1 [0..100%]

1 [0..255]

2 [F a]

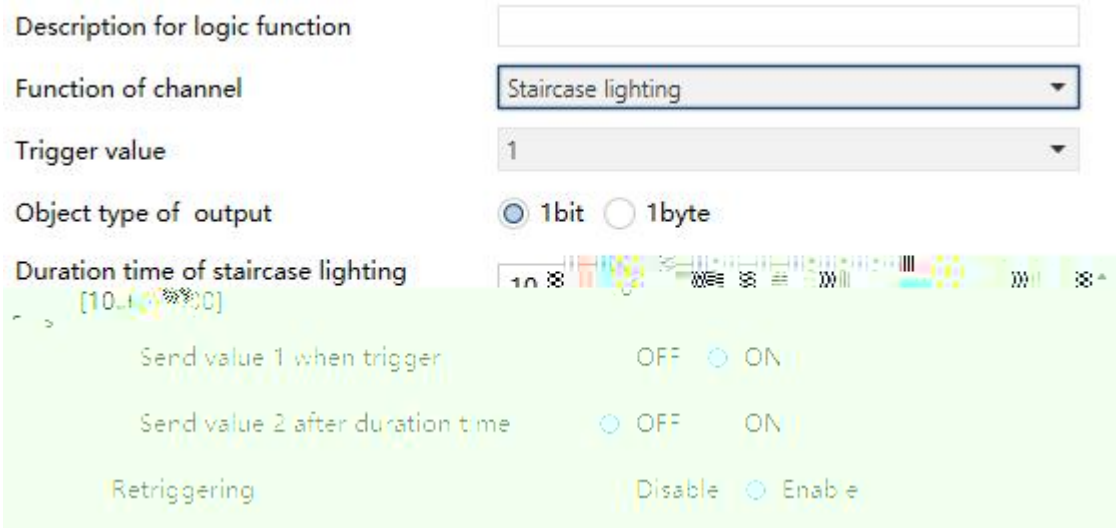
2 [0..65535]

D a [0..6500]

k **0..6500**

k

5.8.7. S a a



5.8.6 “Staircase lighting”

T a

“Trigger value” k

0

1

0 1

O

k

1

1

D a a a [10..6500]

k **10..6500**

` ` S a 1

` ` S a 2 a a

k 1 2 k

k

1bit

OFF

ON

1byte **0..255**

R

k

D a

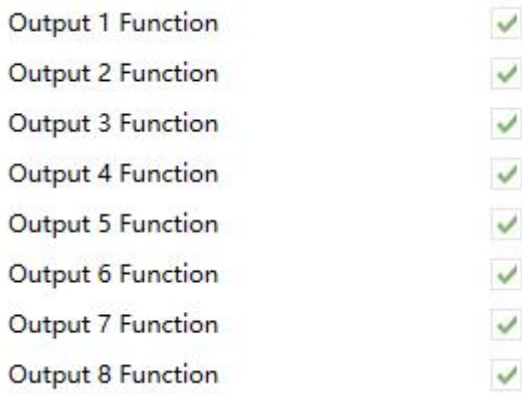
E a

5.9. S G

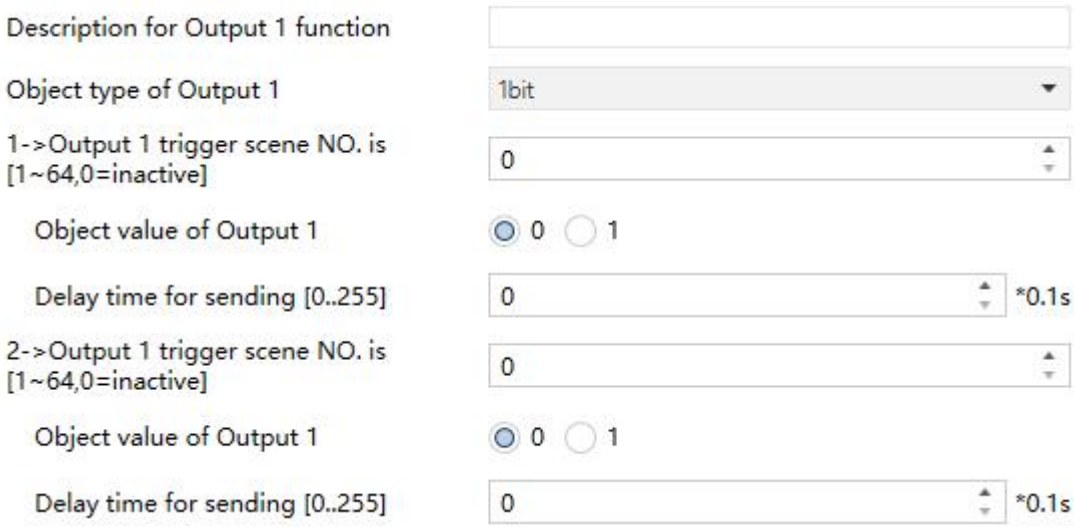
“Scene Group function” 8

8 k k

5.9(1) “Scene Group function”



5.9(2) “Group x”



5.9(3) “Output y Function”

S G F (=1 8)

x 8 k

O F (=1 8)

x y 8 k

8 8

D O (=1 8)

x y k 30 k

O O (=1 8)

x y k

1

1

2

O a a

1byte 2byte k

1byte

1 a

HVAC

2byte

2 a

T a a

->T NO.[1 64,0= a] (=1 8)

x y k 8 k

0..64 0= k

O a O

y

1bit **0..1**

1byte-1byte unsigned value **0..255**

1byte-HVAC mode

C

S a

E

F / a

2byte-2byte unsigned value **0..65535**

2byte-Temperature value

-5 C
-4 C
...
45 C

D a **[0...255]*0.1**

k : **0..255**

k

C **W** **R**

T **U** k

6.1. G a

6.1 “General”

					DPT
1	**I a**	**G a**	**1**	**C,R,T**	**1.001**
“1” k					
275	**N**	**E**	**1**	**C,W,T,U**	**1.024 a /**
/ k 0 ˚ ˚ 1 ˚ ˚					
276	**LED a**	**E**	**1**	**C,W**	**1.001**
LED k ON/OFF via external object 1-LED 0-LED Flashing via external object 1-LED 0-LED					

6.1 “General”

6.2. I a a

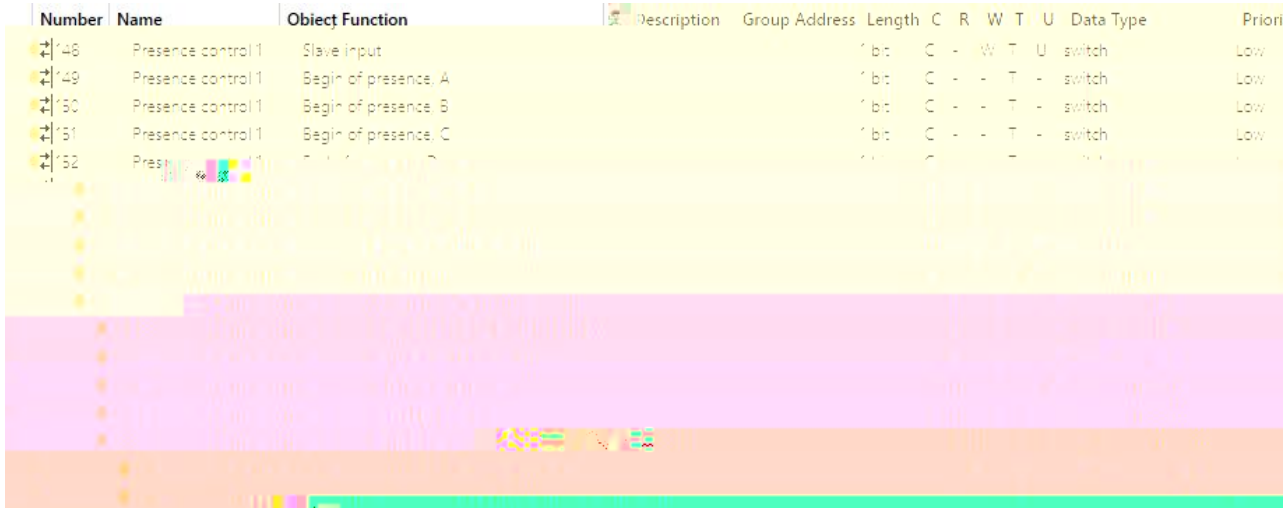
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
3	Internal sensor	Brightness value			2 bytes	C	R	-	T	-	lux (Lux)	Low
4	Internal sensor	Brightness correction[-500..500]			2 bytes	C	-	W	-	-	lux (Lux)	Low
5	Internal sensor	Temperature value			2 bytes	C	R	-	T	-	temperature (°C)	Low
8	Internal sensor	Humidity value			2 bytes	C	R	-	T	-	humidity (%)	Low
6	Internal sensor	Low temperature alarm			1 bit	C	R	-	T	-	alarm	Low
7	Internal sensor	High temperature alarm			1 bit	C	R	-	T	-	alarm	Low
9	Internal sensor	Low humidity alarm			1 bit	C	R	-	T	-	alarm	Low
10	Internal sensor	High humidity alarm			1 bit	C	R	-	T	-	alarm	Low

6.2 “Internal sensor measurement”

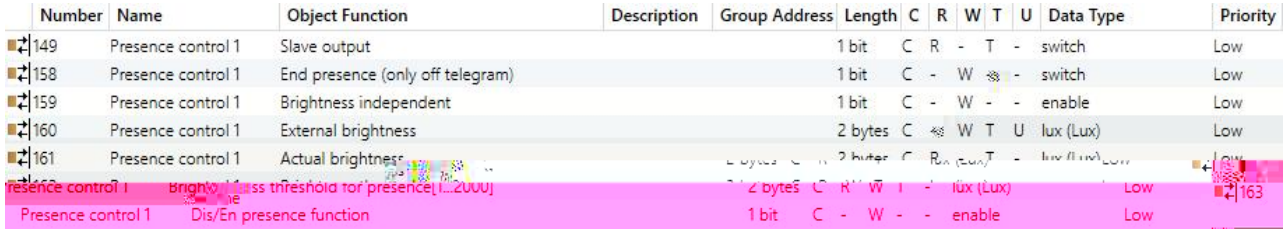
					DPT
3	**B a**	**I a**	**2**	**C,R,T**	**7.013 ( ) 9.004**
KNX CSBPM-04/00.1.0x KNX CSBP-04/00.1.0x k k k					
4	**B [-500...500]**	**I a**	**2**	**C,W**	**8.001**
KNX CSBPM-04/00.1.0x KNX CSBP-04/00.1.0x k k -500...500 k					
5	**T a a**	**I a**	**2**	**C,R,T**	**9.001 a**
k -50~99.8℃					
6	**L a a a**	**I a**	**1**	**C,R,T**	**1.005 a a**
k					
7	**H a a a**	**I a**	**1**	**C,R,T**	**1.005 a a**
k					
8	**H a**	**I a**	**2**	**C,R,T**	**9.007**
k 0~100%					
9	**L a a**	**I a**	**1**	**C,R,T**	**1.005 a a**
k					
10	**H a a**	**I a**	**1**	**C,R,T**	**1.005 a a**
k					

6.2 “Internal sensor measurement”

6.3. P



Presence function-Master



Presence function-Slave

6.3 “Presence function”

					DPT
148	**S a**	**P 1**	**1**	**C,W,T,U**	**1.001**
k k 1 k k					
149	**S a**	**P 1**	**1**	**C,R,T**	**1.001**
k k					
149	**B , A**	**P 1**	**1**	**C,T**	**1.001** **5.001 a** **5.010** **17.001** **20.102 HVAC** **9.001 a**
150	**B , B**	**P 1**	**1**		
151	**B , C**	**P 1**	**2**		
k No telegram k					

k

152	**E , D**	**P 1**	**1**	**C,T**	**1.001** **5.001 a** **5.010** **17.001** **20.102 HVAC** **9.001 a**
153	**E , E**	**P 1**	**1** **2**		
154	**E , F**	**P 1**			

k

No telegram k

k

155	**F - [1...65535]**	**P 1**	**2**	**C,W, R**	**7.005 ( )**

k

k

k

156	**E a**	**P 1**	**1**	**C,W**	**1.017**

k

k

k

157	**A . /S -A .**	**P 1**	**1**	**C,W**	**1.003 a**

k

k

158	**E (a)**	**P 1**	**1**	**C,W,U** **C,W**	**1.001**

! k C,W,U C,W k

OFF

k ON k

159	**B**	**P 1**	**1**	**C,W**	**1.003 a**

! k

k

160	**E a**	**P 1**	**2**	**C,W,T,U**	**9.004 ( )**

! k

k

161	**A a**		**P**	**1**	**2**	**C,R,T**	**9.004**	**(**

KNX CSBPM-04/00.1.0x KNX

CSBP-04/00.1.0x k

! k

k

162	**B** **[1...2000]**		**P**	**1**	**2**	**C,W,R,T**	**9.004**	**( )**

! k

k

k

163	**D /E**		**P**	**1**	**1**	**C,W**	**1.003**	**a**

! k

k

164	**P**	**D /E**	**P**	**1**	**1** **1** **2**	**C,T**	**1.001** **5.001** **5.010** **17.001** **7.001**	**a**

k

k k

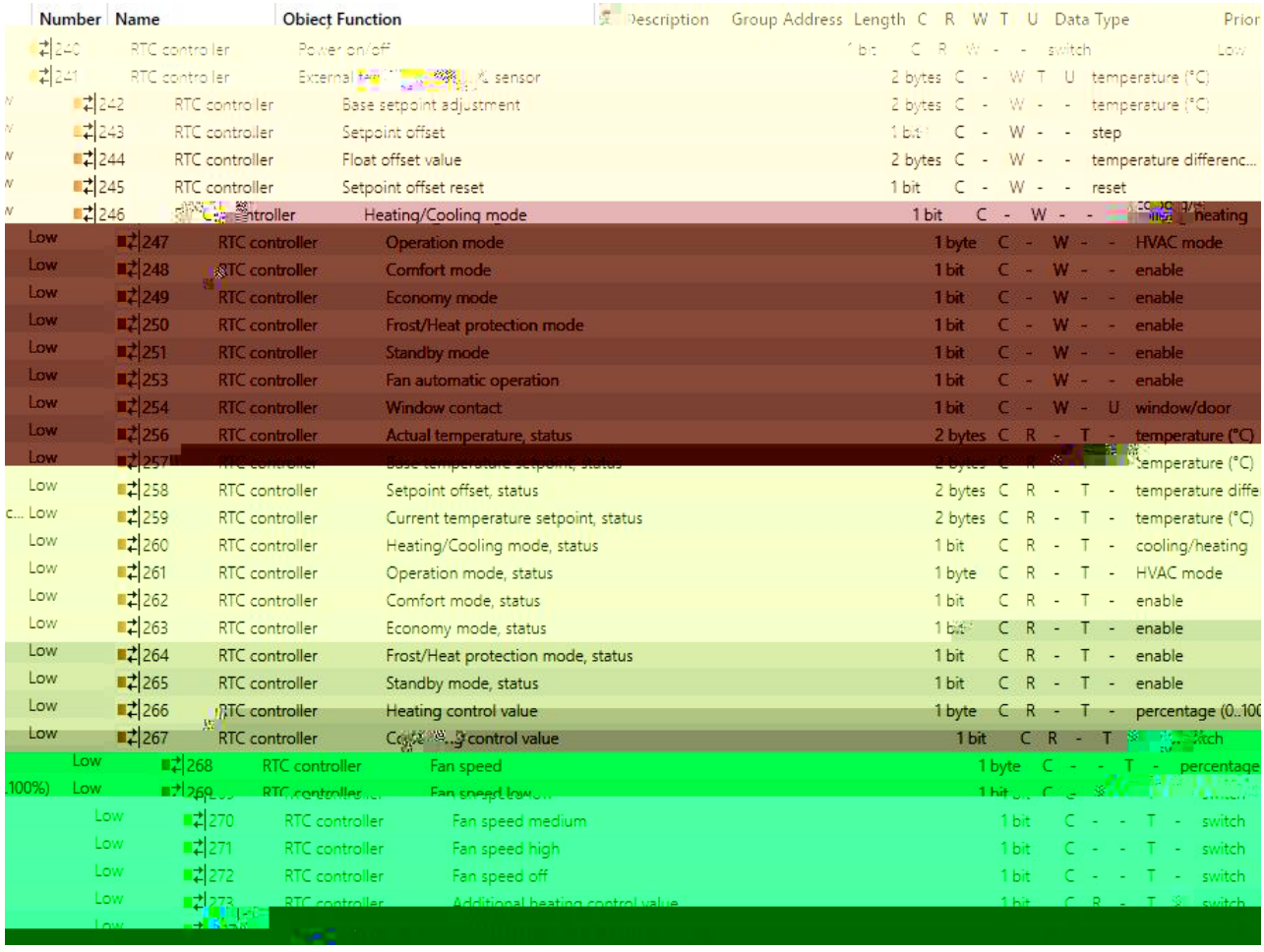
KNX/EIB

6.5. C a

k					
231	**C a a a**	**C a**	**1**	**C,W,T,U**	**5.001 a**
k					
232	**D a**	**C a**	**1**	**C,R,T**	**5.001 a**
k					
233	**D 1**	**C a**	**1**	**C,R,T**	**5.001 a**
234	**D 2**	**C a**	**1**	**C,R,T**	**5.001 a**
235	**D 3**	**C a**	**1**	**C,R,T**	**5.001 a**
236	**D 4**	**C a**	**1**	**C,R,T**	**5.001 a**
4 k k					
237	**C ,**	**C a**	**1**	**C,W**	**1.001**
238	**C ,**	**C a**	**4**	**C,W**	**3.007**
239	**C , a**	**C a**	**1**	**C,W**	**5.001 a**
k OFF k					

6.5 “Constant lighting”

6.6. RTC



6.6 “RTC function”

					DPT
240	**P /**	**RTC**	**1**	**C,W,R**	**1.001**
	k 1—— 0——				
241	**E a a**	**RTC**	**2**	**C,W,T,U**	**9.001 a**
	k -50~99.8°C				
242	**C a Ba a**	**RTC**	**2**	**C,W**	**9.001 a**
	“Current setpoint adjustment” k k “Base setpoint adjustment” k				

k

243	**S**	**RTC**	**1**	**C,W**	**1.007**

k

k

1 ˚

0 ˚

244	**F a a**	**RTC**	**2**	**C,W**	**9.002 a**

k 2byte k

245	**S**	**RTC**	**1**	**C,W**	**1.015**

k 1 k

246	**H a /C**	**RTC**	**1**	**C,W**	**1.100 / a**

k

1 ˚

0 ˚

247	**O a**	**RTC**	**1**	**C,W**	**20.102 HVAC**
248	**C**	**RTC**	**1**	**C,W**	**1.003 a**
249	**E**	**RTC**	**1**	**C,W**	**1.003 a**
250	**F /H a**	**RTC**	**1**	**C,W**	**1.003 a**
251	**S a**	**RTC**	**1**	**C,W**	**1.003 a**

k

1byte 247 1- 2- 3- 4- k

1bit

248 ˚

249 ˚

250 ˚

251 ˚

“1” k1bit ! 0

k 1bit “1” 0 k

252	**E**	**RTC**	**1**	**C,W**	**1.016 a**

k

1 ˚

0 ˚

1 1

k k

/ k

253	**Fa a a a**		**RTC**	**1**	**C,W**	**1.003**	**a**	

k

1 ˚

0 ˚

254	**W a**		**RTC**	**1**	**C,W,U**	**1.019**	**W /**	

k

1 ˚

0 ˚

255	**E a**		**RTC**	**1**	**C,W,U**	**1.018**	**a**	

k k

1 ˚

0 ˚

256	**A a a , a**		**RTC**	**2**	**C,R,T**	**9.001**	**a**	

k

k

257	**Ba a , a**		**RTC**	**2**	**C,R,T**	**9.001**	**a**	

263	**E , a**	**RTC**	**1**	**C,R,T**	**1.003 a**
264	**F /H a , a**	**RTC**	**1**	**C,R,T**	**1.003 a**
265	**S a , a**	**RTC**	**1**	**C,R,T**	**1.003 a**

k

1byte 261 1- 2- 3- 4- k

1bit

262 ˚

263 ˚

264 ˚

265 ˚

“1” k 1bit !

0 k 1bit 1 k

k

266	**H a a** **H a /C a**	**RTC**	**1** **1**	**C,R,T**	**1.001 S** **5.001 a**
267	**C a**	**RTC**	**1** **1**	**C,R,T**	**1.001 S** **5.001 a**

k k

268	**Fa**	**RTC**	**1**	**C,T**	**5.001 a** **5.100 a a**
269	**Fa**	**RTC**	**1**	**C,T**	**1.001**
270	**Fa**	**RTC**	**1**	**C,T**	**1.001**
271	**Fa**	**RTC**	**1**	**C,T**	**1.001**
272	**Fa**	**RTC**	**1**	**C,T**	**1.001**

k

1bit

269 ˚

270 ˚

271 ˚

272 ˚

“1” k 1bit-off

“0” GVS

1bit-off “1”

k

1byte k 268

k

273	**A a a a** **A a a / a**	**RTC**	**1** **1**	**C,R,T**	**1.001** **5.001 a**
274	**A a a**	**RTC**	**1** **1**	**C,R,T**	**1.001** **5.001 a**

k k

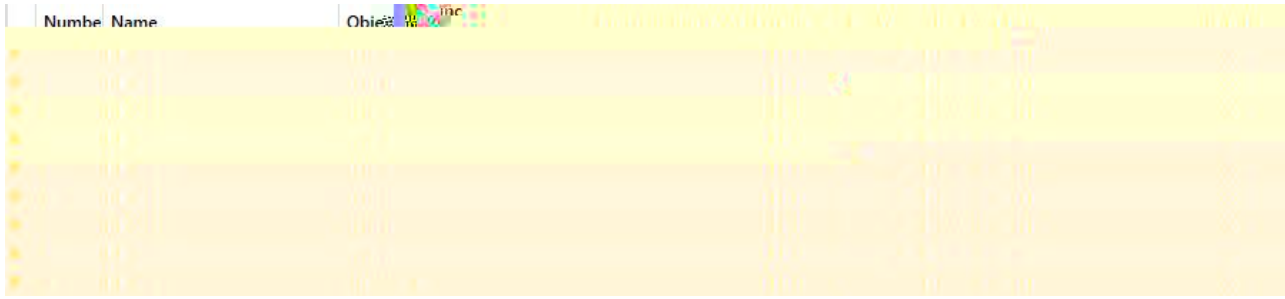
1bit 1 0

1byte 100% 0% k

6.6 “RTC function”

6.7. L

6.7.1. AND/OR/XOR



6.7.1 “AND/OR/XOR”

					DPT
11/.../18	**I**	**1 L**	**1**	**C,W,T,U**	**1.002 a**
Input x k “Description for logic function” “1st Logic” k k					
19	**L**	**1 L**	**1**	**C,T**	**1.002 a**
k					

6.7.1 “AND/OR/XOR”

6.7.2. Ga a

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic	Gate value select			1 byte	C	-	W	-	-	scene number	Low
12	1st Logic	Input A			1 bit	C	-	W	-	-	switch	Low
13	1st Logic	Input B			1 bit	C	-	W	-	-	switch	Low
14	1st Logic	Input C			1 bit	C	-	W	-	-	switch	Low
15	1st Logic	Input D			1 bit	C	-	W	-	-	switch	Low
16	1st Logic	Output A			1 bit	C	-	-	T	-	switch	Low
17	1st Logic	Output B			1 bit	C	-	-	T	-	switch	Low
18	1st Logic	Output C			1 bit	C	-	-	T	-	switch	Low
19	1st Logic	Output D			1 bit	C	-	-	T	-	switch	Low

6.7.2 “Gate forwarding”

					DPT
11	**Ga a**	**1 L**	**1**	**C,W**	**17.001**
		k			
12/.../15	**I**	**1 L**	**1** **4** **1**	**C,W**	**1.001** **3.007** **5.010** **(0..255)**
		Input x k			
16/../19	**O**	**1 L**	**1** **4** **1**	**C,T**	**1.001** **3.007** **5.010** **(0..255)**
		k k			

6.7.2 “Gate forwarding”

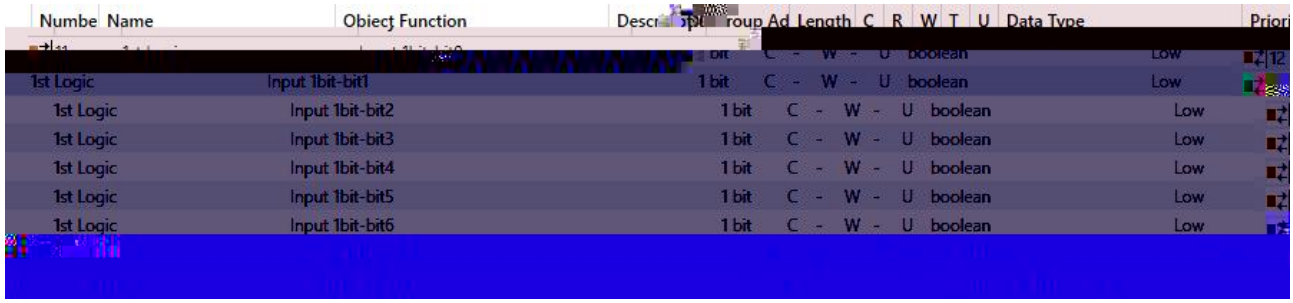
6.7.3. T a a

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic	Threshold value input			4 bit	C	-	W	-	U	dimming control	Low
11	1st Logic	Threshold value input			1 byte	C	-	W	-	U	counter pulses (0..255)	Low
11	1st Logic	Threshold value input			2 bytes	C	-	W	-	U	pulses	Low
11	1st Logic	Threshold value input			2 bytes	C	-	W	-	U	2-byte signed value	Low
11	1st Logic	Threshold value input			2 bytes	C	-	W	-	U	2-byte float value	Low
11	1st Logic	Threshold value input			4 bytes	C	-	W	-	U	counter pulses (unsigned)	Low
11	1st Logic	Threshold value input			2 bytes	C	-	W	-	U	temperature (°C)	Low
11	1st Logic	Threshold value input			2 bytes	C	-	W	-	U	humidity (%)	Low
11	1st Logic	Threshold value input			2 bytes	C	-	W	-	U	lux (Lux)	Low
19	1st Logic	Logic result			1 bit	C	-	-	T	-	boolean	Low

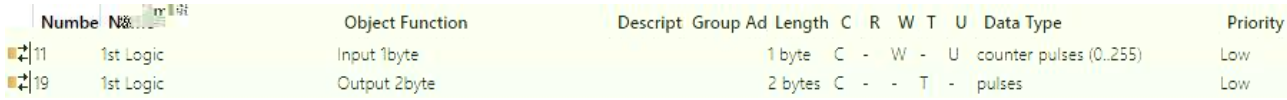
6.7.3 “Threshold comparator”

6.7 F a

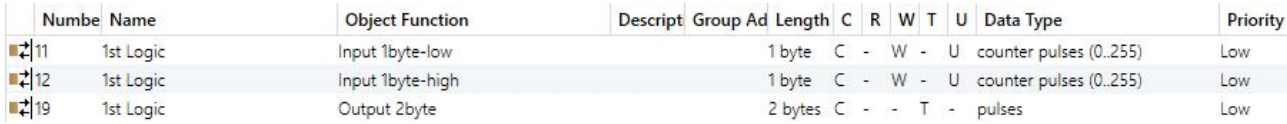
“2x1bit --> 1x2bit” 2 1bit 2bit Input bit1=1, bit0=0--> Output 2bit=2



“8x1bit --> 1x1byte” : 8 1bit 1byte Input bit2=1, bit1=1, bit0=1, 0--> Output 1byte=7



“1x1byte --> 1x2byte” 1byte 2byte Input 1byte=125--> Output 2byte=125,



“2x1byte --> 1x2byte” 2 1byte 2byte Input 1byte-low = 255 ($FF), Input 1byte-high = 100 ($64) --> Output 2byte = 25855 ($64 FF)

“2x2byte --> 1x4byte” 2 2byte 4byte Input 2byte-low = 65530 ($FF FA), Input 2byte-high = 32768 ($80 00)--> Output 2byte = 2147549178 ($80 00 FF FA)

“1x1byte --> 8x1bit” 1 1byte 8 1bit Input 1byte=200 --> Output bit0=0, bit1=0, bit2=*0,

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priori
11	1st Logic	Input 2byte			2 bytes	C	-	W	-	U	pulses	Low
18	1st Logic	Output 1byte-low			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
19	1st Logic	Output 1byte-high			1 byte	C	-	-	T	-	counter pulses (0..255)	Low

"1x2byte --> 2x1byte" 1 2byte 2 1byte Input 2byte = 55500 ($D8 CC) --> Output 1byte-low = 204 ($CC), Output 1byte-high =216 ($D8)

"1x4byte --> 2x2byte" 1 4byte 2 2byte Input 4byte = 78009500 ($04 A6 54 9C) --> Output 2byte-low = 21660 ($54 9C), Output 2byte-high =1190 ($04 A6)

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic	Input 3byte			3 bytes	C	-	W	-	U	RGB value 3x(0..255)	Low
17	1st Logic	Output 1byte-low			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
18	1st Logic	Output 1byte-middle			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
19	1st Logic	Output 1byte-high			1 byte	C	-	-	T	-	counter pulses (0..255)	Low

"1x3byte --> 3x1byte" 1 3byte 3 1byte Input 3byte = $78 64 C8--> Output 1byte-low = 200 ($C8) , Output 1byte-middle = 100 ($64) , Output 1byte-high =120 ($78)

"3x1byte --> 1x3byte" 3 1byte 1 3byte Input 1byte-low = 150 ($96), Input 1byte-middle = 100 ($64), Input 1byte-high = 50 ($32)--> Output 3byte = $32 64 96

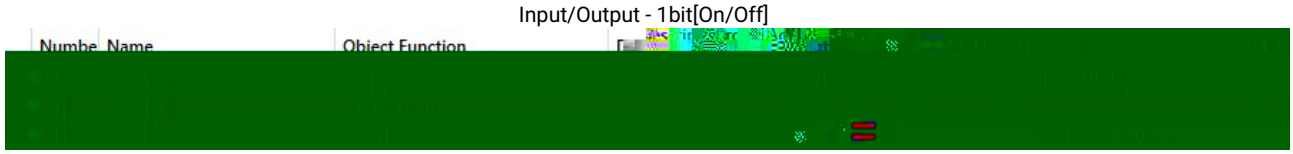
6.7.4 "Format convert"

					DPT
11	**I ...**	**1 L**	**1 1 2 3 4**	**C,W,U**	**1.001 5.010 (0..255) 7.001 232.600 RGB a 3 (0..255) 12.001**
k					
19	**O ...**	**1 L**	**1 2 1 2 3 4**	**C,T**	**1.001 2.001 5.010 (0..255) 7.001 232.600 RGB a 3 (0..255) 12.001**
k					

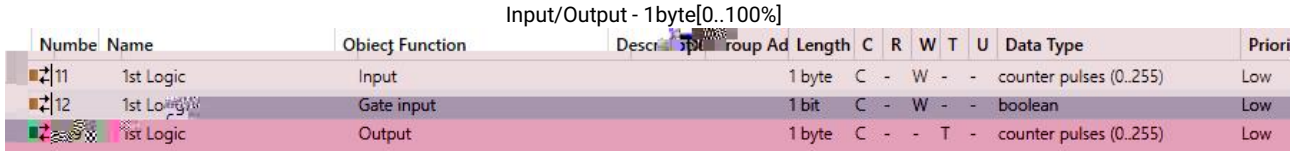
6.7.4 "Format convert"

6.7.5. Ga

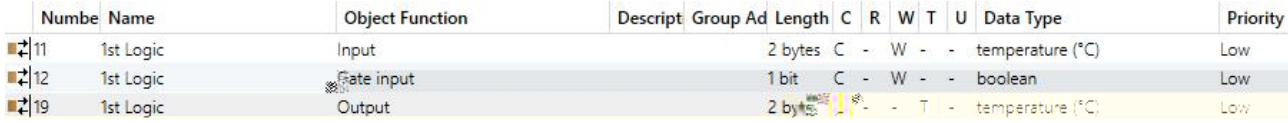
Input/Output - 1bit[On/Off]



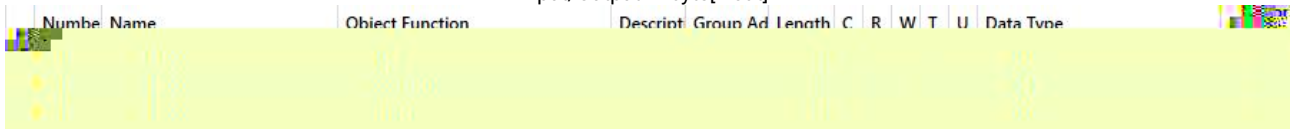
Input/Output - 1byte[0..100%]



Input/Output - 1byte[0..255]



Input/Output - 2byte[Float]



Input/Output - 2byte[0..65535]

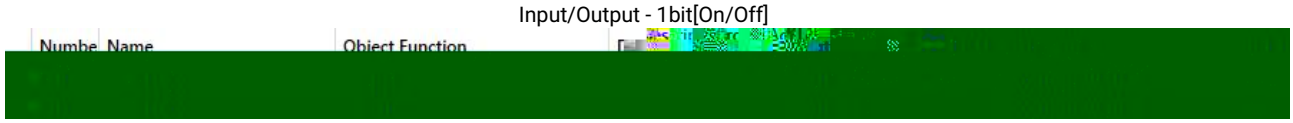
6.7.5 “Gate function”

					DPT
11	**I**	**1 L**	**1 1 2**	**C,W**	**1.001 5.001 a 5.010 9.001 a 7.001**
		k			
12	**Ga**	**1 L**	**1**	**C,W**	**1.002 a**
		k k			
13	**O**	**1 L**	**1 2**	**C,T**	**1.001 5.001 a 5.010 9.001 a 7.001**
		k			“Gate input” k

6.7.6. D a

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic	Input			1 bit	C	-	W	-	-	switch	Low
19	1st Logic	Output			1 bit	C	-	-	T	-	switch	Low

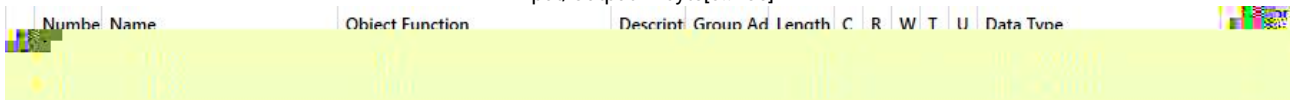
Input/Output - 1bit[On/Off]



Input/Output - 1byte[0..100%]

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic	Input			1 byte	C	-	W	-	-	counter pulses (0..255)	Low
19	1st Logic	Output			1 byte	C	-	-	T	-	counter pulses (0..255)	Low

Input/Output - 1byte[0..255]



Input/Output - 2byte[Float]

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic	Input			2 bytes	C	-	W	-	-	pulses	Low
19	1st Logic	Output			2 bytes	C	-	-	T	-	pulses	Low

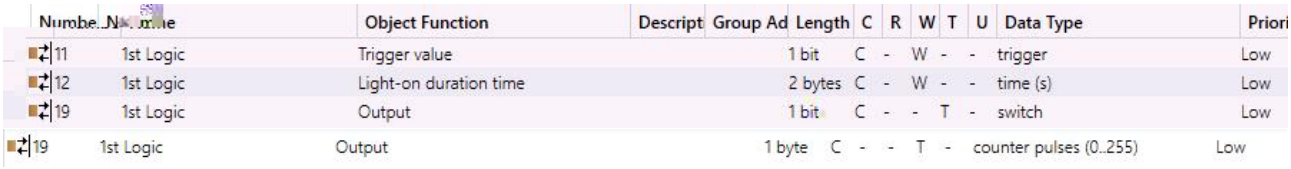
Input/Output - 2byte[0..65535]

6.7.6 “Delay function”

					DPT
11	**I**	**1 L**	**1 1 2**	**C,W**	**1.001 5.001 a 5.010 9.001 a 7.001**
k					
19	**O**	**1 L**	**1 1 2**	**C,T**	**1.001 5.001 a 5.010 9.001 a 7.001**
k					

6.7.6 “Delay function”

6.7.7. S a a



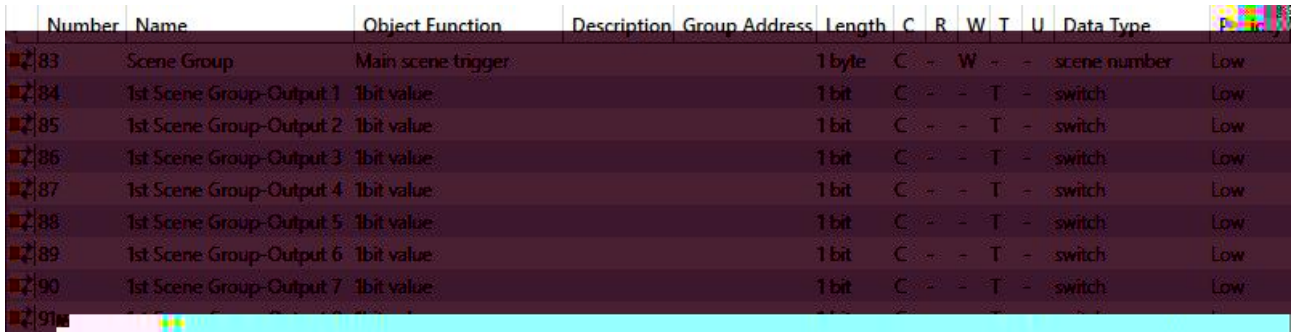
Numbe	N	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priori
11	1st Logic	Trigger value			1 bit	C	-	W	-	-	trigger	Low
12	1st Logic	Light-on duration time			2 bytes	C	-	W	-	-	time (s)	Low
19	1st Logic	Output			1 bit	C	-	-	T	-	switch	Low
19	1st Logic	Output			1 byte	C	-	-	T	-	counter pulses (0..255)	Low

6.7.7 “Staircase lighting”

					DPT
11	**T a**	**1 L**	**1**	**C,W**	**1.017**
		k			
12	**L - a**	**1 L**	**2**	**C,W**	**7.005 ( )**
					k
19	**O**	**1 L**	**1** **1**	**C,T**	**1.001** **5.010**
	1	2 k			k

6.7.7 “Staircase lighting”

6.8. S G



Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	P
83	Scene Group	Main scene trigger			1 byte	C	-	W	-	-	scene number	Low
84	1st Scene Group-Output 1	1bit value			1 bit	C	-	-	T	-	switch	Low
85	1st Scene Group-Output 2	1bit value			1 bit	C	-	-	T	-	switch	Low
86	1st Scene Group-Output 3	1bit value			1 bit	C	-	-	T	-	switch	Low
87	1st Scene Group-Output 4	1bit value			1 bit	C	-	-	T	-	switch	Low
88	1st Scene Group-Output 5	1bit value			1 bit	C	-	-	T	-	switch	Low
89	1st Scene Group-Output 6	1bit value			1 bit	C	-	-	T	-	switch	Low
90	1st Scene Group-Output 7	1bit value			1 bit	C	-	-	T	-	switch	Low
91												

6.8 “Scene Group”

					DPT
83	**Ma**	**S G**	**1**	**C,W**	**17.001**
					k 0..63
84/../	**1 a** **1 a** **HVAC** **2 a** **T a**	**1 S G - O**	**1** **1** **2**	**C,T**	**1.001** **5.010** **20.102 HVAC** **7.001** **9.001 a**
k k 8 8 k “Description for Output x function” “1st Scene Group-Output x” k					

6.8 “Scene Group”