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K-BUS KNX □ S7

KNX Smart Touch S7_V1.7

CHTI-7.0/120.1.22(□)

CHTI-7.0/120.1.23(□ □ □)

KNX/EIB □ □ □

S7 □ KNX □ S7 ! S7 □ □ ! S7 □ □ k □ □ □ □ KNX □ S7

□ □ □ □ □ □ k

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KNX □ S7	CHTI-7.0/120.1.22(□) CHTI-7.0/120.1.23(□ □ □)
S7 □ □	CHPB-04/S7.1.00(□ □) CHPB-04/S7.1.01(□)
S7 □ □	CHRB-04/S7.1.10(□ □ □) CHRB-04/S7.1.11(□ □) CHRBC-04/S7.1.10(□ □ □) CHRBC-04/S7.1.11(□ □)

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3.1 3

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KNX □ S7 6.9 KNX □ □ □ □ □ 1440*720 k KNX □

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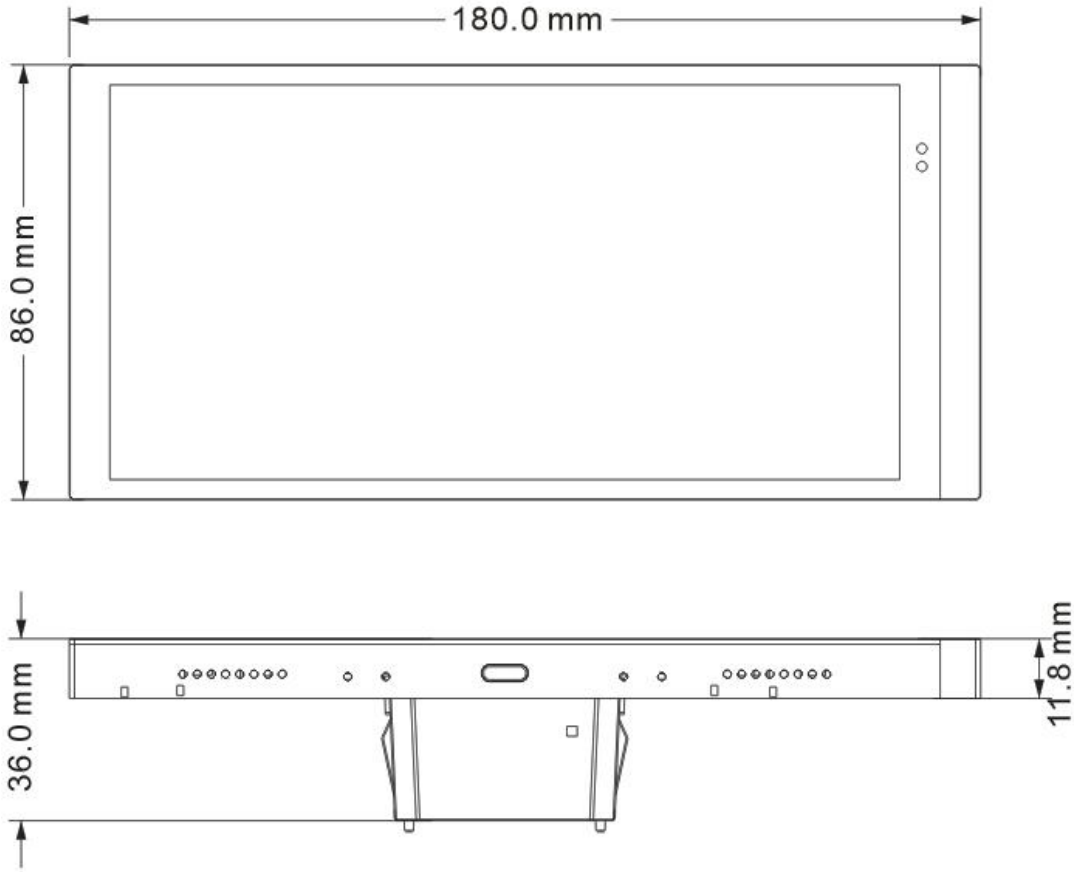
□□□	□□	21-30V DC□□ KNX □
	□□	<3.8mA/24V□<3.4mA/30V
	□ □	<0.1W
□ □□	□	12-30V DC
	□	<170mA/24V□<150mA/30V
	□	<4.5W
□	KNX	□□ □ (□/□)
	□ □□	□□ □ (□/□)
	RJ45	□ □ □□□ □□
□	□□ □ □□ □□	□□□
□□ □□	□	□30cm □60cm
□	-40-80℃	
□	0-100%	
□ □	□□	– 5 °C ... + 45 °C
		–25 °C ... + 55 °C
	□□	– 25 °C ... + 70 °C
□	□	<93%□□□□
□	80 □ 86 □ □	
/	KNX □ S7□180.0*86.0*36.0mm/0.5Kg	
	S7 □ □ □45.0*86.0*11.8mm/0.1Kg	
	S7 □ □ □61.0*86.0*27.7mm/0.16Kg	

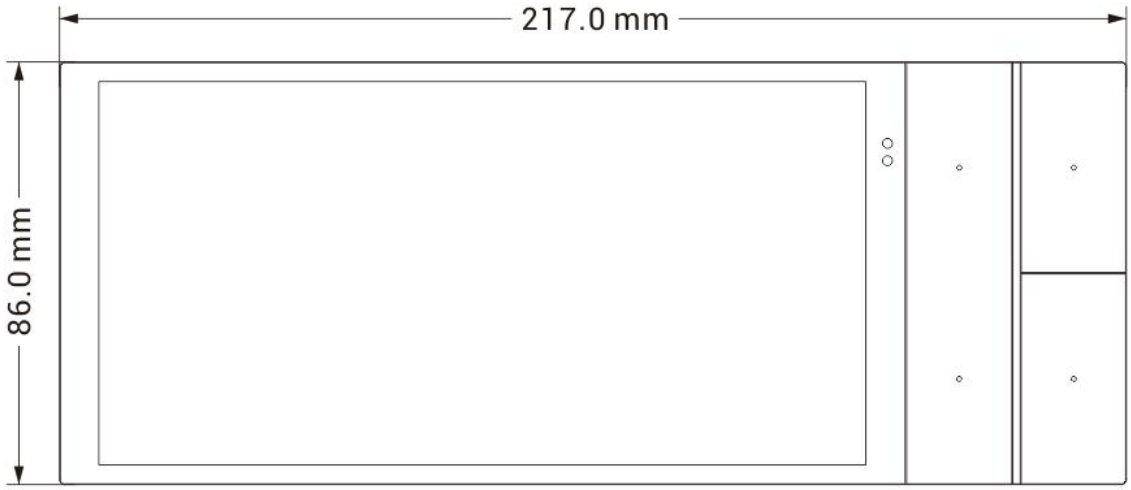
□ □ □

3.1

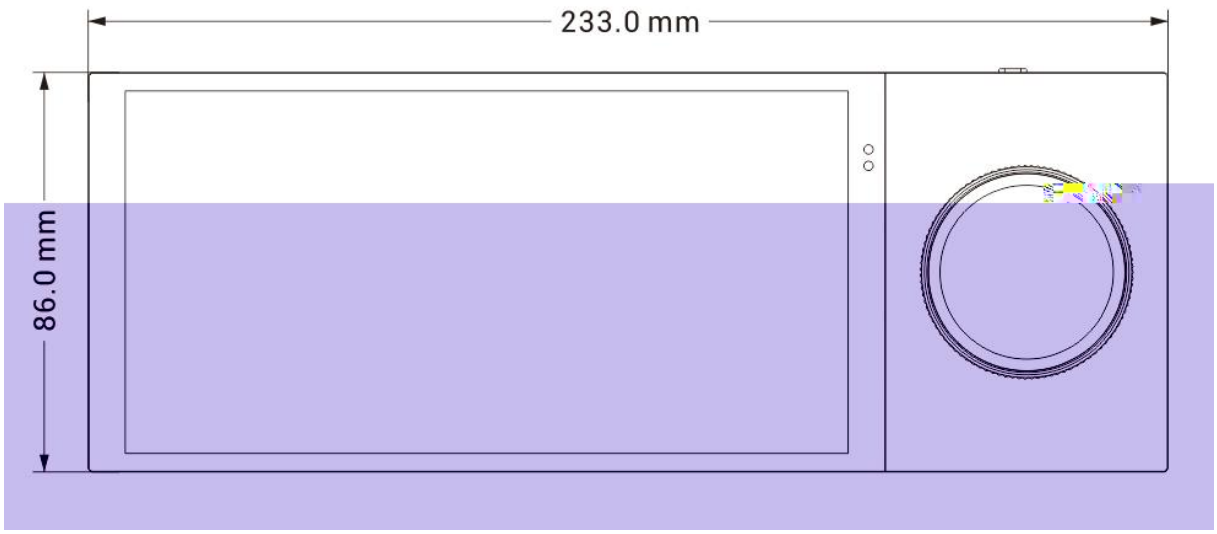
3.1.1 KNX □ S7



3.1.1(1) KNX □ S7

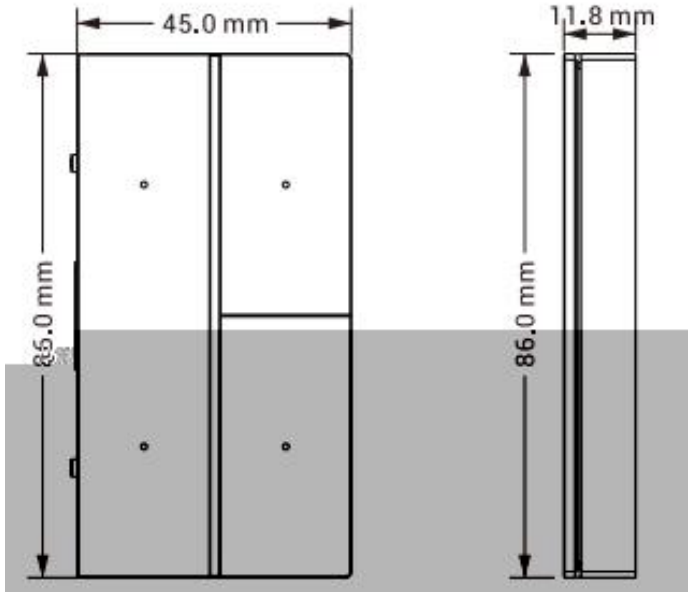


3.1.1(2) KNX □ S7 □ □ -



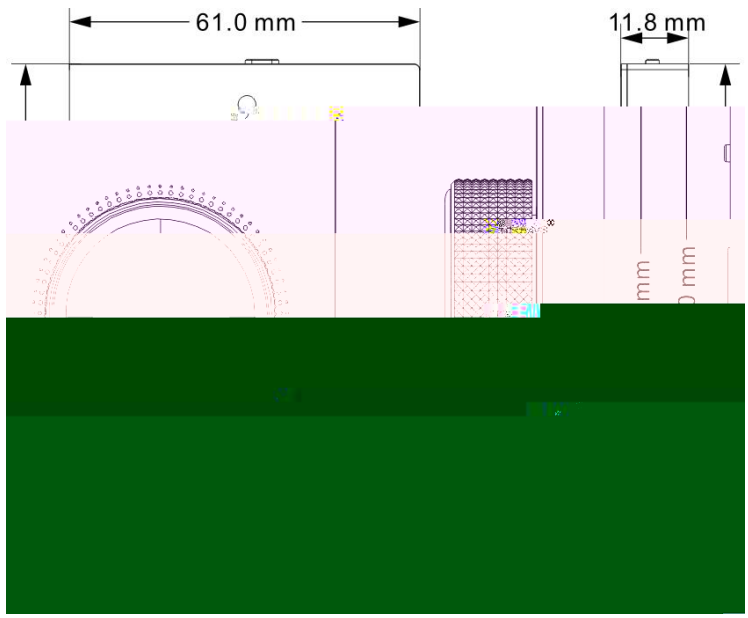
3.1.1(3) KNX □ S7 □ □

3.1.2 S7 □ □ -



3.1.2 S7 □ □ -

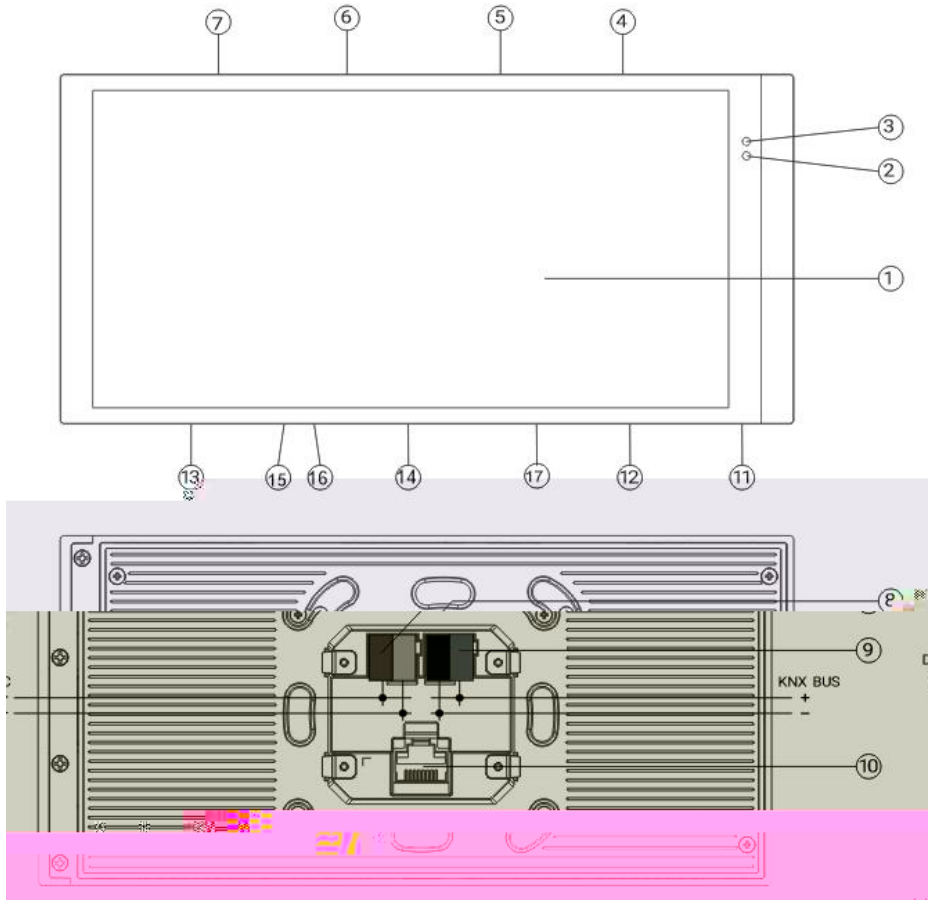
3.1.3 S7 □ □



3.1.3 S7 □ □

3.2 □

3.2.1 KNX □ S7



3.2.1 KNX □ S7

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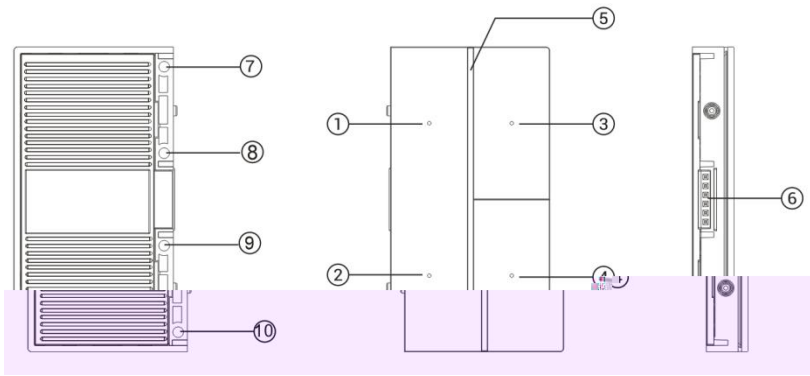
3.2.2 S7 □ □ -



3.2.2 S7 □ □ -

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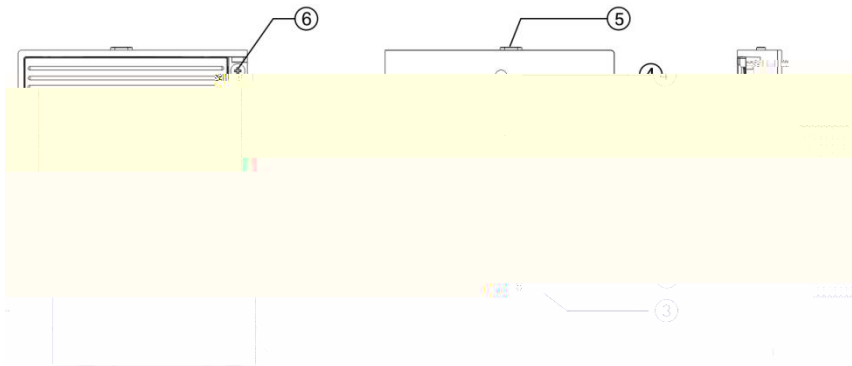
3.2.3 S7 □ □



3.2.3 S7 □ □

F □ □ 1-4 ϝ □ □ ϰ □ □ ϟ

϶ □ ϶ □ □ Ш □ S7 □

3.3 □ □

3.3.1 KNX □ S7 □ □

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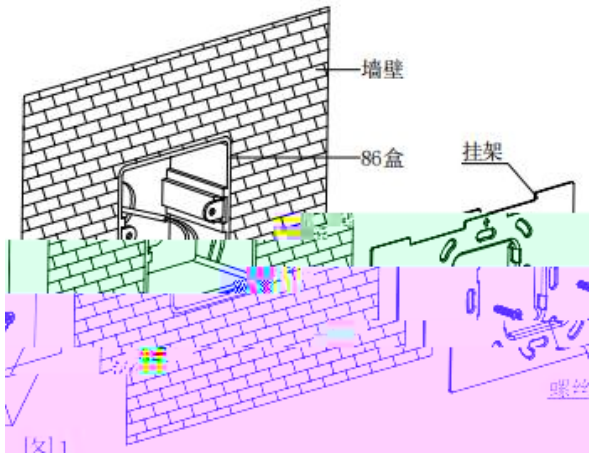


图1

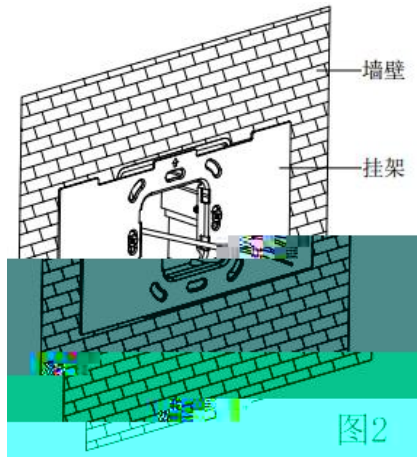


图2

1. □ □ □ □ □ □ k

□ □ □ □

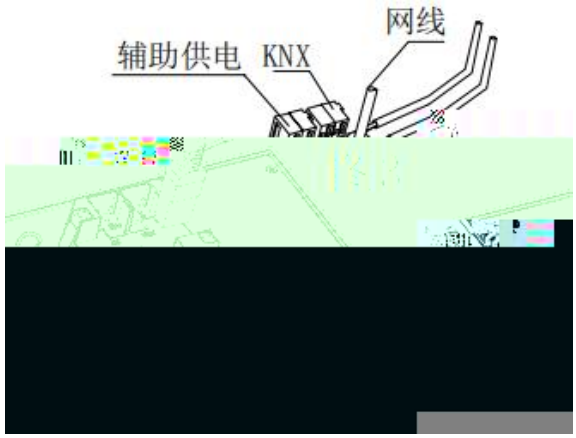
(1) □ □ □ □ □ □ □ 80 □ 86 □ k □ □ □ □

□ k 1 □ □

(2) □ k 2 □ □

(3) □ □ □ □ □ □ k □ □ 0.6~0.8N.M □ 6~8Kgf.cm □ k

(4) □ □ 86 □ □ □ □ □ □ □ □ □ M4 □ □ k



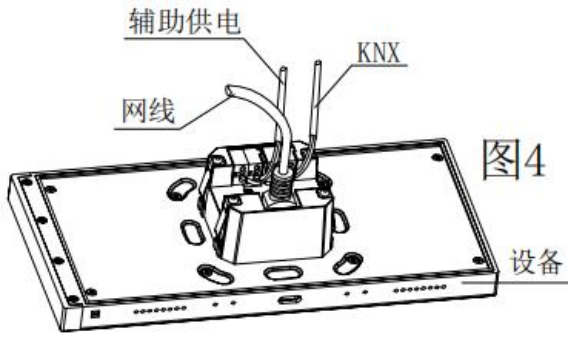
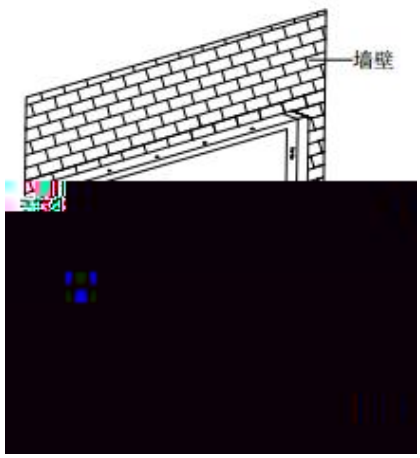


图4

2. □ □ KNX □□ □ □ □□ □□ □ k 3 □□ □ □ □□

KNX □□ □ □ □ □ □ □ □ □ □ k 4 □□



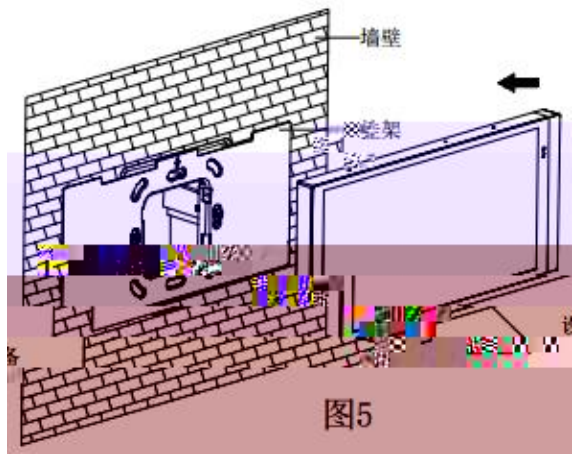


图5

3.□ □□ :

(1) □ □□ □ □□ □ □ □ □ □ □ □ □ □ □ □

□□ □ □ □ □ □□ □ □ □ k 5□

(2) □ □ k 6 □□

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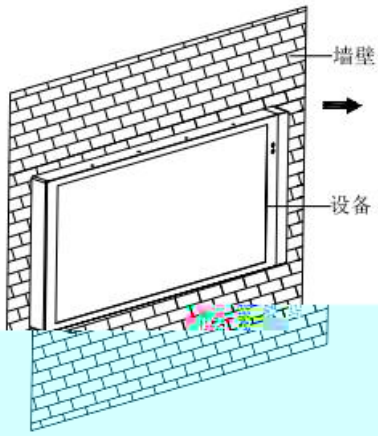

图7

3. □ □ □□ □□ □ □□ □ □ □ □ □□□ k

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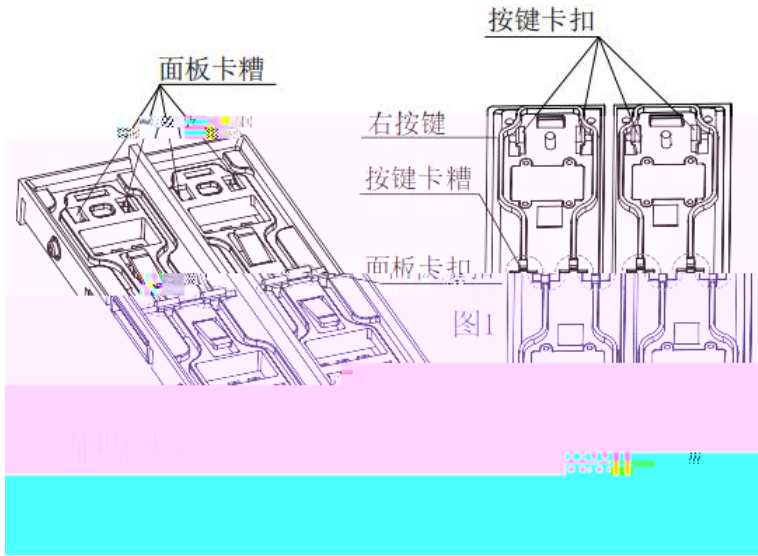
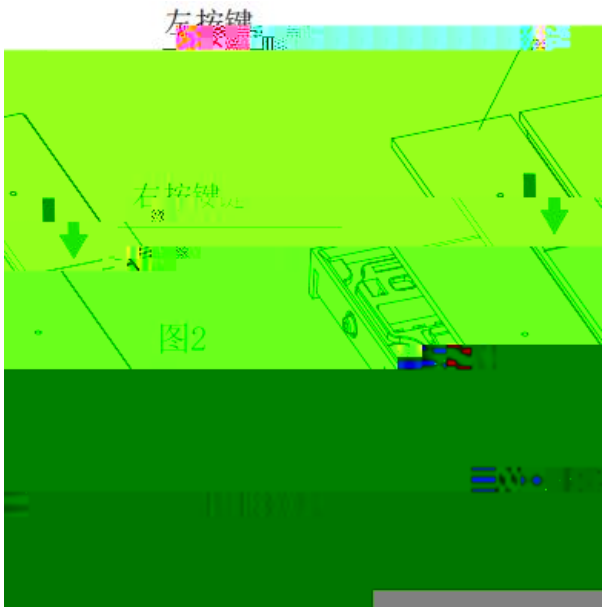
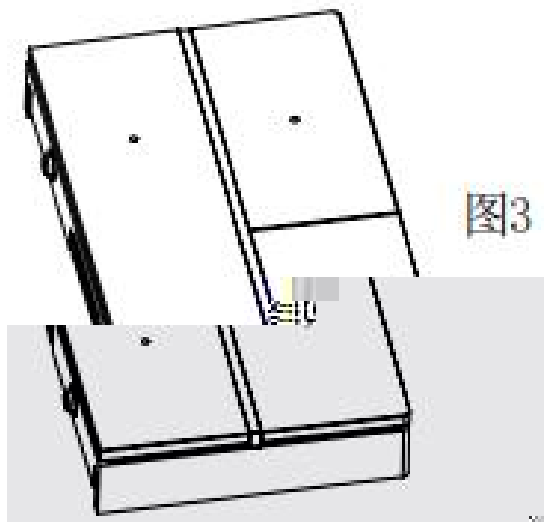
3.3.2 S7 □ □ - □□







1. □ □□□ □ □ □ □ □ □ □ □

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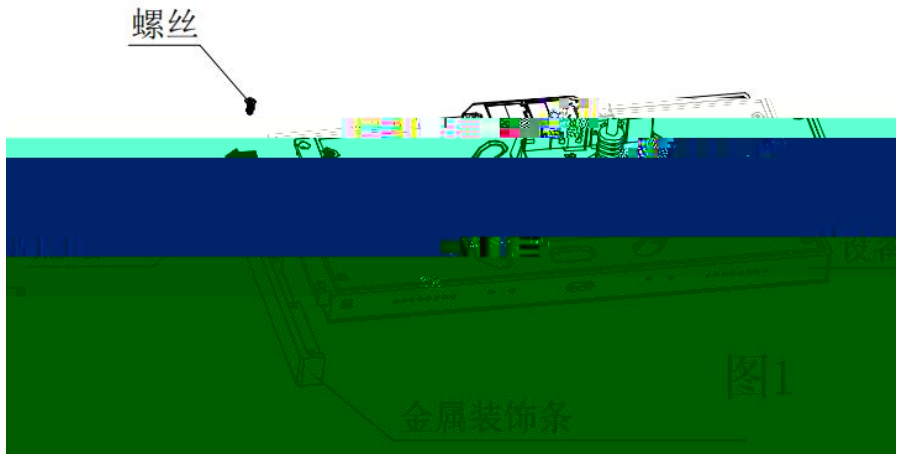
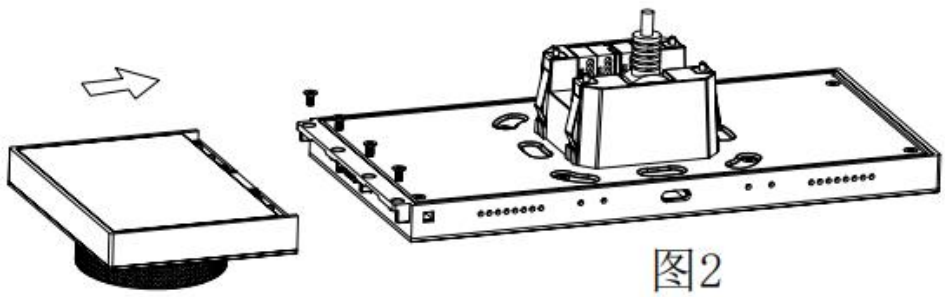
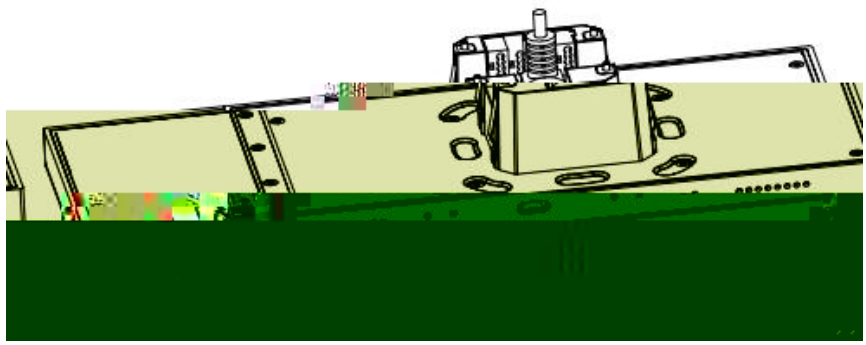
3.3.3 S7 □ □ □□



1.□□ KNX □ S7 □□ □4 □ , □ k□ □□

□ □□□□ k 1 □□





2. S7 □ □ □ 6PIN □ KNX □ S7 □□ □□□□□ □ □4 □ □□

k 2 □□S7 □ □ KNX S7 □ □ 3 □□

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KNX Touch/Intercom/1.2	**3042**	**4500**	**4500**	**1500**

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□□□ k

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PM2.5 ! VOC ! CO2 □ □ □ k

□ □

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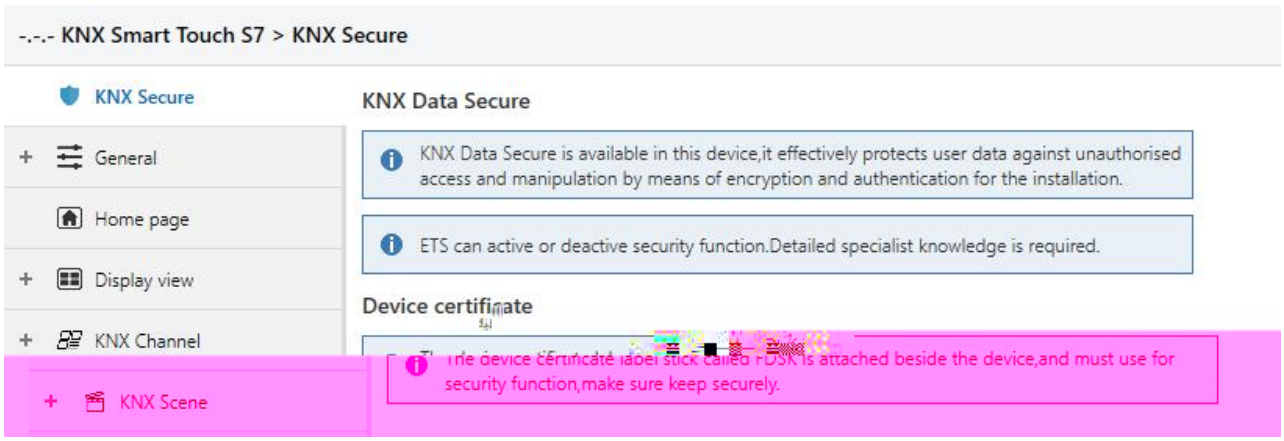
□ □ ETS □ □ □ □ □

5.1 KNX

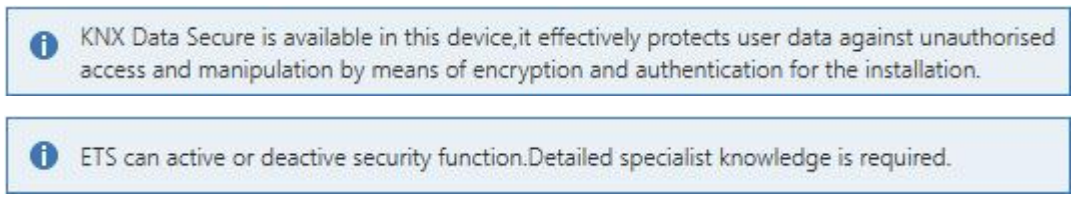
KNX S7 □ □ KNX □ KNX □ k □ □ □ □

□ □ k



5.1 (1) “KNX Secure” □ □

□ KNX □ KNX □ ETS □ □ □ □ 5.1(1) □ □



KNX □ □ □ □ □ □ □ □ □ □ □ □ □

k ETS □ □ □ □ k □ □ □ □ □ □ □ □ k

□ □ FDSK □ □ □ □ □ □ □ □ □ k

ETS □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

❖ KNX □ □□ □ □□ □□□ □□□ □□ □ □□□ k

□ □ □ □□□□ KNX □□ □□

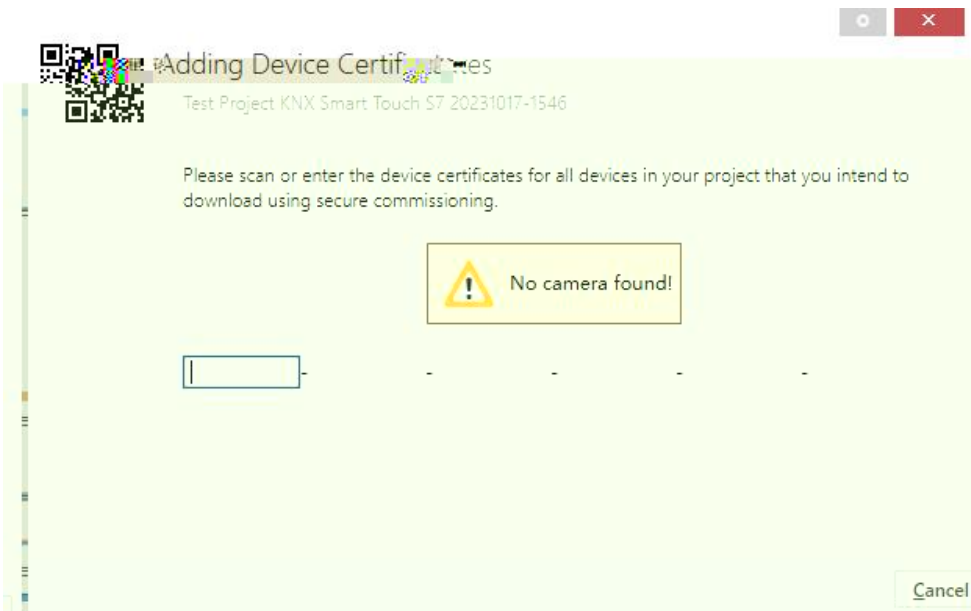
□□ □□□□ □ k

❖ □□ KNX □ □□ □□ □□ □□ □ k □□FDSK = □□□□ □□

□ □□□□ □ □ □ □ ETS□

✧ □ □□ □ETS □ □ □□ □ □□ 5.1 (2) k

□ □ QR □ □ □ □□ k

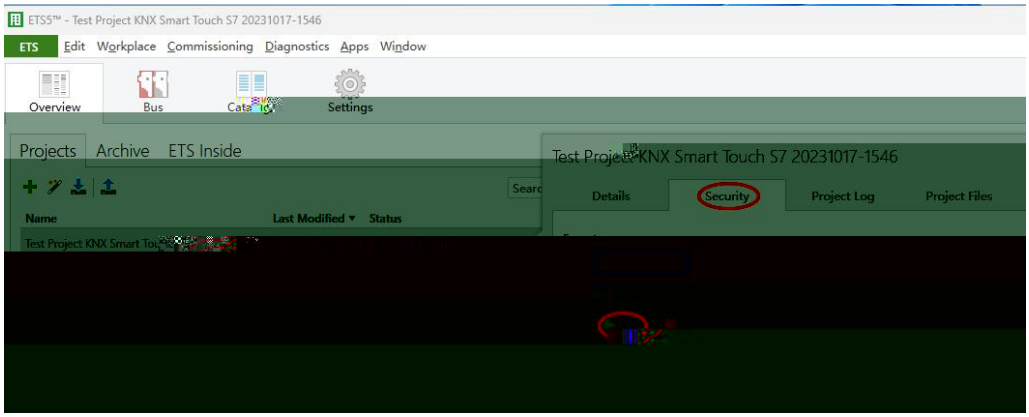


5.1(2) Add Device Certificate □

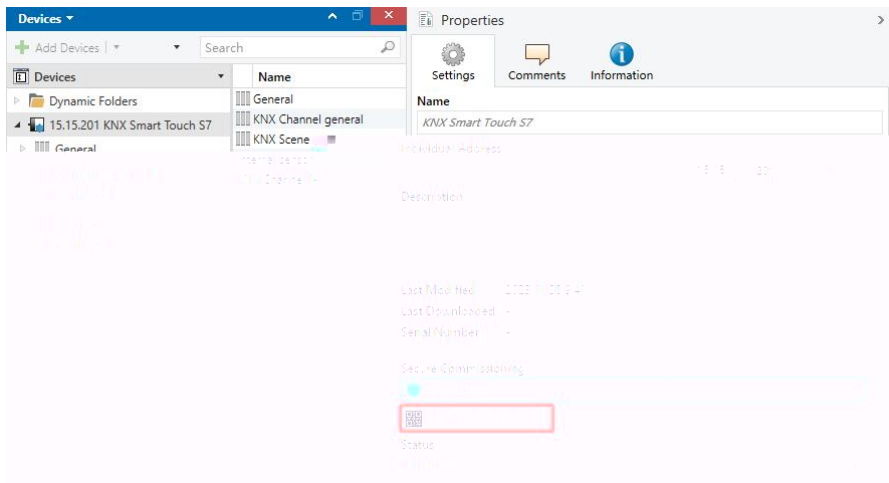
✧ □ □ □ □□ □ □ ETS k

□□ □□□□“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

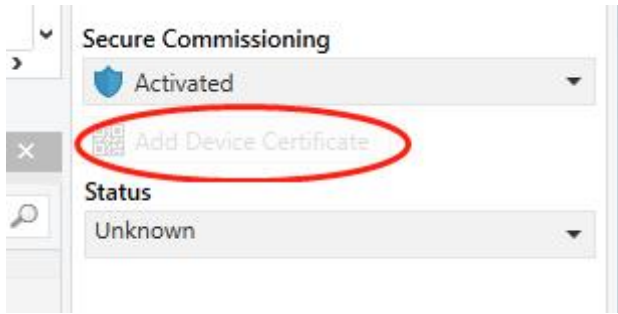
FDSK□ □ KNX □ k

FDSK □ □□□ □ FDSK □ETS □ □ □□ 5.1(5) k

□ □ □□ □ □ □ □ □ ETS □□ □□□ □□ □

FDSK k

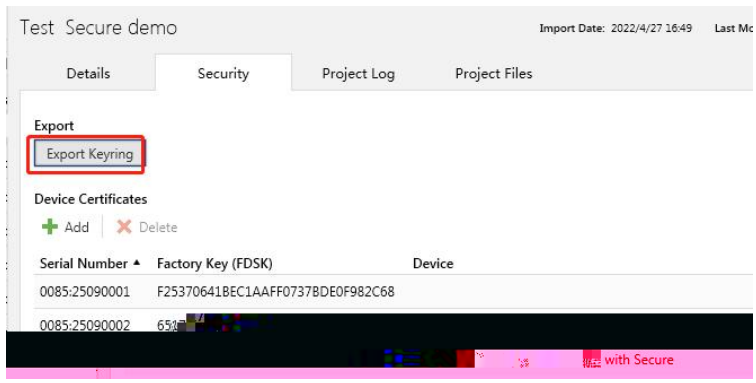
□ □ □ □“Add Device Certificate” □□□□□ □ □ □ □ k



5.1(7)

ETS □ □□ □□

□□ □ □□ 5.1(8)□ □ □ .knxkeys k



5.1(8)

□ □ **KNX** □ □□□□□ **USB** □ □ □□ □, **ETS** □ □

□ □ k

5.2 □□□□□General□

5.2.1 □□□□ “General setting”

□□□□“Ge

KNX/EIB KNX

"Delay time for exiting setting status"

□□□ □ □□□ □ □□ □□ □ !□□!□ □ □ □□□k

□ □ □ □ UI k □□□

1.0s

2.0s

3.0s

4.0s

5.0s

"Long operation for touch after"

□ □ □□ □k □□□

0.5s

1.0s

2.0s

3.0s

"Cyclically send date and time [0...255,0=inactive]h"

□□ □ □ □□ □0 k □□□**0...255**

"Delay time for back to homepage after no operation[0..255,0=inactive]s"

□□□□ □ □ □□ □□ □ □□□□ □ □ □

□□0 □ □ k □□□**0...255**

Screen display setting □□□

"Temperature display units"

□□□ □ k □□□

Celsius(°C)

Fahrenheit(°F)

"Interface Language"

□□ □□□□□□ k □□□

Chinese(Simplified) (□) **Spanish** □□□□

Chinese(Traditional) (□) **Russian** □ □

English □ **Arabic** □ □

German □ **Polish** □

French □ **Portuguese** □□□□

Other

□ □ □□

警告：请务必确保工程属性里的编码页选项为UTF-8，否则中文显示将会异常

□ □ □ □□

Note:The codepage option in the property of project must select the Unicode(UTF-8)

□ □□ **4.1.0** □□□□□□ □ □ k

"Language name"

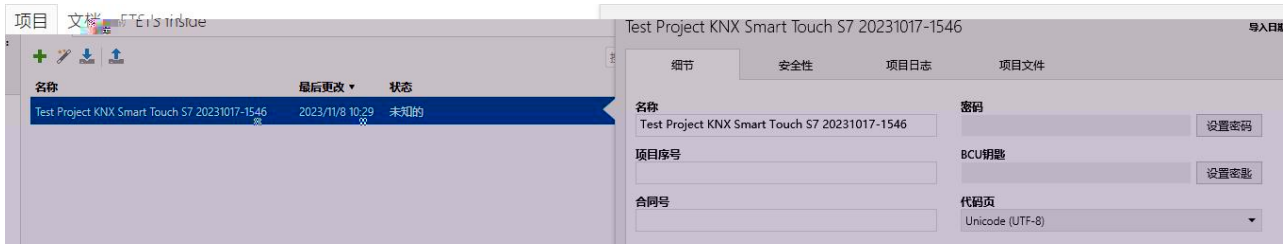
□□□□□ Other□ □□□ □ □□□ □ k □ □ □□ □ □

□□□□□ □ k □□ □□ k

□ □ □□ norwegian(□) ¦ italian(□) ¦ farsi(□) ¦ hebrew(□) k

□□ **Other** □□ □□ □□ □□□□ □□□ □ k

UTF-8 □ □ □ □



"UI theme is"

□ □ □ □ □ □ □ □ □ k □ □ □ □ □ □ k k

□ □ □

1

2

3

"Date display format"

□ □ □ □ □ □ k □ □ □

yyyy/mm/dd

dd/mm/yyyy

Brightness setting □ □

"Screen brightness can be changed via bus"

□ □ □ □ □ □ □ k

□ □ □ □ □ □ "Screen backlight brightness" □ k

Extension function □

"Night mode"

□ □ □ □□□□□ □ k □□ 5.2.3 □□□□□□ k

"Proximity function"

□ □□□ □□□□□□ □ k □□ 5.2.5 □□□□□□ k

"Intercom function"

□ □ □□ □ □□ □ □ □ □ □ k

"Extension Sub Panel function(If the device supports)"

□□ □ □ □□ □ □ □ □ □ □□□ k □ □ □□

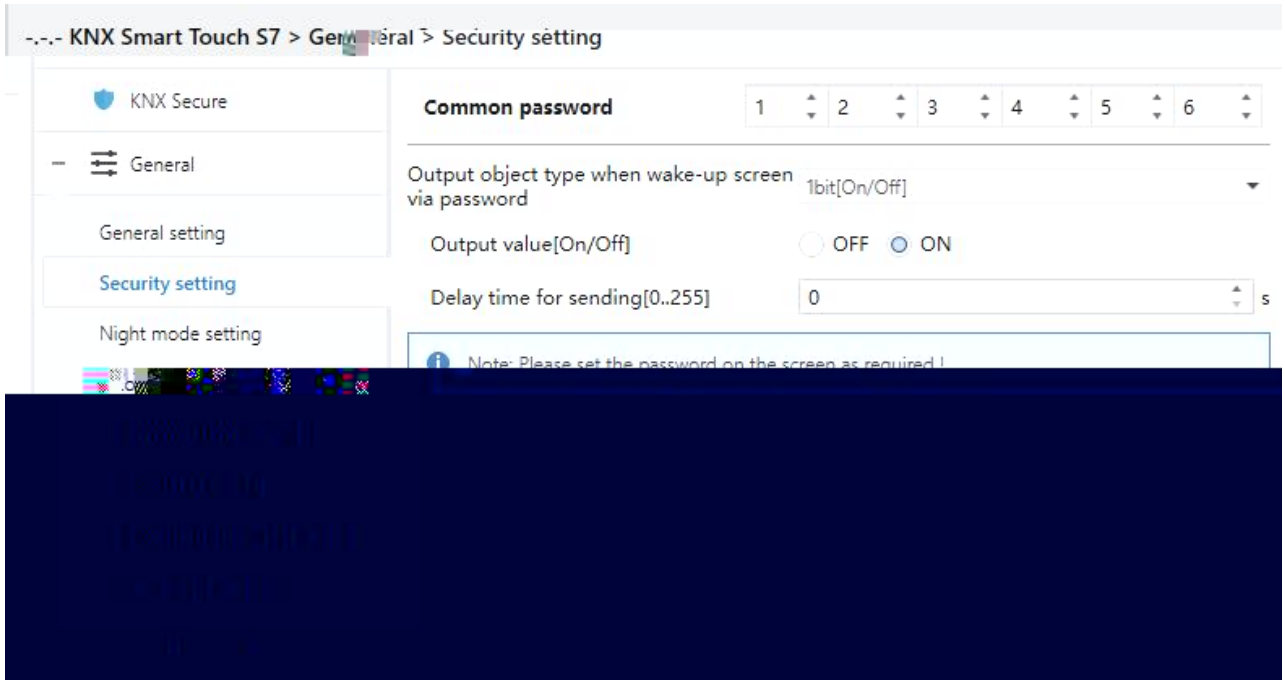
□& □ LED □ □ k □ □ □□ k □□ 5.2.7 □ □ □□□□□□

k

5.2.2 □□□□ "Security setting"

□□□□"Security setting" 5.2.2 □□□ □□□ □ □ □ □□ □

□ □ □ □ k



5.2.2 "Security setting" □□□□

"Common password"

□□□□ □, □□ □ □ ! □ □ ! □ □ ! □□ ! □ □

□□ □□□□ k

"Output object type when wake-up screen via password"

□□ □ □ □ □ □ k □□□

No reaction

1bit[On/Off]

1byte[scene control]

1byte[0..255]

1byte[0..100%]

□ □ □□□ □ □ □□□ □□□ k

□□ **"No reaction"** □ □

- **" Output value[On/Off] "**
- **" Output scene NO.[1..64]"**
- **" Output value[0..255]"**
- **" Output value[0..100%]"**

□ □□□□ □ k

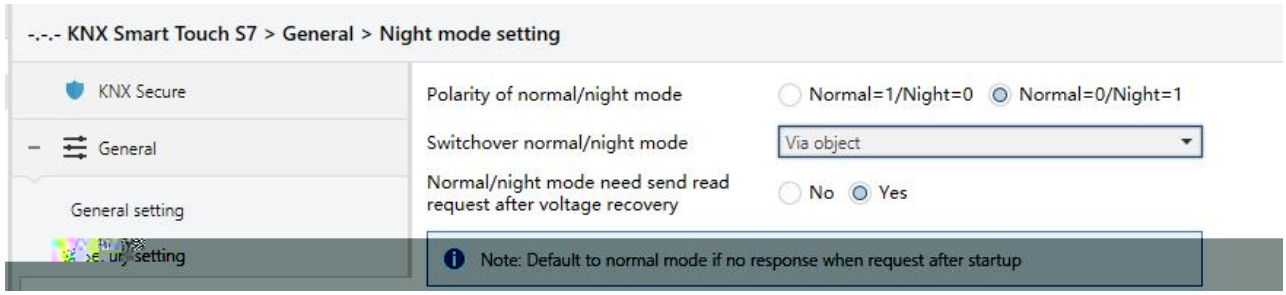
□□□**OFF/ON / Scene No.1..Scene No.64 / 0..255 / 0..100%**

- **" Delay time for sending[0...255]"**

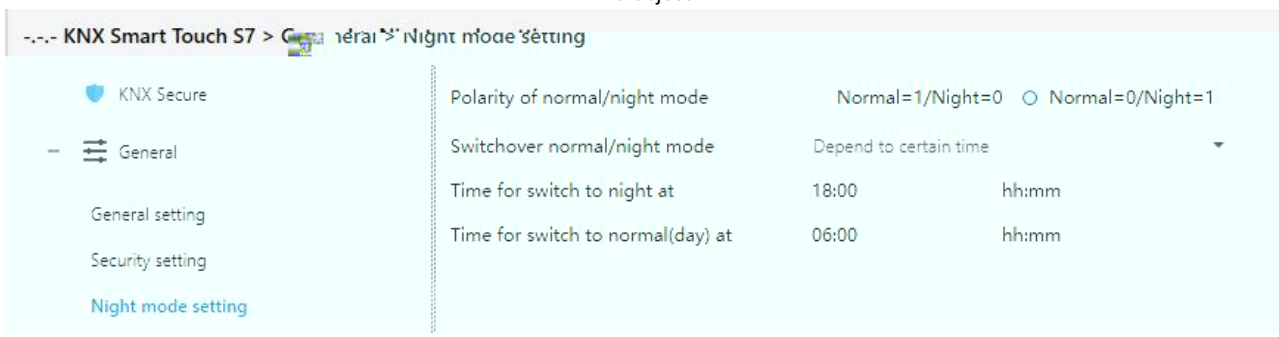
□□ □ □ k □□□**0...255**

5.2.3 □□□□ "Night mode setting"

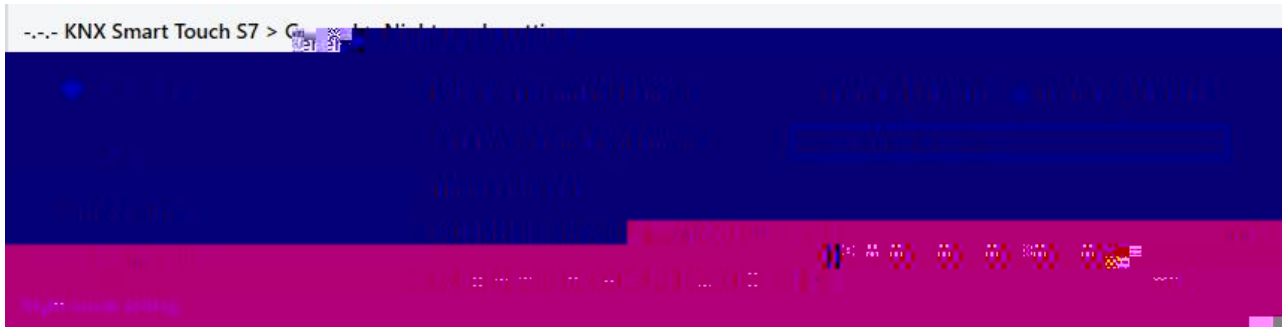
□□□□"Night setting" 5.2.3 □□□ □□□ □ □ □



Via object



Depend to certain time



Depend to sunrise&sunset

5.2.3 "Night modey setting" □□□□

"Polarity of normal/night mode"

□□ □□ □/ □ k □□□

Normal=1/Night=0

Normal=0/Night=1

"Switchover normal/night mode"

□ □ □ / □ □ □ □ "Night mode" □ k □ □ □

Via object

Depend to certain time

Depend to sunrise&sunset

Via object □ □ k □ □ □ k

Depend to certain time □ □ □ □ □ / □ k 18 □ 30 □ □

6 □ 30 □ □ k

Depend to sunrise&sunset □ □ □ / □ k □ □ □ □ □ □ □

□ □ 116°20' ! □ 39°56' k

□ **"Via object"** □ □ □ □ □ □ □ □ □ □ k

"Normal/night mode need send read request after voltage recovery"

□ □ □ Night mode □ □ □ □ □ □ □ k □ □ □ LED

□ (□)/ □ □ □ □ □ □ □ k □ □ □

No

Yes

Note: Default to normal mode if no response when request after startup

□ □ □ □ □ k □ ! **LED** □ □ ! □ □ □ □

□ □ k

□ **"Depend to certain time"** □ □□□ □□ □ □ □ k

"Time for switch to night at"

"Time for switch to normal (day) at"

□□ □/□ □ □ □□□□□ □ k □□□**00:00...23:59**

□ **"Depend to sunrise&sunset"** □ □□□ □□ □ □ □□□ □ k

Time calibration □

"Switching time move to night [-128..127]min"

□□□ □ □□□ □ □ k □□ □□□ □

□ k □□□**-128..127**

"Switching time move to day [-128..127]min"

□□□ □□□ □ □ □ k □ □□□ □

□ □ k □□□**-128..127**

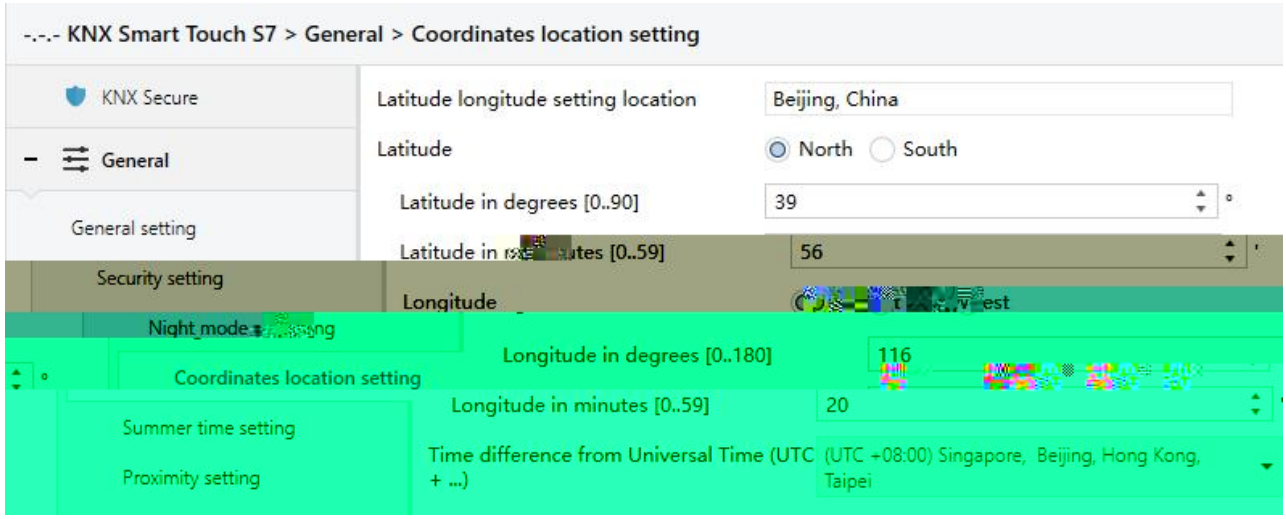
□□□-10min□□ □□ 10min □ □ □□□ 10min□□

□□□ 10min □ □ k

5.2.4 □□□□ “Coordinates location setting”

□□□□“Coordinates location setting” 5.2.4 □□□ □□□ / □□ □□

□ k



5.2.4 “Coordinates location setting” □□□□

“Latitude longitude setting location”

□□ □ □□ □□□ “Beijing,China” k

“Latitude”

□□ □□ □□ □ □□□ □ k □□□

South □

North □

- **“ Latitude in degrees [0..90]”**
- **“ Latitude in minutes [0..59]”**

□ □□□ k □ 39-56 k

"Latitude"

□ □ □ □ □ □ □ □ □ □ □ □ k □ □ □

East □

West □ □

" Longitude in degrees [0..180]"

" Longitude in minutes [0..59]"

□ □ □ □ k □ 116-20 k

" Time difference from Universal Time (UTC + ...)"

□ □ □ □ □ k □ □ □

(UTC -12□00) International Date Line West □ □ □

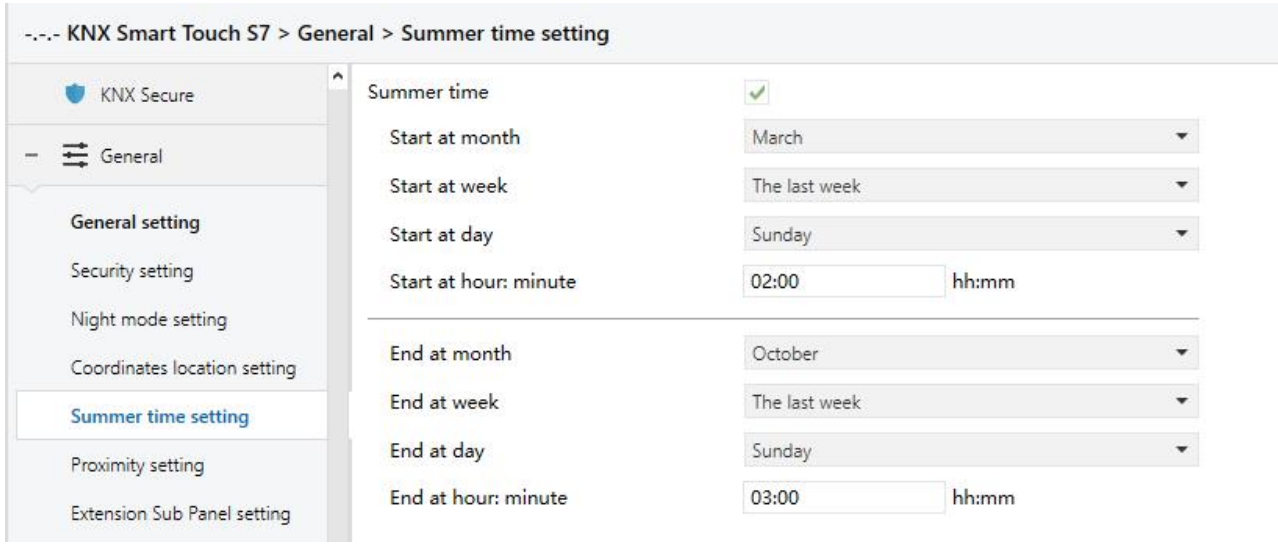
(UTC -11□00) Samoa □ □

.....

(UTC +11□00) Magadan, Salomon Islands, New Caledonia □ □ □ □ □ □

(UTC +12□00) Aukland, Wellington, Fiji □ □ □ □

5.2.5 □□□□ "Summer time setting"



5.2.5 □□□□"Summer time setting" □□□□

"Summer time"

□□ □ □k □□□

Disable

Enable

"Summer time" □ □ □□□ □□ /□ □ □k

• **" Start at month"**

• **" End at month"**

□ □□ □ □ k □□□

January

February

...

December

- **“Start at week”**
- **“End at week”**

□ □□ □ □ k □□□

The first week □

The second week □

...

The last week

- **“Start at day”**
- **“End at day”**

□ □□ □ □ k □□□

Monday

Tuesday

...

Sunday

- **“Start at hour:minute”**
- **“End at hour:minute”**

□ □□ □ □ □□□□□ □ k □□□**00:00-23:59**

□ □ □□□ 3 □□ 02h:00min □ 11 □□

02h:00min □ □ □ □ □ □ □□ □□□□□ □□

□ □ 03h:00min□ □□ □□ □□□□□ □□ □ □ 02h:00min k

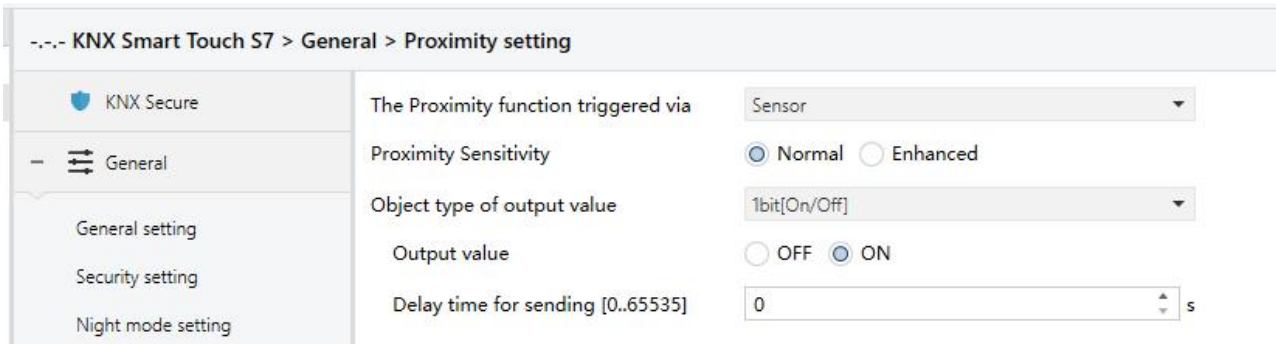
□ □ □□□ □ k □ □ □□ ! □

□□□ □ □ □□ k □□ □ □ □ k

5.2.6 □□□□ “Proximity setting”

□□□□“Proximity setting” 5.2.6 □ k □ □□□□□ □□ □□ □□

□ □ □ □ k



5.2.6 “Proximity setting” □□□□

“The Proximity function triggered via ”

□□□□ □□□ k □□□

Sensor

Proximity object

Sensor or Proximity object

□ “Sensor or Proximity object” □ □□ □ □ □ k

□ “Sensor” □“Sensor or Proximity object” □ k

“Proximity Sensitivity ”

□□□□ □□ k □ □□ 30cm□ □□ 60cm

□□□

Normal □ □□

Enhanced □□

“Object type of output value ”

□□ □□ □ □ □ □ □ k □□□

1bit[On/Off]

1byte [scene control]

1byte[0..255]

1byte[0..100%]

“Output value[On/Off]”

“Output scene NO.[1..64”

“Output value[0..255]”

“Output value[0..100%]”

□ □□ □ □□ □ □ □ □□ □□ □ □

k

“Delay time for sending[0..65535]”

□□ □ □ k □□□**0..65535**

□ □□ □ □ □□□ k

KNX/N

□ **"According to parameter"** □ □ k

- **"LED brightness in normal mode"**

  □ □ LED □ □ k □ □ □

  0...100%

- **"LED brightness in night mode"**

  □ □ □ □ □ □ LED □ □ k □ □ □

  0...100%

- **"Ambience lighting brightness in normal mode"**

  □ □ □ □ □ □ k □ □ □

  0...100%

- **"Ambience lighting brightness in night mode"**

  □ □ □ □ □ □ □ □ k □ □ □

  0...100%

- **"LED brightness in standby mode"**

  □ □ LED □ k □ □ □

  0...50%

- **"Ambience lighting brightness in standby mode"**

  □ □ □ □ k □ □ □

  0...50%

Button setting □ □ □

"Long operation for button after "

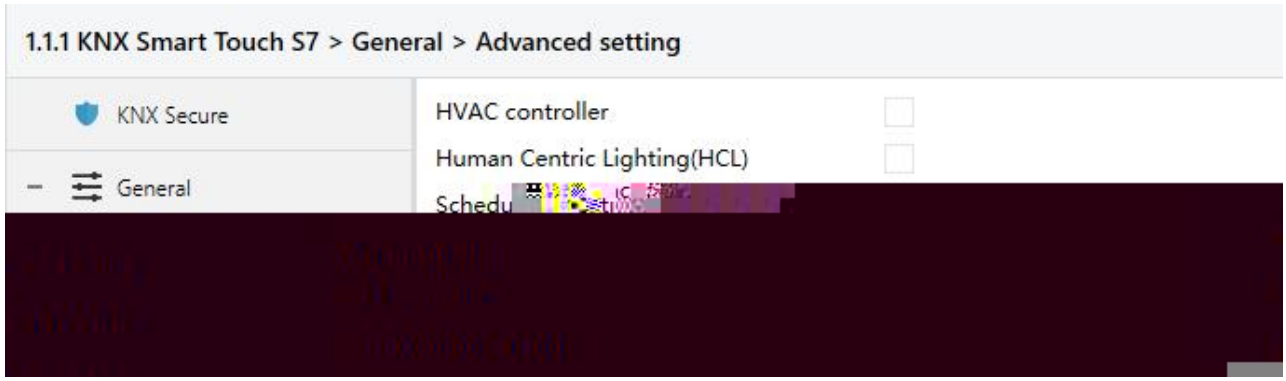
□ □ □ □ □ □ k

5.2.8 □□□□ "Advanced setting"

□□□□"Advanced setting" 5.2.8 □ k □ □ HVAC ! □ !

□ ! □ □ ! □□ □ ! □ □ k

□□ □□□□ 5.3-5.8



5.2.8 "Advanced setting" □□□□

5.3 □□□□ "HVAC controller"

□□□ 5.2.8"Advanced setting" □ "HVAC controller"□ □ □□ 5.3 □ k

5.3 "HVAC controller" □□□□

" Number of controllers (max.6)"

□□ HVAC □ k □□□**1-6**

5.3.1 □ □ □ □ “Cotroller x-Room temperature controller

Ventilation controller

"Room temperature reference from "

□ □ □ □ □ □ □ k □ □ □

Internal sensor □

External sensor □

Internal and External sensor combination □ □ □

□ **Internal sensor combine with External sensor** □ □ k

• • **"Combination ratio"**

□ □ □ □ □ □ k □ □ □

10% Internal to 90% External

20% Internal to 80% External

...

80% Internal to 20% External

90% Internal to 10% External

□□ □ "40% Internal to 60% External"□□ □ 40%□ □ □ 60%

□ □ □ =□ □ □ □ Ô40%□+□ □ □ □ Ô60%□ □ □ □ □ □

□ □ □ □ □ □ □ k

□ □ □ □ □ □ □ k

• • **"Period for request external sensor [0...255,0=inactive]"**

□ □ □ □ □ □ □ □ □ k □ □ □ **0...255min**

• • **“Send temperature when the result change by [0...10]”**

□ □ □ □ □ □ □ k □ □ □

Disable

0.5K

1.0K

1.5K

...

10K

• • **“Cyclically send temperature [0...255,0=inactive]”**

□ □ □ □ □ □ □0 k □ □ □**0...255min**

”Control value after temp. error [0..100](if 2-point control, set value '0'=0, set value '>0'=1) ”

□ □ □ □ □ □ k □ □ □**0..100%**

□ □ □ 0 □ 0□ 0 □

1 k

”Room temperature control mode ”

□ □ □ □ □ □ k □ □ □

Heating

Cooling

Heating and Cooling

Heating and Cooling□ □ □ □ □ k □ □ k

- **“Heating/Cooling switchover”**

□□ □/ □ k □□□

Via object

Automatic changeover

- **“Heating/Cooling status after download”**

□□ □ □ RTC □ □ □/ k □□□

Heating

Cooling

- **“Heating/Cooling status after voltage recovery”**

□□ □ □ RTC □ □ □/ k □□□

Heating □

Cooling

As before voltage failure □ □ □

As before voltage failure□ □ □ □ □ □□ k□ □

□ □ □□□ □□□ □ □ □ □ □ □□ □

k

- **“ Room temperature control system”**

□□□ □□□□ □ □ □□□ □□□□ k □□□

2 pipes system

4 pipes system

2 pipes system: □□□□ □ □ □ □□ □ □ □ □□ k

4 pipes system: □ □ □ □ □ □ □ □ □ □ □ □ □

□ □ k

"Operation mode"

□ □ □ □ □ k

"Operation mode" □ □ □ k

• • **" Initial setpoint temperature"**

□ □ □ k □ □ □

10.0

10.5

...

34.5

35.0

• • **"Min./Max. setpoint temperature [5..37] "**

□ □ □ □ □ □ □ □ □ k □ □ □ □ k □ □ □ □ □

□ □ □ k □ □ □

5-C

6-C

37-C

"Room temperature control mode"□ "Heating and Cooling" "Heating/Cooling switchover"□ "Automatic changeover" □ k

• • " Upper /Lower dead zone"

□ □□□ □/ □ □ k □□□

0.5K

1.0K

...

10.0K

□ □ □□ □ □ □ + □ □ □ □

□ □□ □ □ □ □ - □ □ □ k

"Operation mode" □ □ □ k

• • " Controller status after download"

□□ □ □ □ □ k □□□

Standby mode

Comfort mode □□

Economy mode □□

• • "Controller status after voltage recovery "

□ □ □ RTC □ k □□□

Comfort mode □□

Standby mode

Economy mode □□

Frost/heat protection

As before voltage failure □ □ □

• • **“Extended comfort mode [0..255,0=inactive] min”**

□ □ □ □ □ □ □ k >0 □ □ □ □ □1bit “comfort mode” □ k □ □ □

0..255

1 □ □ □ □ □ □ □ 1 □ □ □ □

□ □ □ □ □ □ k □ □ □ □ □ □ □ k

□ □ □ □/ k

• • **“1 bit object function for operation mode”**

□ □ □ □ □ 1bit k 1 □ □ □ □ □ □ □

□ □ ! □ □ □ 0 □ □ k

• • **“1 bit object for standby mode”**

□ □ □ k □ □ □ □ □ 1bit k

“Fan speed auto control function ”

□ □ □ □ □ □ □ □ k

“Window contact input function ”

RTC □ □ □ □ □ □ □ □ □ □ k

”Window contact input function” □ □ □ k

• • **“Delay for window contact [0..65535]s”**

RTC □ □ □□□ □ □ □ k □□□ □□ □ □□ □

□ □ □ □ □ □ □ □ □ □□□□□ □ □ □ □□

k □□□**0..65535**

• • **“Controller mode for open window”**

RTC □ □ □□□ □ □ □ k □ open □ □ □□

□□ k □ □ ! □ □ □/ □

□ □ □ □□ □ k □ □ □ □ □ k □ □□□

Economy mode □□

Frost/heat protection

“Bus presence detector function”

RTC □ □ □ k □□ □ □ k

□ □ □□ □ □ □ k □ □/ □□

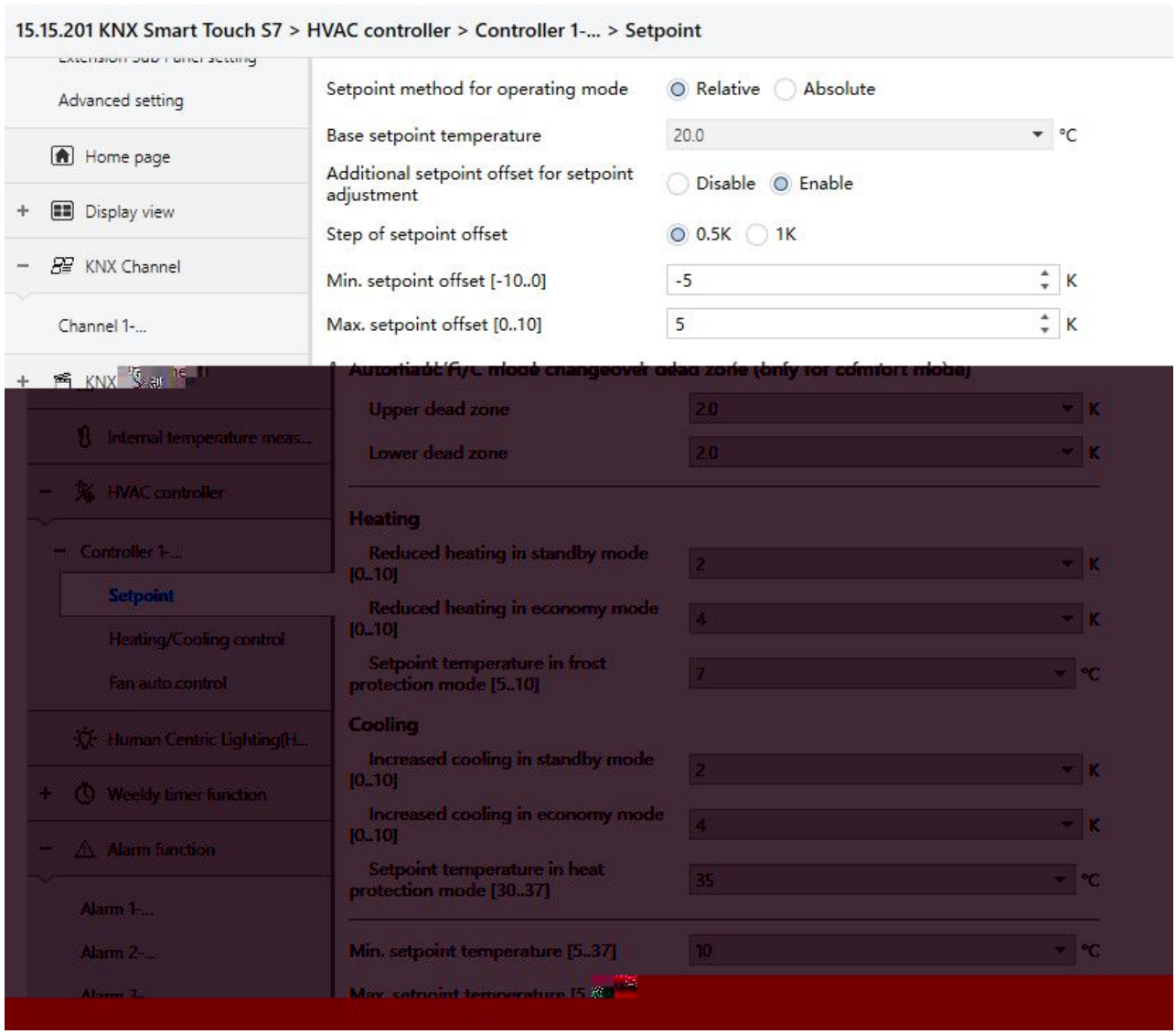
□ □ □ □ □ k □ □ □ □ □ □□ □□

k □

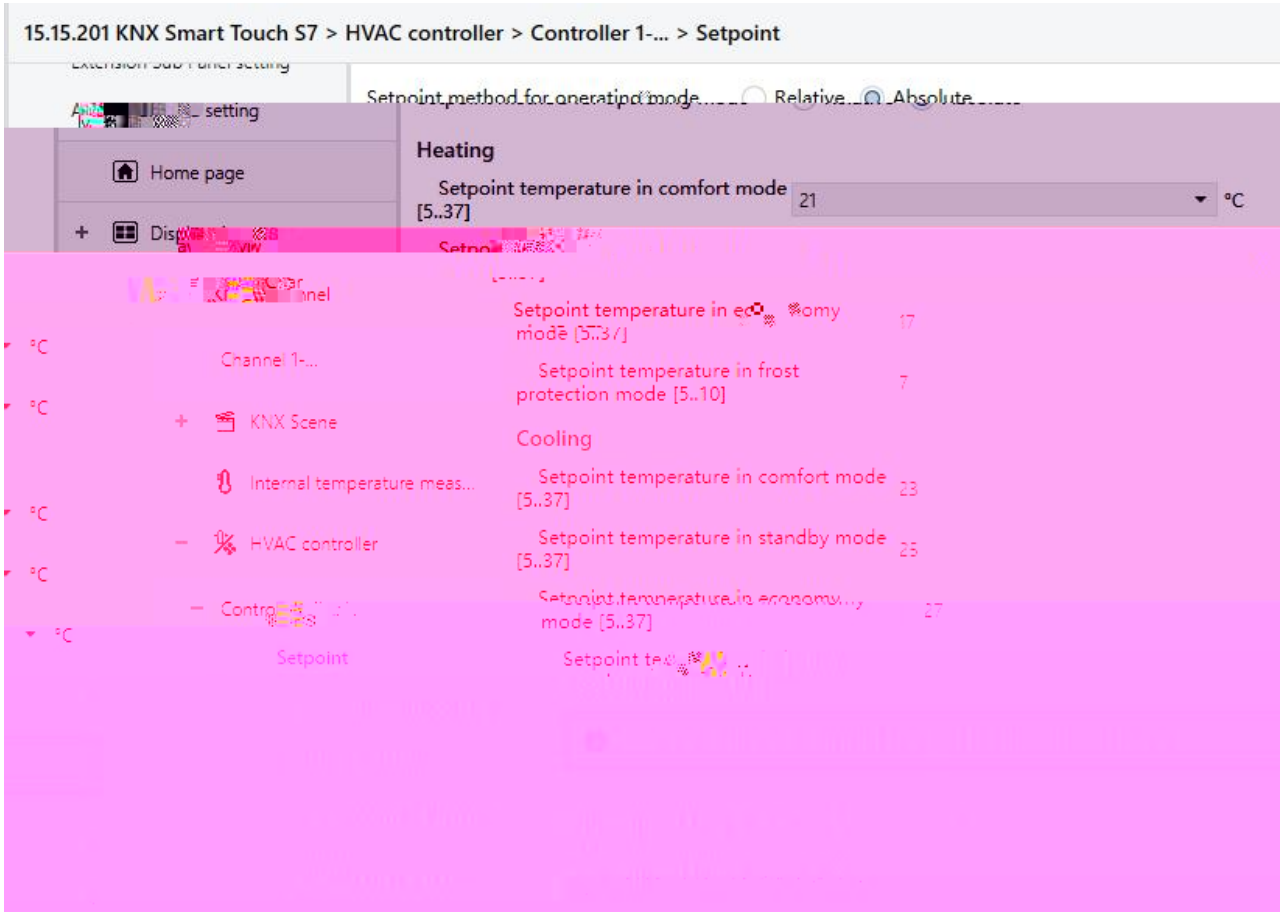
5.3.1.1 □□ □□ “Setpoint”

□□ □ □ ”Room temperature controller (RTC)” □□ □□

5.3.1.1 □ k



□ □ □□



□ □ □□

5.3.1.1"Setpoint" □□□□

"Setpoint method for operating mode"

□□□ □ □□ k □□□

Relative

Absolute

Relative□□ □ □□□ □□ □ □ □ □ □ k

Absolute□□ □ □ □ □ □□□□ □ k

□ □ □□□ □ □ □□ □k

"Base setpoint temperature"

□□□ □ □ □ □□□ □ □ □ □ □ k □□□

10.0

10.5

...

35.0

□□ □ "Base setpoint adjustment" □ □ □ □ k

□ □ = □ □ +/-□□ □ □ □

□ □□ □ □ □□ □ □□ □ □k !□□

□ □□ □ □□k

"Additional setpoint offset for setpoint adjustment"

□□ □□ □ □□ □ □ □□ □□ □□ 1bit □ □□ □ □

□ k □□□

Disable

Enable

□□ 1bit "Setpoint offset" / □ □□ □ □ □ □ □□ 2byte "Float offset value" □ □ k □ □□ 1bit "Setpoint offset reset" □ □□ □□□ □ 2byte"Float offset value" □ □ k □ □ k

□ □ □ □ □ k

• • **“Step of setpoint offset”**

□ □ □ □ / □ □ □ 1- □ 0- k □ □ □ □

□ k □ □ □

0.5K

1K

□ □ □ = □ + □ + □ □ □ □

□ □ □ □ □ □ □ □ □ □ □ □/ □ □ □

k □ □ □ □ □ **1bit** □**Setpoint offset** □ □ □ **2byte** □**Float offset value** □ □

k

• • **“Min. setpoint offset [-10..0]K”**

□ □ □ □ □ □ □ □ □ □ □ □ □ k □ □ □ **-10..0**

• • **“Max. setpoint offset [0..10]K”**

□ □ □ □ □ □ □ □ □ □ □ □ □ k □ □ □ **0..10**

Automatic H/C mode changeover dead zone (only for comfort mode)

”Upper/Lower dead zone ”

□ “Heating and Cooling” “Automatic changeover” □ □ □ k □ □ □

□ □ k □ □ □

0.5K

1.0K

...

10K

□ □ □□ □ □□ □□ + □ □ □ □

□ □□ □ □□ □□ - □ □ □ k

"Reduced heating in standby mode [0...10]K"

"Increased cooling in standby mode [0...10]K"

□ □□ □□ □ k □□□

0K

1K

...

10K

Heating□ □□ □ □ □ □□□ □

Cooling□ □□ □ □ □ □□□ k

"Reduced heating in economy mode [0...10]K"

"Increased cooling in economy mode [0...10]K"

□ □□□□ □□ □ k □□□

0K

1K

...

10K

Heating□□□ □□ □ □ □□□ □

Cooling□□□ □□ □ □ □□□ k

"Setpoint temperature in frost protection mode [5...10]-C"

□□ □ □□ □□ □ k □□□

5°C

6°C

...

10°C

□ □ □ □□□ □□ □ □ □ □ □ □ □ □

□ □ □□ □ k

"Setpoint temperature in heat protection mode [30...37]-C"

□□ □□□ □□ □ k □□□

30°C

31°C

...

37°C

□□ □ □ □□□ □□ □ □ □ □ □ □

□ □□ □ □ k

□ □ □□□ □ □ □□ □ k

" Setpoint temperature in comfort [5 37]-C"

"Setpoint temperature in standby mode [5...37]-C"

"Setpoint temperature in economy mode [5...37]-C"

□ □□ □ □ □ □□□! □□ □□ □ k □□□

5°C

6°C

...

37°C

"Setpoint temperature in frost protection mode [5...10]"

□□ □ □□ □□ □ k □□□

5°C

6°C

...

10°C

"Setpoint temperature in heat protection mode [30...37]"

□□ □□□ □□ □ k □□□

30°C

31°C

...

37°C

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

□ □ □□ □**Heating and Cooling**□ □**Automatic changeover**□ □ □□ □ k

□ □□ □ □ □ □ □□ □ □□ □**Via object**□ k

1. □ □ □ □□ □ □ □□ □ □

□□ □ □ □ k

2. □ □ □ □□ □ □□□ □□□ □ k

□□□ □ □□ □ □□ □ k

3. □□ □ □□ □□□ □□ □ □ □ □ /

□ □ □ □ □ □□ □ □□ □

□□ □ □ k

4. □ □ □□ □ □□ □□ □ □ □□ □ □ □

□□□ □ □ □□ □□□□ □ k

□□ 2 ! 4 □ □□ □Via object□ k

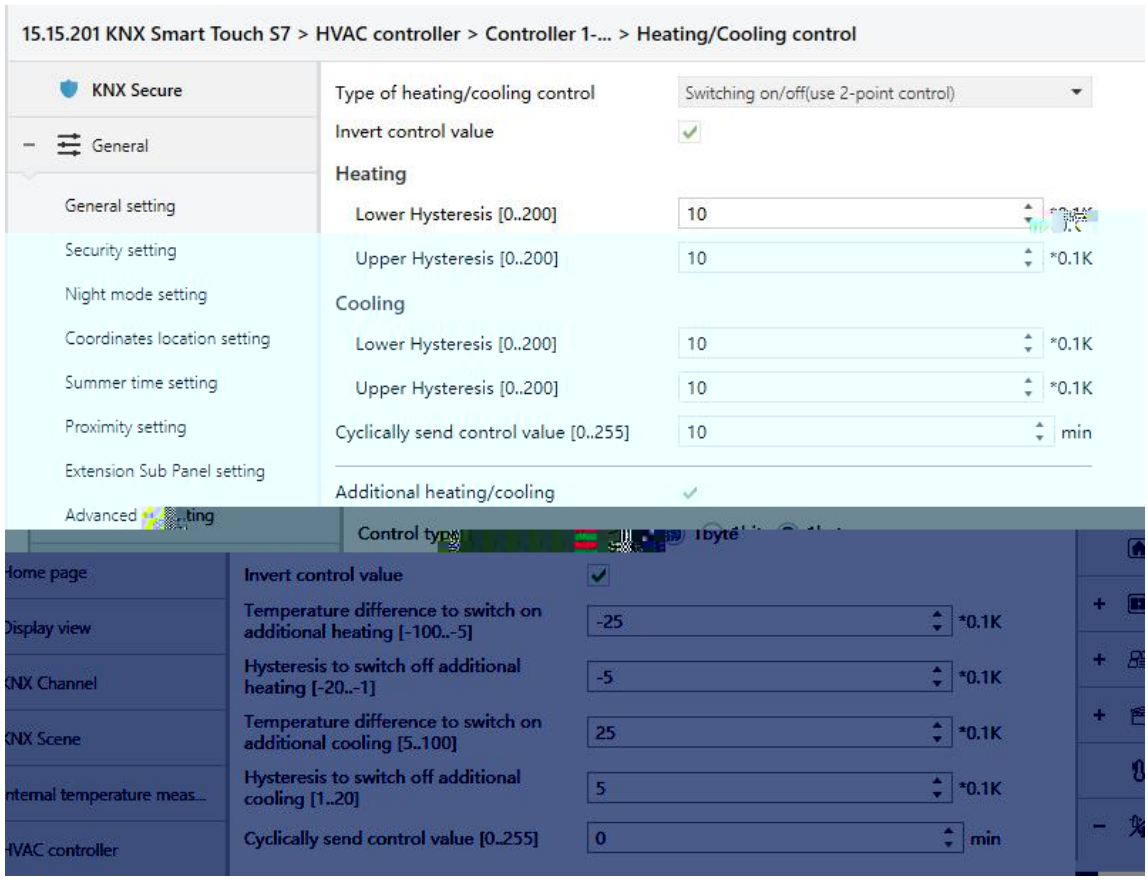
□ □ /□ □ □ □□ □ □ ETS □□ k □ □□ ETS □

□□ □□ □ □□ □ □ □ □ k

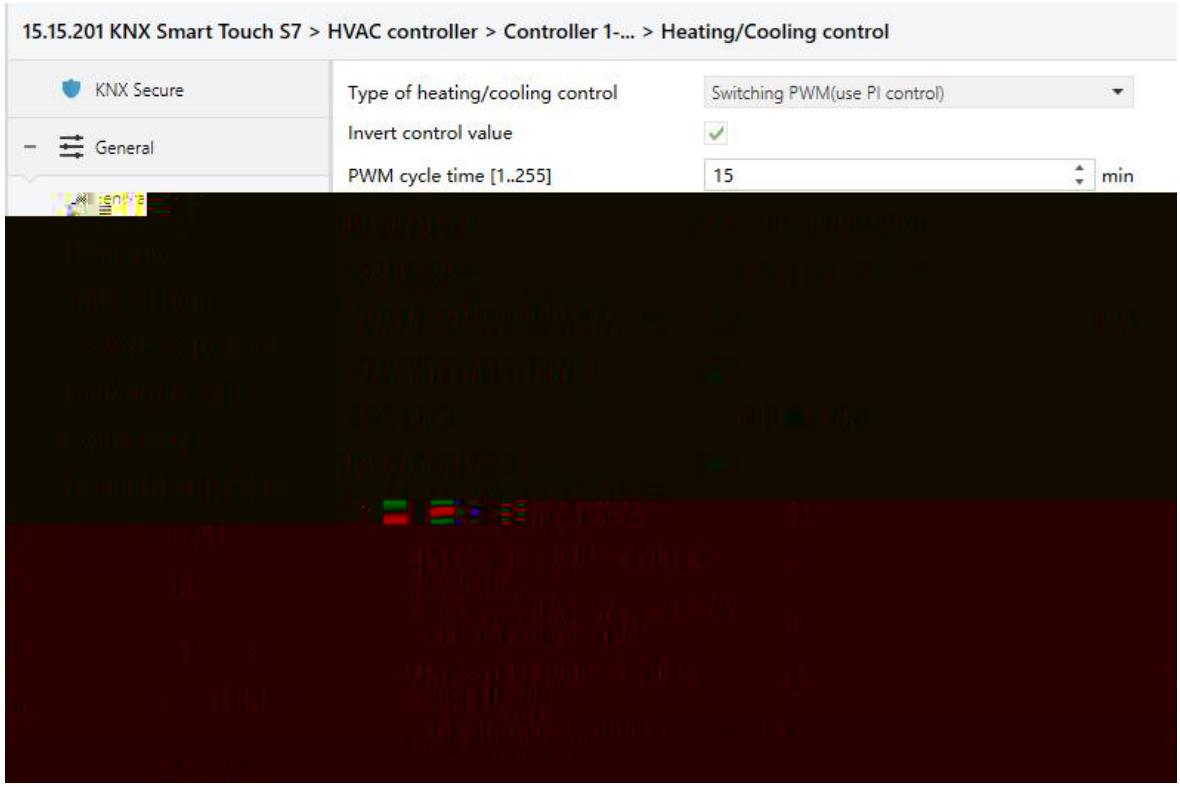
5.3.1.2 □□ □□ “Heating control/Cooling control/Heating/Cooling control”

□□ □ □ ”Room temperature controller (RTC)” □□ □□

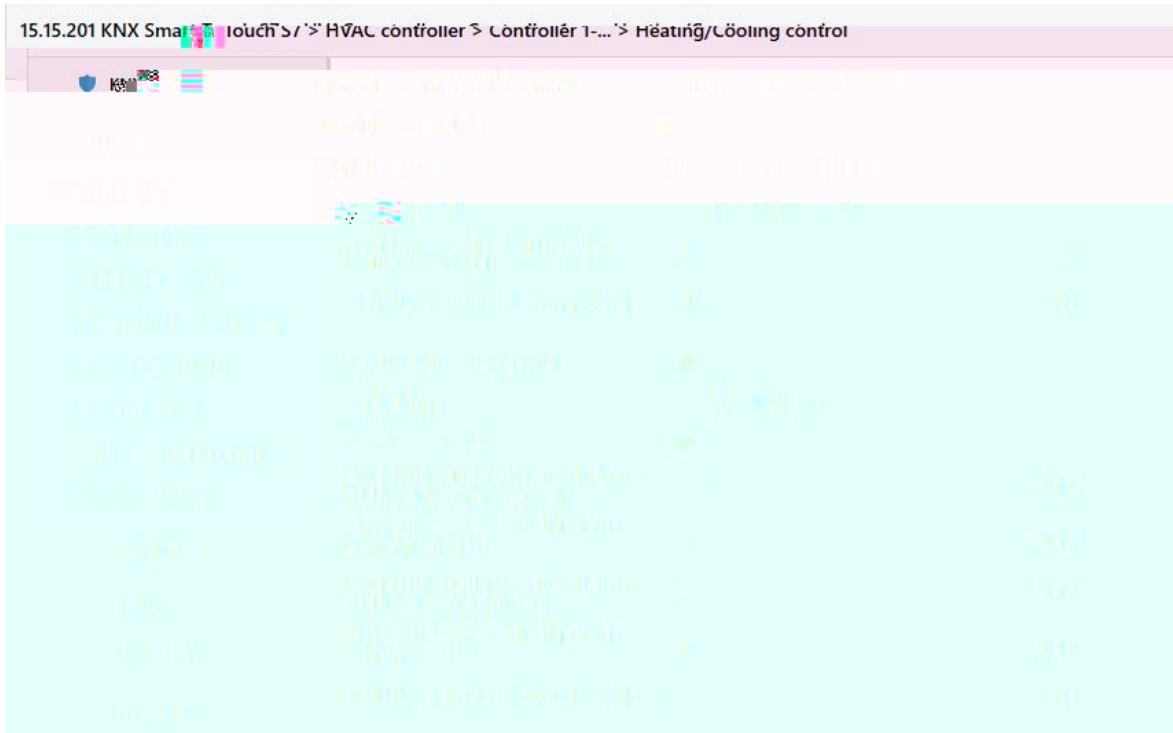
5.3.1.2 □ k



Switching on/off(use 2-point control)



Switching PWM(use PI control)



Continuous control(use PI control)

5.3.1.2”Heating control/Cooling control/Heating/Cooling control” □ □ □ □

KNX/EIB KNX □

□ 1K□□□ 2K□□ □ 22℃□T□□24℃ □ □□

T 21℃ □ □□T 21~24℃ □ □□ □□□□ k

□ □

□□ □T□<□ □ - □ □ □

□□ □T□>□ □ +□□ □ k

□ 1K□□□ 2K□□ □ 26℃□T 25℃ □ □

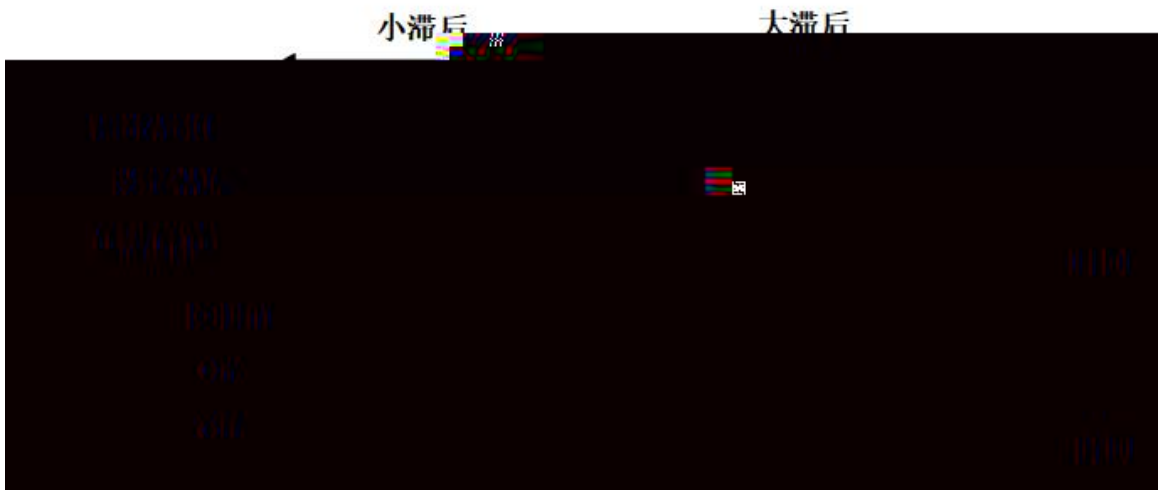
T□ 28℃ □ □T 28~25℃ □ □□ □□□□ k

□ □□ □ □ □□ □□□ □ □□□□ □□□□□ □□ □□ □

□□ □ □ □□□ □ □□□□ □

1.□ □□ □□ □ □ □ □□□ □ □ □ □□□□

2.□ □ □ □□□ □ □ □□□□ k



5.3.1.2(2) □ □ □ (□)

□□ PWM (PI control)

□PWM cycle time [1...255]min□

□ "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

□□ PI (PI control)

□Heating speed□

"Cooling speed"

□ □□ □ PI □ □ k □ □ □□ □□ k

□□□

Hot water heating (5K/150min) □

Underfloor heating (5K/240 min)

Electrical heating (4K/100min) □□

Split unit (4K/90min)

Fan coil unit (4K/90min) □ □ □

User defined □ □

□ □ □

Cooling ceiling (5K/240min) □

Split unit (4K/90min)

Fan coil unit(4K/90min) □ □ □

User defined □ □

- **"Proportional range [10..100]*0.1K"**
- **"Reset time [0..255]min"**

□ □ "User defined" □ □ □ k □ □ PI □ PI k

□ □ □ **10..100**

□ □ □ **0..255**

"Send control value on change by [0...100,0=inactive]"

□ "Continuous control (use PI control)" □ □ □ □ □ □

□ k □ □ □ **0..100%□0□**

PI □ □ □□ PI □□ □ :

□1□ □□□

□□	**P**	**I □□ □□**	**□ PI □**	**□ PWM □**
Hot water Heating	5K	150min	Continuous/PWM	15min
Underfloor heating	5K	240min	PWM	15-20min
Electrical heating	4K	100min	PWM	10-15min
Split unit	4K	90min	PWM	10-15min
Fan coil unit	4K	90min	Continuous	--

□2□

□	**P**	**I □□ □□**	**□ PI □**	**□ PWM □**
Cooling ceiling	5K	240min	PWM	15-20mIn
Split unit	4K	90min	PWM	10-15min
Fan coil unit	4K	90min	Continuous	--

□3□□ □

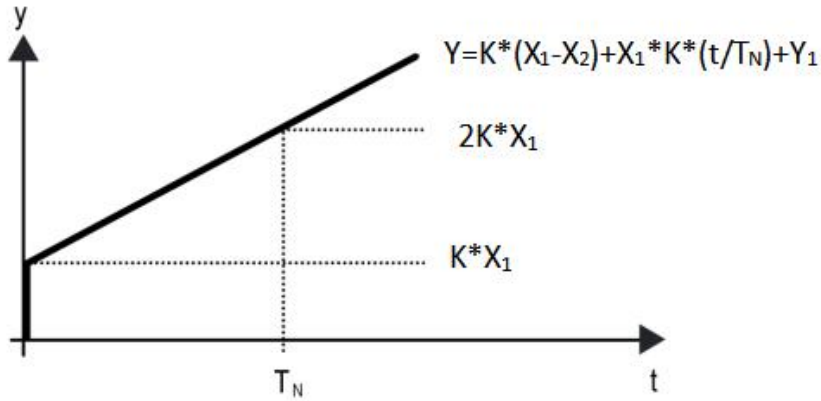
“Heating/Cooling speed”□□ “User defined” □ □□ □□ P□ □ □□

I□□ □□□ k □ □ □ □ PI □□□ □□ □

□ □ □ □ □ k

□□ □□□□ □□□ □□ □□ □ □ □□ □□ □□ □

□ □□□ k 0 □□ □□ □ k



5.3.1.2(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: □ □□□	□□ □ □

"Cyclically send control value 0...255"

□□ □ □□ □ k □□□**0..255min**

"Additional heating"

□□ □ □ □ □□□ k

"Additional heating" □ □ □ k

- **"Control type"**

□□□ □□□□ □ k □□□

1bit

1byte

- **"Invert control value"**

□□ □□ k

□ □ □□□□

• • **“Temperature difference to switch on additional heating [-100..-5]*0.1K”**

□□ □ □□□□□ □□ □ □ <□□ □ + □ □□ □ □□

□ k □□□**-100...-5**

• • **“Hysteresis to switch off additional heating [-20..-1]*0.1K”**

□□ □□ □□□□□ □□ □ □ >□□ □ + □ -□ □□□ □

□ □□□ k □□□**-20 -1**

□ □□□ □ □□ |□ |<|□ |□ □ □ **□ETS** □

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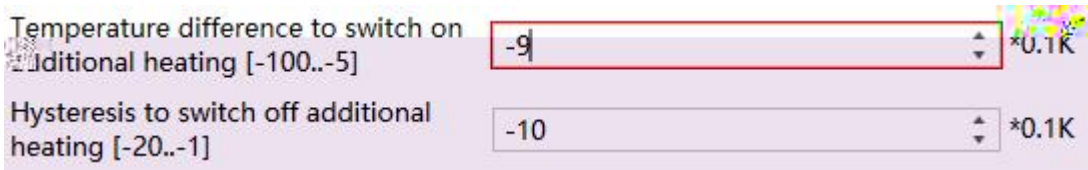


□ □ □□□

• • **“Temperature difference to switch on additional cooling [5..100]*0.1K”**

□□ □ □□□□ □□ □ □ >□□ □ + □ □□ □ □

□ k □□**□5...100**

• • **“Hysteresis to switch off additional cooling [1..20]*0.1K”**

□□ □□ □□□□□ □□ □ □ <□□ □ + □ -□ □□□ □

□ □□ k □□**□1...20**

□ □□ □ □□ |□ |<|□ |□ □ □ □ETS □

□□□□ □□□ □ □ □□

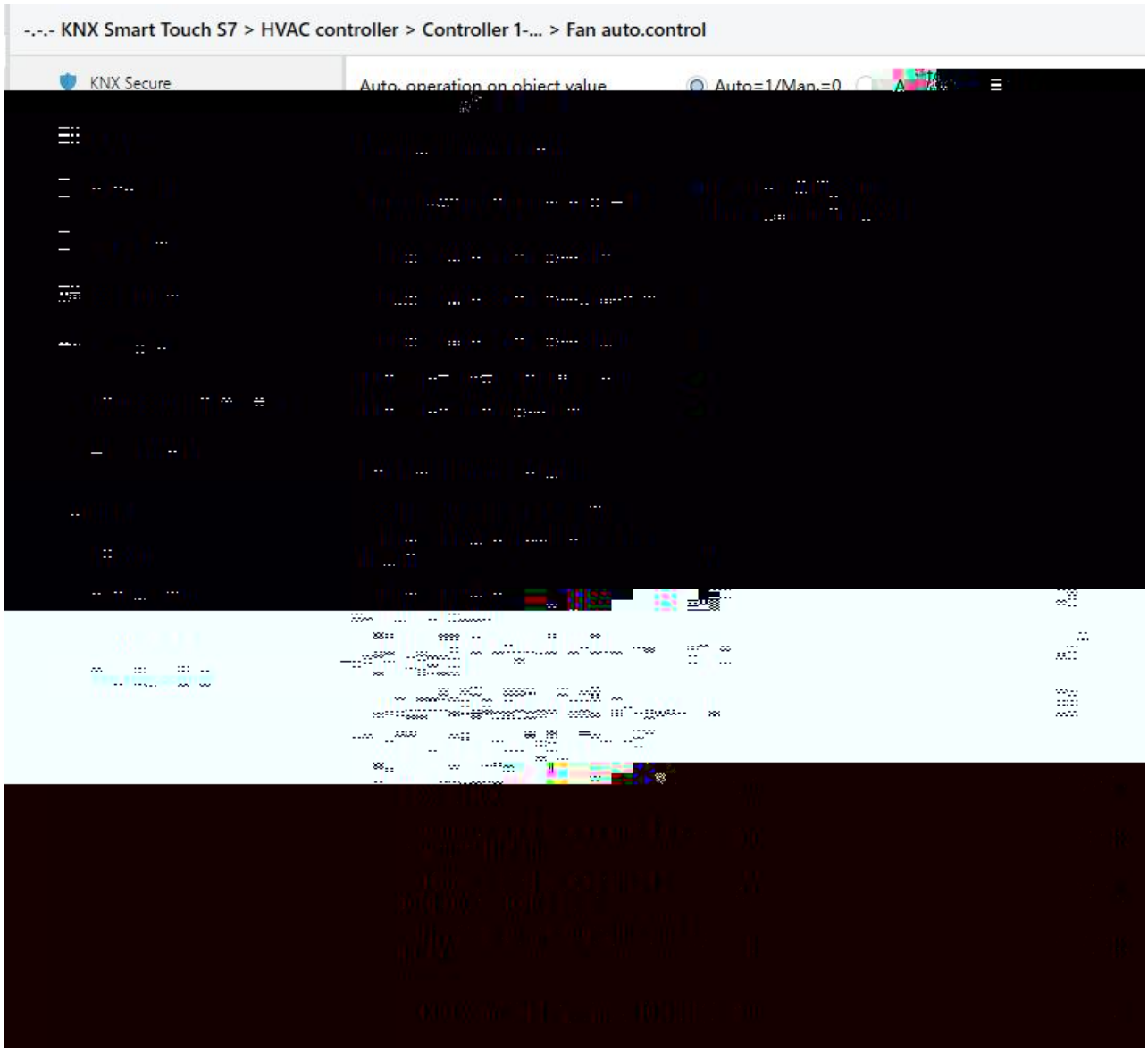
“Cyclically send control value [0..255]min”

□□ □ □□ □ k □□□0、255

5.3.1.3 □□ □□ “Fan auto.control”

□□ □ □ ”Room temperature controller (RTC)” □ □□ □ □□ 5.3.1.3

□ k



5.3.1.3”Fan” □□□□

"Auto. operation on object value"

□ □ □ □ k □ □ □

Auto=1/Man.=0

Auto=0/Man.=1

Auto=1/Man.=0 □ "Fan automatic operation" "1" □ □ □ □ "0" □ □ □

Auto=0/Man.=1 □ "Fan automatic operation" "0" □ □ □ □ "1" □ □ k

□ □ □ □ □ □ k

Fan speed output setting □ □ □

"Object datatype of 1byte fan speed"

□ □ 1byte □ □ □ □ k □ □ □

Percentage (DPT_5.001)

Fan stage (DPT_5.100)

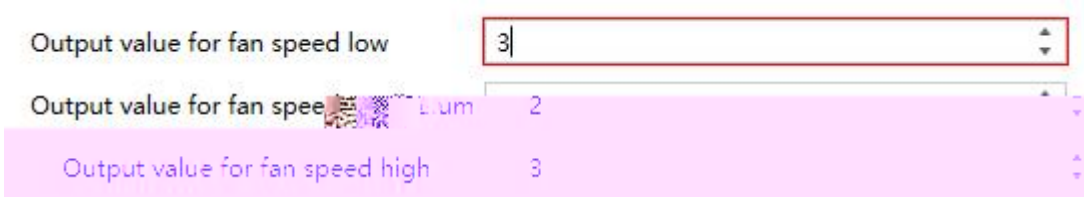
"Output value for fan speed low/medium/high"

□ □ □ k 0 □ □ □ k

□ □ □ □ □ □ **1..255 /1..100%**

□1byte □ □ □ □ □ □ □ < <□ □ □ □ □ ETS □

□ □ □ □ □ □ □ □ □ □ □ □



"1 bit object function for fan speed"

□ □ □ □ □ □ 1bit □ k □ □ □ □ □ 1bit □ k

"1 bit object for fan speed off "

□ □ □ k □ □ □ □ □ 1bit □ k

Fan speed control setting □ □ □ □

Condition setting for using PI control □ □ PI □ □ □ □ □

□ PI □ □ □ □ □ □ □ PI □ □ □ □ □ □ □ □ □

□ □ □ □ □ □ k

"Threshold value speed OFF<-->low [1..255]"

□ □ □ □ □ □ k □ □ □ **1..255**

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ k

"Threshold value speed low<-->medium [1..255]"

□ □ □ □ □ □ k □ □ □ □ □ □ □ □ □ □

□ k □ □ □ **1..255**

"Threshold value speed medium<-->high [1..255]"

□□ □ □□□□ k □ □ □□□□ □ □□□ □

□ k □□□**1..255**

□□ □ □ □ k

□ □ ° **OFF <->** □□□□ ° □□**<->** □□ ° □□ **<->**□□□ k

□ □□ □ □ □□

OFF <-> □□□□ □□ **<->** □□□□ □ □□ **<->** □□□□ □□ **<->**□□

□□□ k

"Hysteresis threshold value in +/-[0..50]"

□□□ □□ □□ □ □ □□ □□ □□ k □□□

0..50

0□ □ □ □ □□ □ □□□

□□ 10□□ 50□□ □□ 60□□ +□ □□ □□ 40□□ -□

□□□ 40~60 □ □ □□ □ □ □ □□ k 40

(□)60 □ □□□□ k

Condition setting for using 2-point control □□ □ □□□ □ □□

□ 2-point □ □ □□ □ □ □□ □ □ □□ k

□□ □ □□ -□ □ □

□ □□ □□ □ - □□ k

"Temperature difference speed OFF<-->low[1..200]*0.1K"

□ □□□□ k □□□**[1..200]*0.1**

□ □ □ □□□□ □ □□ □□□ □ □ □ □ k

"Temperature difference speed low<-->medium [1..200]*0.1K"

□□ □□□□ k □ □ □ □□□□ □ □□ □

□ k □□□**1..200**

"Temperature difference speed medium<-->high [1..200]*0.1K"

□□ □ □□□□ k □ □ □ □□□□ □ □□□

□□ k □□□**1..200**

"Hysteresis temperature difference in [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

"Minimum time in fan speed [0..65535]"

□ □□ □ □□□ □□ □ □ □□ □□□□□

□ k

□ □ □□□□□□ □ □ □□ k

□□ □□□ □ □□□□ □□ k □□□**0..65535**

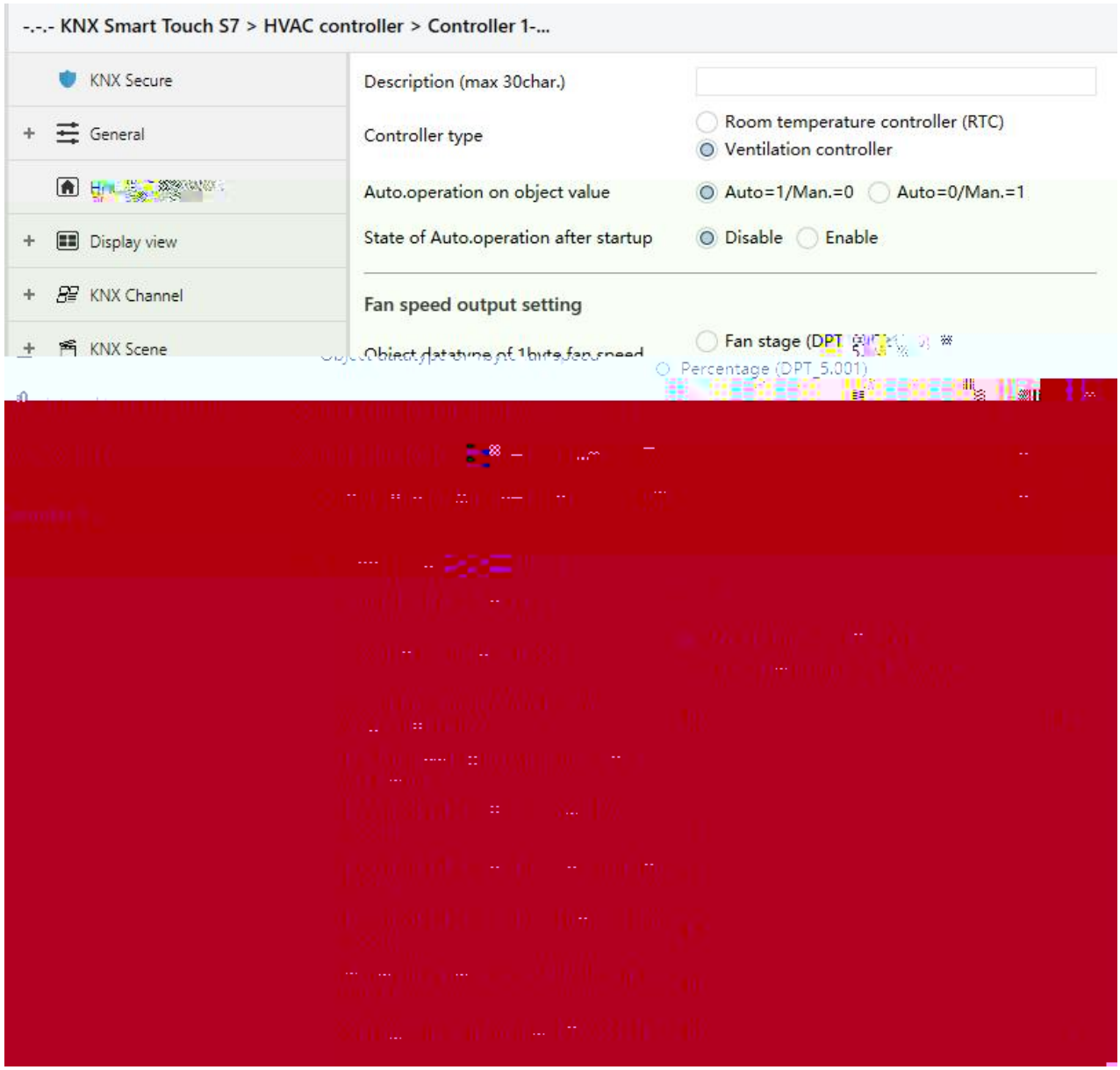
0□□□ □□ □□ □□□□□□ □ k

□ □□□ □ □ □ □ k

5.3.2 □□□□ "Cotroller x-Ventilation controller"(x=1~6)

□ □ □ □, □□□□□ □ PM2.5 CO2□VOC □□□ ,□

5.3.2 □ k



5.3.2 "Cotroller x-Ventilation controller"(x=1~6) □□□□

"Auto. operation on object value"

□ □ □ □ k □ □ □

Auto=1/Man.=0

Auto=0/Man.=1

Auto=1/Man.=0 □ "Fan automatic operation" "1" □ □ □ □ "0" □ □ □

Auto=0/Man.=1 □ "Fan automatic operation" "0" □ □ □ □ "1" □ □ k

□ □ □ □ □ □ □ k

"State of Auto.operation after startup"

□ □ □ □ □ k □ □ □

Disable

Enable

Fan speed output setting □ □ □ □ □

"Object datatype of 1byte fan speed"

□ □ 1byte □ □ □ □ k □ □ □

Percentage (DPT_5.001)

Fan stage (DPT_5.100)

"Output value for fan speed low/medium/high"

□ □ □ k 0 □ □ □ k

□ □ □ □ □ □ **1..255 /1..100%**

Fan speed control setting □ □ □ □

"Control value reference from"

□ □ □ □ □ k □ □ □

PM2.5

CO2

VOC

" Object datatype of PM2.5/VOC"

□ □ □ PM2.5 □ VOC □ □ k □ □ □ □ PM2.5 VOC

□ □ k □ □ □

Value in ug/m3(DPT 7.001)

Float value in ug/m3(DPT 9.030)

DPT_7.001 □ □ □ k

DPT_9.030 □ □ □ □ k

"Object datatype of CO2"

□ □ CO2 □ □ k □ □ □ □ CO2 □ □ k

□ □ □

Value in ppm(DPT 7.001)

Float value in ppm(DPT 9.008)

DPT_7.001 □ □ □ k

DPT_9.008 □ □ □ □ k

"Period for request control value [0...255,0=inactive]min"

□□□ □ □□ □ □ □□ □ □ k □□□

0..255

"The fan speed status when the control value error"

□□ □□□ □ □□□ □□□ k □□□

Off

Low

Medium

High

"Threshold value OFF<-->speed low [1..999]/ [1...4000]"

□ □□□□ k □□□**1..999/1..4000**

□ □ □□□□ □ □□ □□□ □ □ □ □ k

"Threshold value speed low<-->medium [1..999]/ [1...4000]"

□□ □□□□ k □ □ □□□□ □ □□ □

□ k □□□**1..999/1..4000**

"Threshold value speed medium<-->high [1..999]/ [1...4000]"

□□ □ □□□□ k □ □ □□□□ □ □□□ □

□ k □□□**1..999/1..4000**

□□ □ □ □ k

□ □ ° **OFF <->** □□□□ ° □□<-> □□ ° □□ <->□□□ k

□ □□ □ □ □□

OFF <-> □□□□ □□ **<->** □□□□ □ □□ **<->** □□□□ □□ **<->**□□

□□□ k

"Hysteresis value is threshold in +/- [10..30]/[100..400]"

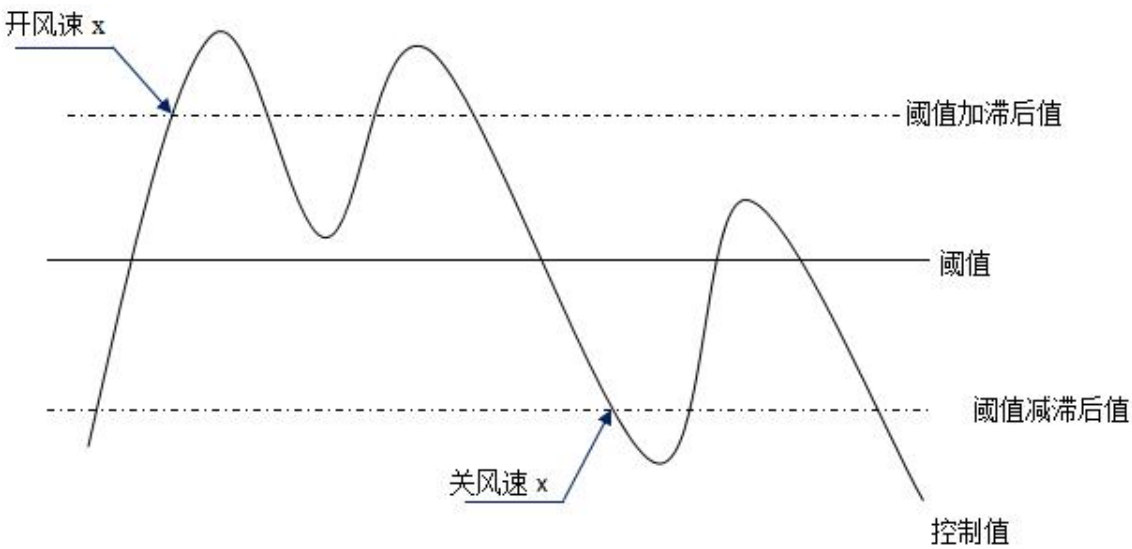
□□□ □□ □□ □ □ □□ □□ □□ k

□□□**10..30/100..400**

CO2□□ 100□□ 450□ □□ 550□□ +□ □□ □□ 350

□□ -□ □□ 350~550 □□ □□ □ □ □ □□ k

350 □ 550 □ □□□□ k □



□

□□ □□ □ □□ □□ □ □ □

1□□ □□□ □□ □□

2□ □□□ □□ □□□□ □ □ □□□□ k

□1□□

PM2.5

OFF <-> □□□□ 35

□□ <-> □□□□ 55

□□ <->□□□□□ 75

□ 25

□ □□□ OFF □□ □

□ OFF □ 60□ 25+35□□ □ □□□ □□□ 60 55 75 □□

□□□□ □□ □□ □ □□□

□ □□□ □□□ □ □□ □

□ □□□□ 50□<75-25□□ □ □□□ □□□ 50 35 55 □□

□□□□ □□ □□ □ □□ k

□2□□

PM2.5

OFF <-> □□□□ 20

□□ <-> □□□□ 40

□□ <->□□□□□ 70

□ 10

□ □□□ OFF □□ □

□ OFF □ 30□ 20+10□□ k

□ 41□ □□□ □□□ 41 40 70 □□ □□□□ □□

□□ □ □ □□

□ 39□ □□□ □□□ 39 20 40 □□ □□□□ □ k

□ □□□ □□□ □ □□ □

□ □□□□ 60□<70-10□□ k

□ 39□ □□□ □□□ 39 20 40 □□ □□□□ □□

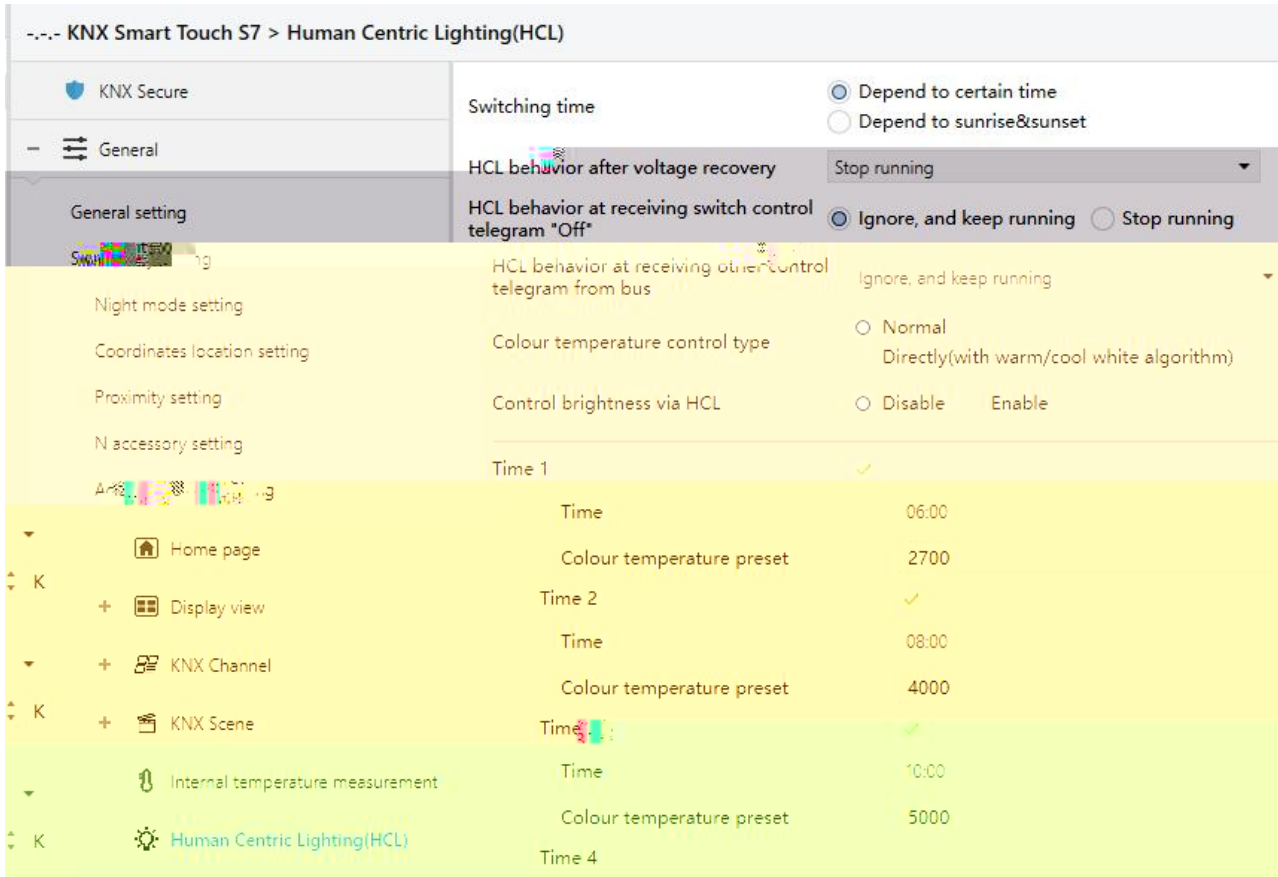
□□ □ □□ k

3□ □ □ 0□□ □

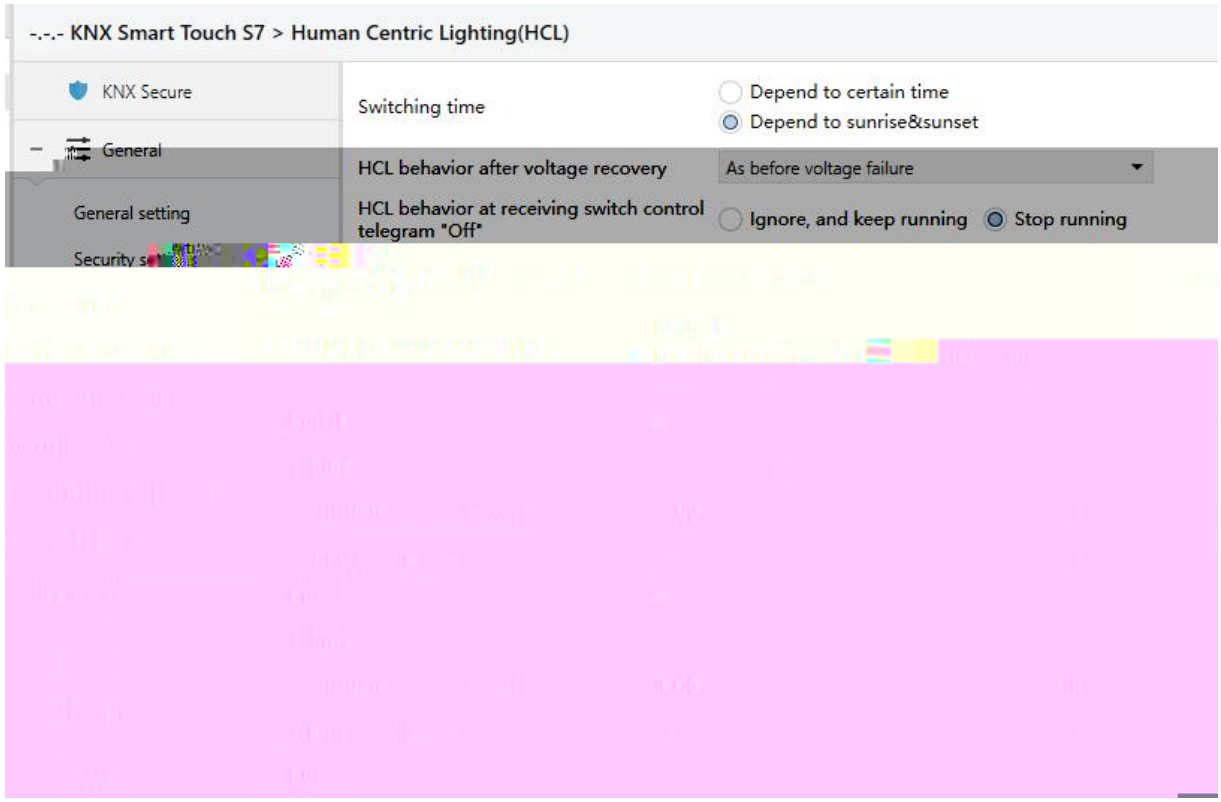
5.4 □□□□ “Human Centric Lighting(HCL)”

□□□ 5.2.8“Advanced setting” □ “Human Centric Lighting(HCL)”□ □ □□

5.4 □□□ □ □ □ □□ □ □□ k



“Human Centric Lighting(HCL)-Depend to certain time



"Human Centric Lighting(HCL)-Depend to sunrise&sunset"

5.4 "Human Centric Lighting(HCL)" □ □ □ □

"Switching time"

□ □ □ □ k □ □ □

Depend to certain time □

Depend to sunrise&sunset □

"HCL behavior after voltage recovery"

□ □ □ □HCL □ □ □ k □ □ □

Start running □ □

Stop running □ □

As before voltage failure □ □ □ □ □

"HCL behavior at receiving switch control telegram "Off""

□ □ HCL □ □ □ Off HCL □ □ □ k □ □ □

Ignore, and keep running

Stop running

Ignore, and keep running □ □ □ □ □ □ □ Switch control □

Stop running □ HCL □ □ k

"HCL behavior at receiving other control telegram from bus"

□ □ HCL □ □ □ HCL □ k □ □ □

Ignore, and keep running

Ignore, but stop running

Update preset value, and keep running

Update preset value, and stop running

Ignore, and keep running □ □ □ □ □ □ HCL □ □ □

Ignore, but stop running □ □ □ □ HCL □ □ □

Update preset value, and keep running □ □ □ □ □ □ □ □ □ HCL □ □ □

Update preset value, and stop running □ □ □ □ □ □ □ HCL □ □ k

□ □ □ □ □ □ □ □ □ □ k **HCL** □ □ □ □ □ □ k □ □ □ k

□ “Depend to sunrise&sunset”□ □ □ □

Sunrise -5h	**Sunset +-0min**
Sunrise -4h	**Sunset +30min**
...	**Sunset +1h**
Sunrise -1h	**...**
Sunrise -30min	**Sunset +4h**
Sunrise +-0min	**Sunset +5h**
...	

- **“Colour temperature preset”**

□ □ □ □ □ □ □ k □ □ □ **2000..7000K**

- **“Brightness preset”**

□ □ □ □ □□□□

KNX/E

"Description for schedule function "

□□ x□ □□ □ 18 □□ 6 □k

"Overwrite the schedule function setting during download "

□□ □ □ □□ □k

□ □□□ □ □ □ □ □□ k

□□□ □□□ □ □ □□ □□ □ □□□

□ □□ □□□□ □□ k

"Object type of schedulefunction "

□□ x□ □ □ □ k □□□

1bit

1byte

2byte

"Object datatype"

□ 1byte □ 2byte □ □ k

1byte □ □□□

1byte unsigned value

1byte[scene control]

HVAC mode

2byte □ □□□

2byte unsigned value

Temperature value

“Output value/ scene No.[...]”

□□ x □ □ □ k □□□ □ □ □ k

“schedule disable function ”

□ □□ □□ ŕ □ □ □□ □□□ ŕ □/ □ □□ k □□□

Disable □□□ ŕ □ □

Disable=0/Enable=1 **0** ŕ □**1** □

Disable=1/Enable=0 **1** ŕ □**0** □

□□ **x** □ □□□ □□ □ □ **x** □ k

“Monday/Tuesday/Wednesday/Thursday/Friday/Saturday/Sunday”

□ □□ □ x k

“Time”

□ □□ x □ □□ k □□□

□**0..23**

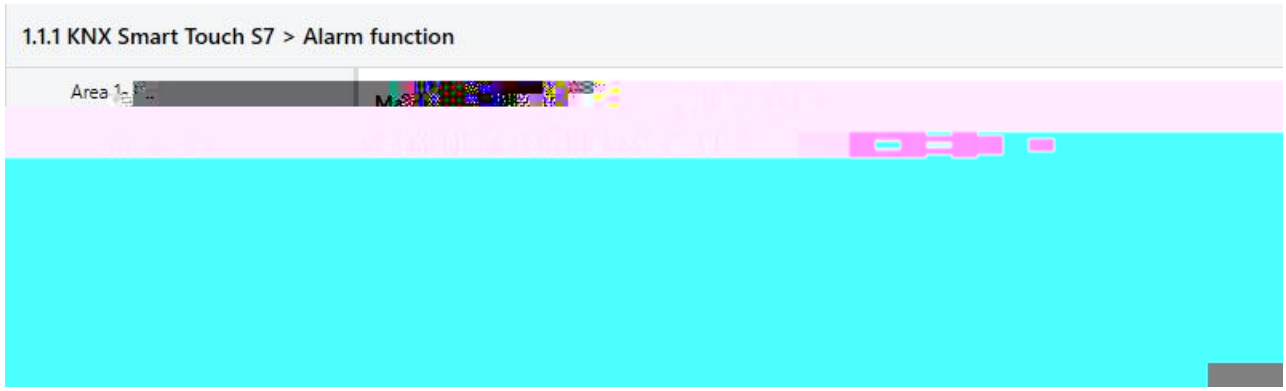
□**0..59**

□□ □ **RTC** □□□ **®20 ppm** k

5.6 □□□□ “Alarm function”

□□□ 5.2.8“Advanced setting” □ “Alarm function”□ □ □□ 5.6 □□

□□ 24 □ k



5.6 “Alarm function” □□□□

“Max. duration of acoustic alarm signal”

□□ □□□ k □ □□ □ □

□ □ □ □□ □ k □□□

Disable

10s

20s

...

25min

30min

Disable□ □ □□ □□

□□□ □□□ □ k

"Alarm signal is repeated automatically after"

□□ □□□ □□□ □□□ □ □ □□□ k □□□

Disable

10s

20s

...

25min

30min

Disable□ □ □□ □□

□□□ □□ □ □ □ □ k

"Number of alarms (max.24)"

□□ □□□ k □□□**1...24**

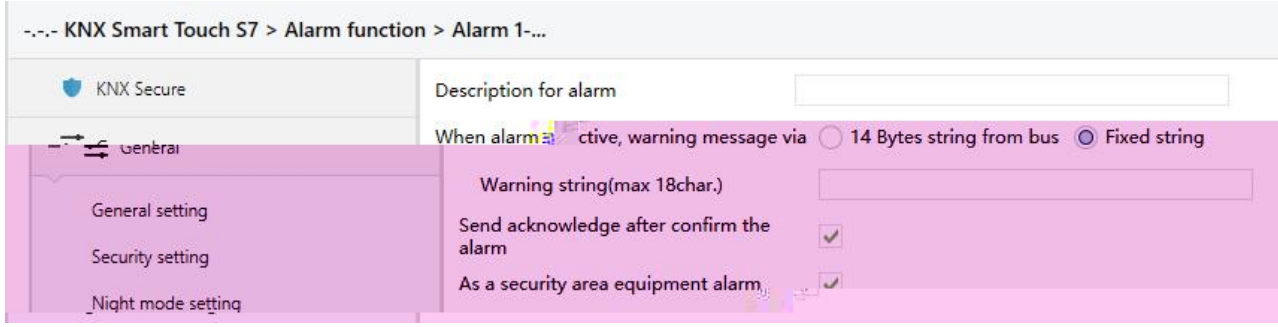
The encode data of telegra

□ □ □□□ □□□□ □□ □ □ ! □ ! □ □ □□ □□□ **UTF-8**□

□ □□□ □□ **ISO8859** k

5.6.1 □□ □□ “Alarm x”(x=1~24)

□□□□”Alarm x”(x=1~24)□ 5.6.1 □□□ □□□ □ □k



5.6.1 “Alarm x”(x=1~24) □□□□

”Description for alarm ”

□□□ x□ □□ □ 18 □□ 6 □k

”When alarm active, warning message via”

□ □ □ □□□ □□ □ □ □ ETS □ □ □ □□

□ 14byte □ k □□□

Fixed string

14 Bytes string from bus

“Warning string(max 18char.)”

□ “Fixed string” □ □k□ □ □ □□□ □□ k

”Send acknowledge after confirm the alarm ”

□□ 1bit □ □□ □ □ □□□ □ □□k

”As a security area equipment alarm ”

□□ □□ □ □ k

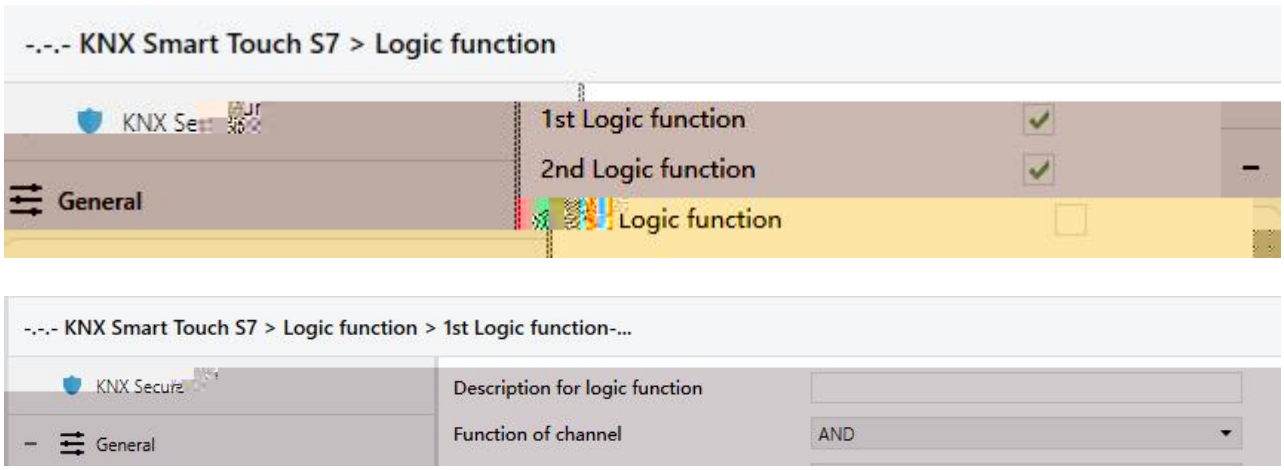
□ □ □ □□□□□ □ □ □□□ k

□ □□ k

5.7 □□□□ “Logic function”

□□□ 5.2.8“Advanced setting” □ “Logic function”□ □ □□ 5.7 □□□

□□□ □□ 8 □□ □ □□ k



5.7 “Logic function” □□□□

“1st/2nd/3rd... Logic function”

□□□□ □□□□□□□ □ □□□ □□ k □ 8 □□ □ k

“Description for logic function”

□□ □□ □□ □ □ k □ 30 □ k

AND

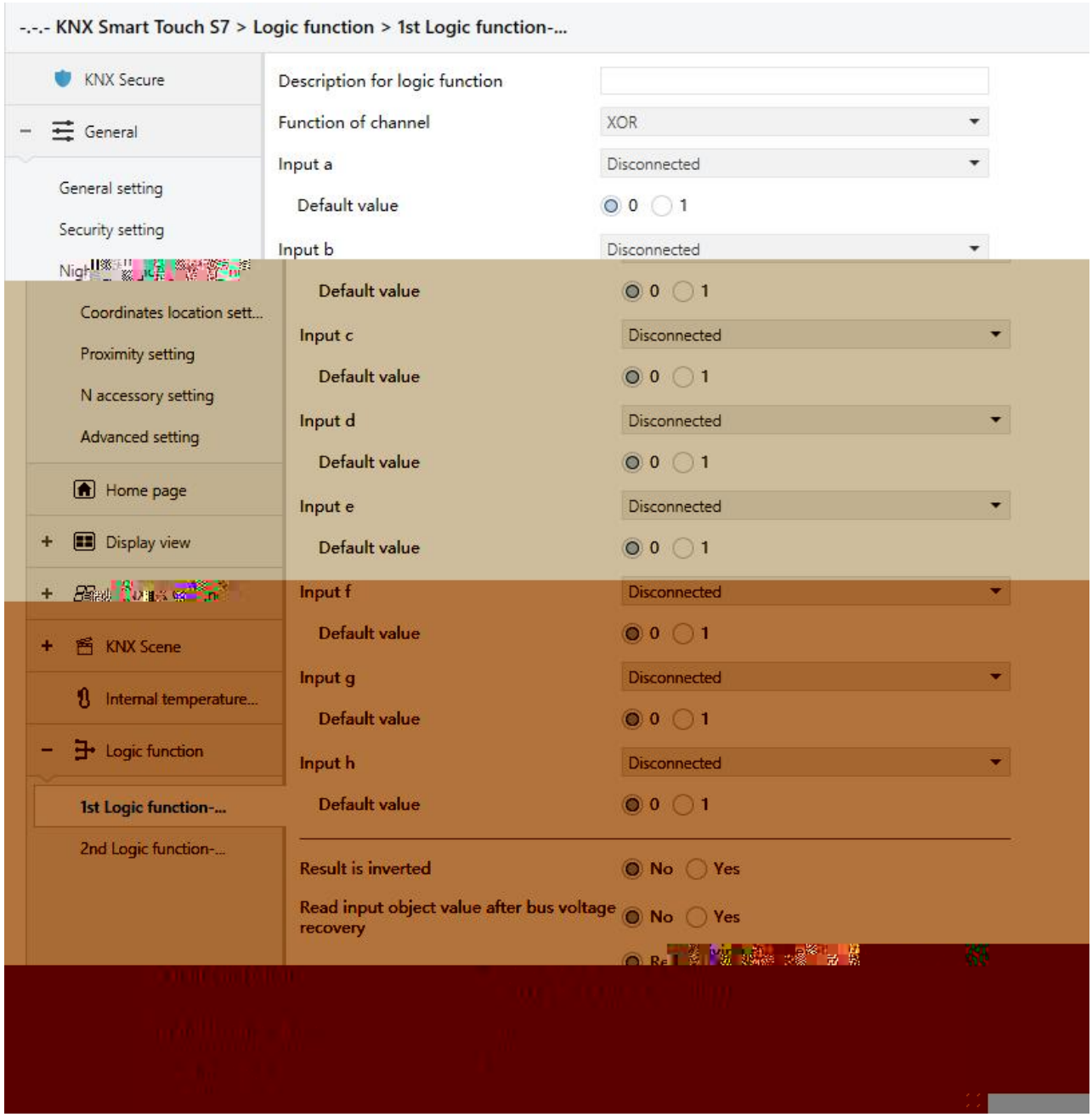
OR

XOR

Gate forwarding

Tc

5.7.1 “AND/OR/XOR” □



5.7.1 “Logic function_AND/OR/XOR” □

"Input a/b/c/d/e/f/g//h"

□ □ □ □ □ input x □ □ □ □ □ □ □ □ k □ □ □

Disconnected

Normal

Inverted

Disconnected □ □ □ □ □ □

Normal □ □ □ □ □ □ □

Inverted □ □ □ □ □ □ □ k □ □ □ k

"Default value"

□ □ □ □ □ input x □ k □ □ □

0

1

"Result is inverted"

□ □ □ □ □ □ □ □ k □ □ □

No

Yes

No □ □ □ □ □

Yes □ □ □ k

"Read input object value after bus voltage recovery"

□ □ □ □ □ □ □ □ □ □ □ □ k □ □ □

No

Yes

"Output send when"

□□ □□□□□ □ k □□□

Receiving a new telegram

Every change of output object

Receiving a new telegram□ □□□□ □□□□ □ □ □

Every change of output object□□□□ □ □ □ k

□□ □□□□□□ □□□□□□ □ k

"Send delay time"

Base: **None**

0.1s

1s

...

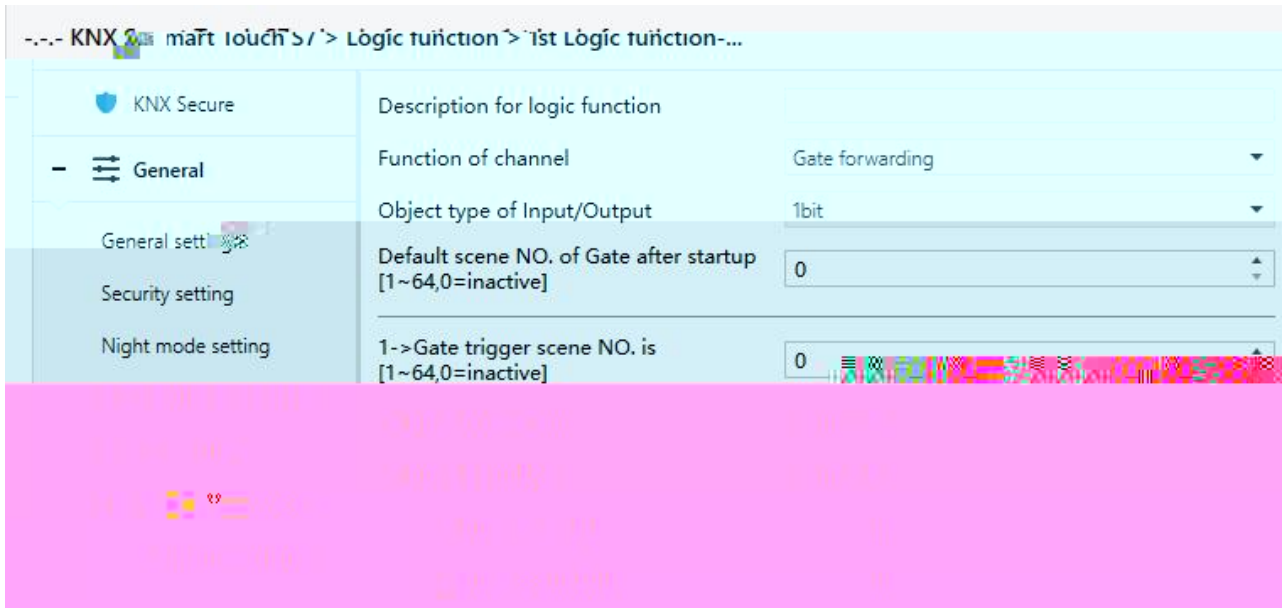
10s

25s

Factor: **1..255**

□□ □□□□□ □□ □ k □Base x Factor□ Base □□ "None"□ k

5.7.2 “Gate forwarding” □



5.7.2 “Logic function_Gate forwarding” □

“Object type of Input/Output”

□ □ □ /□ □ □ k □ □ □

1bit

4bit

1byte

“Default scene NO. of Gate after startup [1..64, 0=inactive]”

□ □ □ □ □ □ □ □ □ □ □ □ □ □ k

□ □ □**1..64□0= □**

□ □ □ □ □ □ □ □ □ □ k

□'Æ

5.7.3 “Threshold comparator” □

5.7.3 “Logic function_Threshold comparator” □

“Threshold value data type”

□ □ □ □ □ k □ □ □

4bit value (DPT3.007)	**4byte unsigned value[0..4294967295]**
1byte unsigned value (DPT5.010)	**Ext. temperature value (DPT 9.001)**
2byte unsigned value (DPT7.001)	**Ext. humidity value (DPT 9.007)**
2byte signed value (DPT8.x)	**Illuminance value (DPT 9.004)**
2byte float value (DPT9.x)	

□□□□□ □□ □ □ k □ **□If Object value=Threshold value□□□ Send value □0□□ □If Object value<=Threshold value□□□ Send value □1□□** □ □ □□□□ **□1□** k

"Output send when"

□□ □□□□□ □ k □□□

Receiving a new telegram

Every change of output object

Receiving a new telegram□ □□ □□□□ □ □ □ □

Every change of output object□□□□ □ □ □ □ k

□□□ □□□□□□□□□□□□ □ k

"Send delay time: Base"

Base:

None

0.1s

1s

...

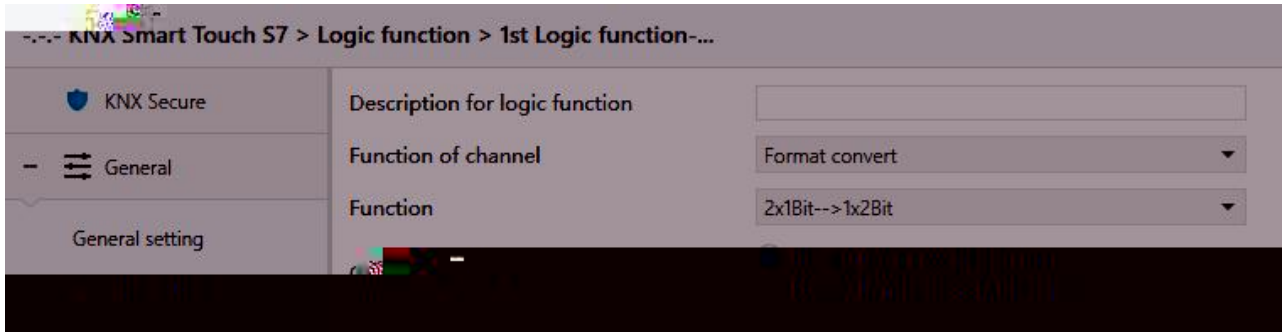
25s

Factor: 1..255

□□ □□□□□ □ □□ □ k □Base x Factor□ Base □□ "None"□

k

5.7.4 “Format convert” □



5.7.4 “Logic function _Format convert” □

"Function"

□ □ □ □ □ □ □ k □ □ □

2x1bit-->1x2bit

8x1bit-->1x1byte

1x1byte-->1x2byte

2x1byte-->1x2byte

2x2byte-->1x4byte

1x1byte-->8x1bit

1x2byte-->2x1byte

1x4byte-->2x2byte

1x3byte-->3x1byte

3x1byte-->1x3byte

"Output send when"

□ □ □ □ □ □ k □ □ □

Receiving a new telegram

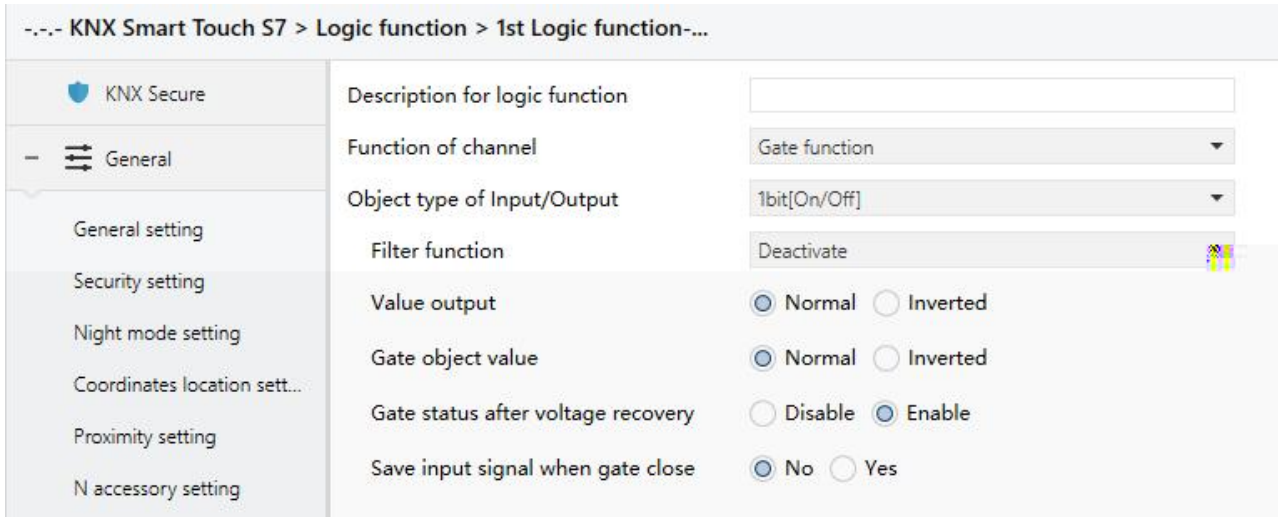
Every change of output object

Receiving a new telegram □ □ □ □ □ □ □ □ □ □

Every change of output object □ □ □ □ □ □ □ □ □ k

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ k

5.7.5 “Gate function” □



5.7.5 “Gate function” □

“Object type of Input/Output”

□ □ □ □ /□ □ □ k □ □ □

1bit[On/Off]

1byte[0...100%]

1byte[0...255]

2byte[Float]

2byte[0...65535]

□ "1bit" □ □ k

• • "Filter function "

□□ □□ ON OFF □ □ □□□ □□ □□ k □□□

Deactivate

On filter out

Off filter out

• • "Value output "

□□ □ □□ □ □ k □□□

Normal

Inverted

"Gate object value"

□□ □□ □□ k □□□

Normal

Inverted

"Gate status after voltage recovery"

□□□ □□□ k □□□

Disable

Enable

" Save input signal when gate close"

□□□ □ k □□□

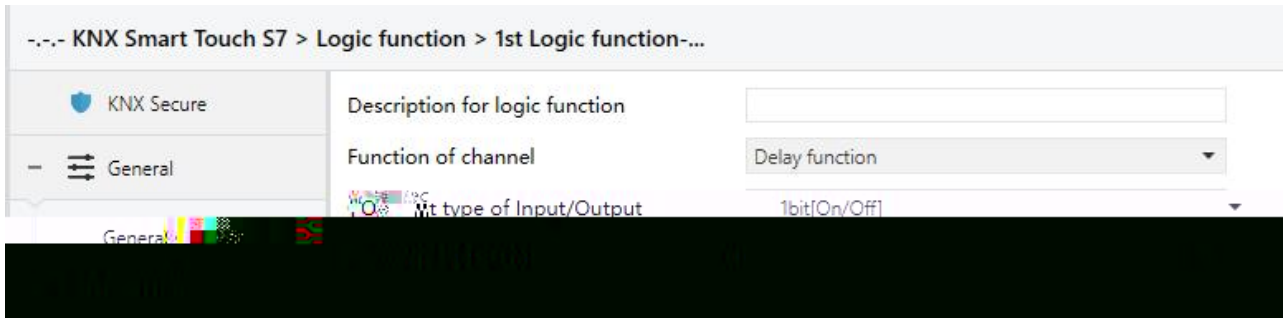
No

Yes

Yes□□ □ □□ □ □ □□□ □ □□ □ k

NO□□ □ □□ □ □ k

5.7.6 “Delay function” □



5.7.6 “Delay function” □

“Object type of Input/Output”

□□□ /□ □ k □□□

1bit[On/Off]

1byte[0..100%]

1byte[0..255]

2byte[Float]

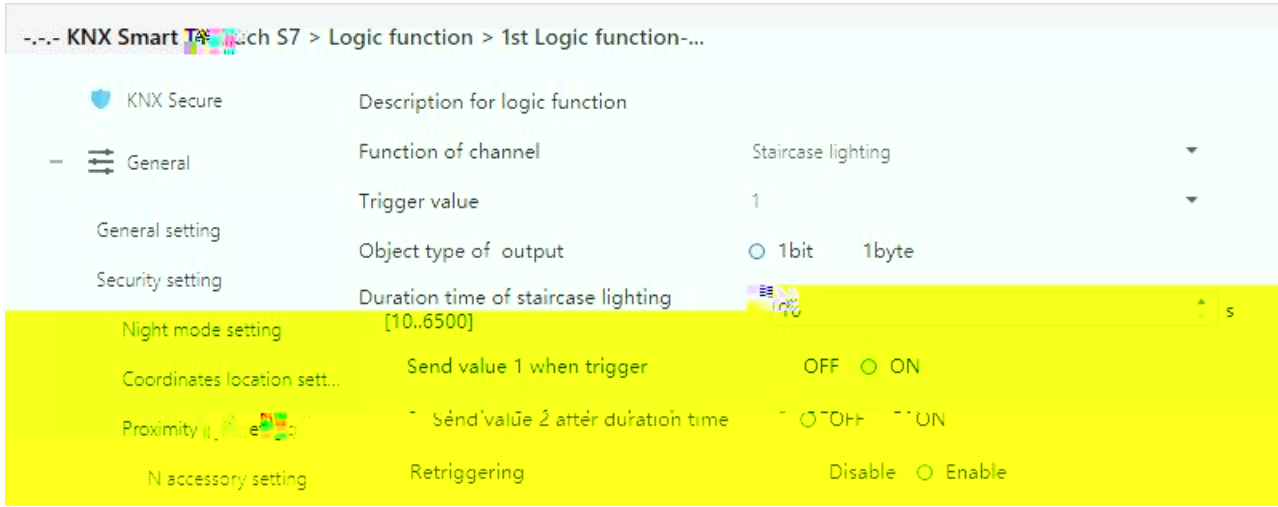
2byte[0..65535]

“Delay time [0..6500]s”

□□□ □ □ □ □ k □□□**0..6500**

□ □□ □ □ □ k

5.7.7 “Staircase lighting”



5.7.7 “Staircase lighting” □

“Trigger value”

□ □ “Trigger value”□ k □ □ □

0

1

0 or 1

“Object type of output”

□ □ □ □ □ k □ □ □

1bit

1byte

“Duration time of staircase lighting[10..6500]s”

□ □ □ □ □ □ k □ □ □**10..6500**

"Send value 1 when trigger"

"Send value 2 after duration time"

□ □□ □ k □ 1□ □ 2 k□□ □ □ □ □ k

1bit □ □□□

OFF

ON

1byte □ □□□ **0..255**

"Retriggering"

□□ □□ □ □ □ □ k □□□

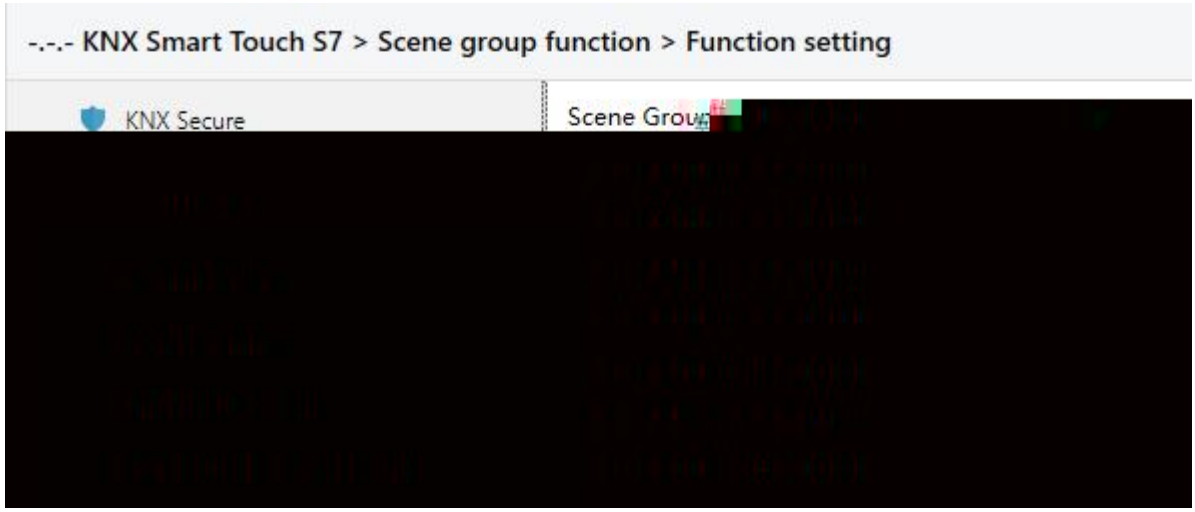
Disable

Enable

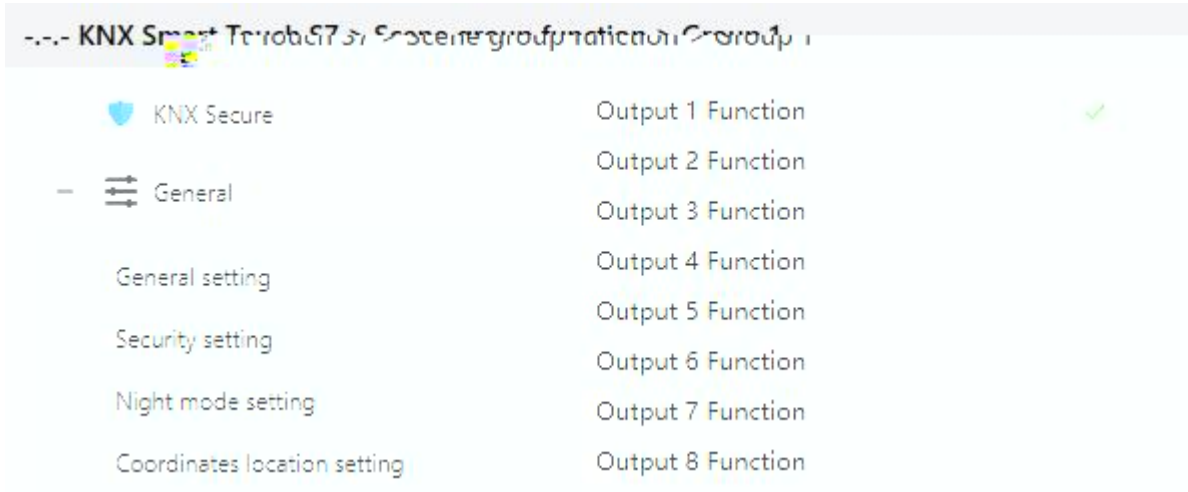
5.8 □□□□ "Scene group function"

□□□ 5.2.8"Advanced setting" □ "Scene group function"□ □ □□□ □

□ □□ 8□ □ □□□ □ 8 □ k □



5.8(1) "Scene Group function" □□□□



5.8(2) "Group X" □□□□

5.8(3) “Output Y function” □ □ □ □

“Scene Group x Function,(X=1-8)”

□ □ □ □ x □ □ □ □ 8 □ k

“Output y Function,(X=1-8)”

□ □ □ □ x □ □ y□ □ □ □ 8 □ □ k

□ 8 □ □ □ □ □ □ 8 □ □ □ □ □ □ □ □ □ □ □ □

□ □

“Description for Output y function,(y=1-8)”

□ □ x □ □ y □ □ □ k □ 30 □ k

“Object type of Output 1 y,y=(1-8)”

□ x □ □ y □ □ k □ □ □

1bit

1byte

2byte

RGB

RGBW

“Object datatype”

□ 1byte □ 2byte □ □ k

1byte □ □ □ □

1byte unsigned value

HVAC mode

2byte □ □ □ □

2byte unsigned value

Temperature value

”z->Output 1 trigger scene NO. is [1~64,0=inactive].(z=1-8)”

□ x □ □ y □ □ □ k □ 8 □ k □ □ □**0..64**□

0= □ k

“Object value of Output y”

□ □ □ □ □ □ □ □ y □ □ k

□ 1bit □ □ □ □**0..1**

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

□ 1byte-HVAC mode □ □ □ □

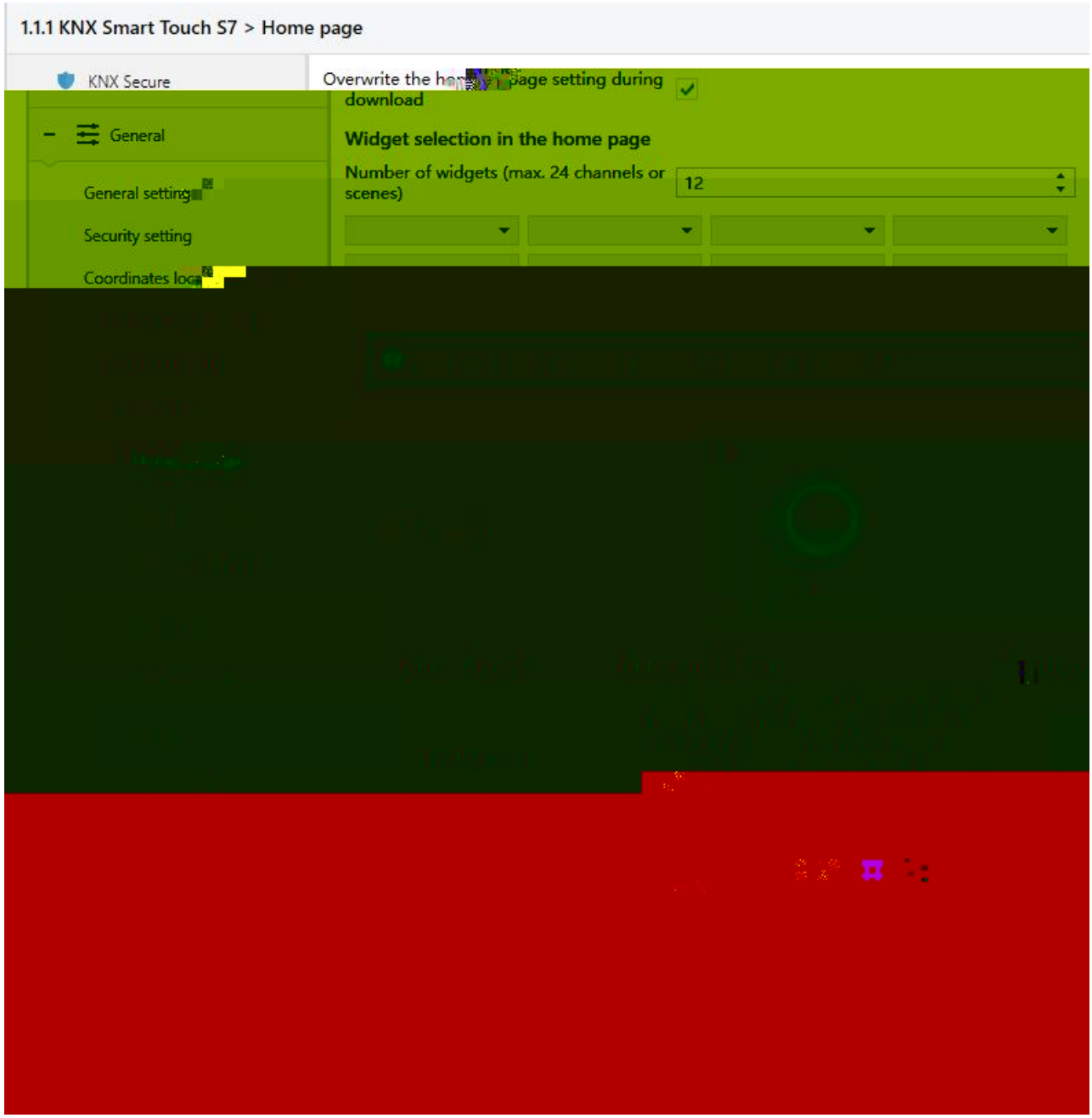
Comfort mode □ □

Standby mode

Economy mode □ □

Frost/heat protection

5.9 □□ □□ “Home page”



5.9 ”Home page” □□□□

"Overwrite the home page setting during download"

□□ □ □ □ □□□□ k

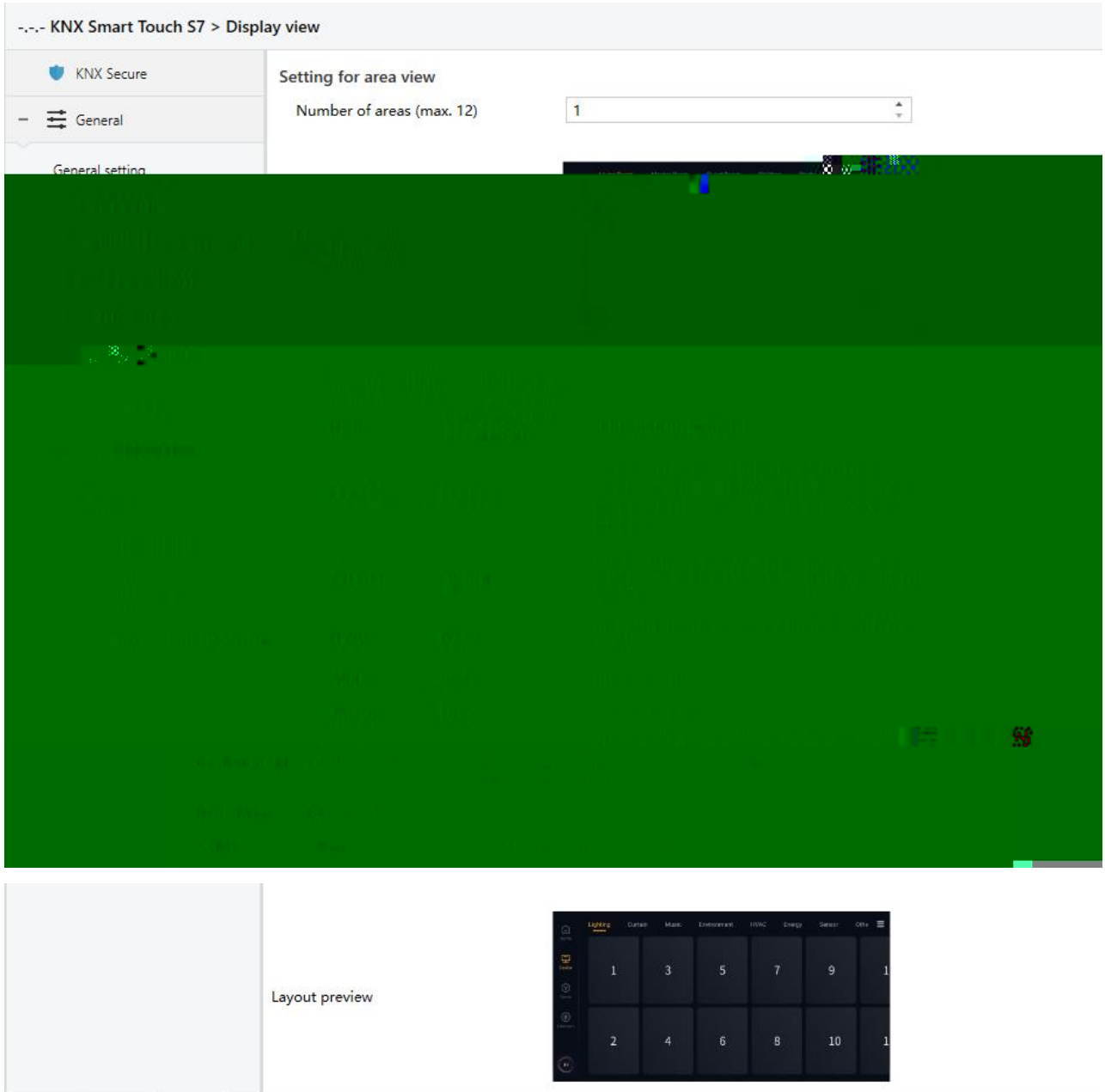
Widget selection in the home page □ □ □□

"Number of widgets (max.24 channels or scenes)"

□□□□ □ □□□ k □□□**1...24**

□ □ Channel 1...Channel 120/Scene 1-Scene 30

5.10 □□ □□ “Display view”



5.10 “Display view” □□□□

Setting for area view □ □□

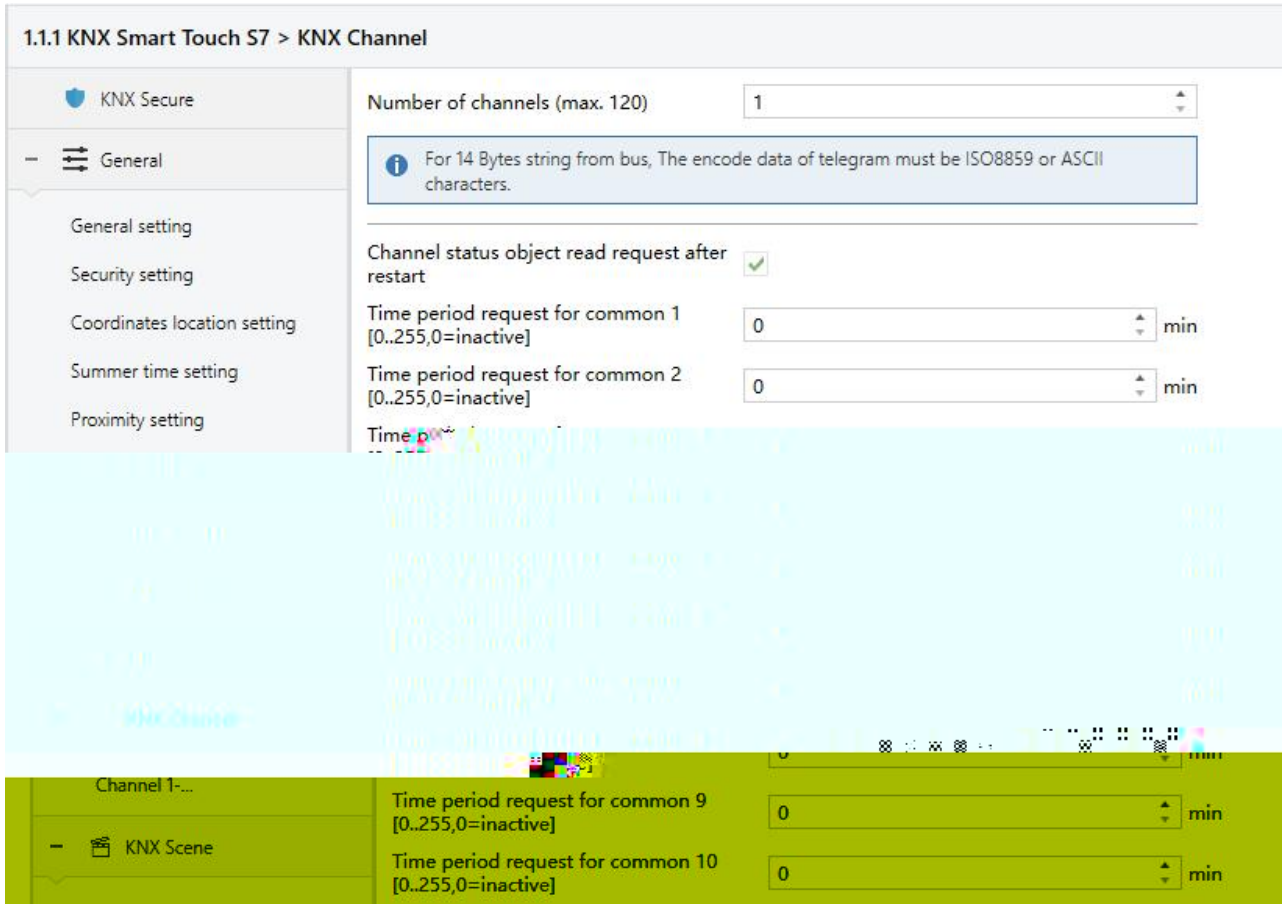
"Number of areas (max. 12)"

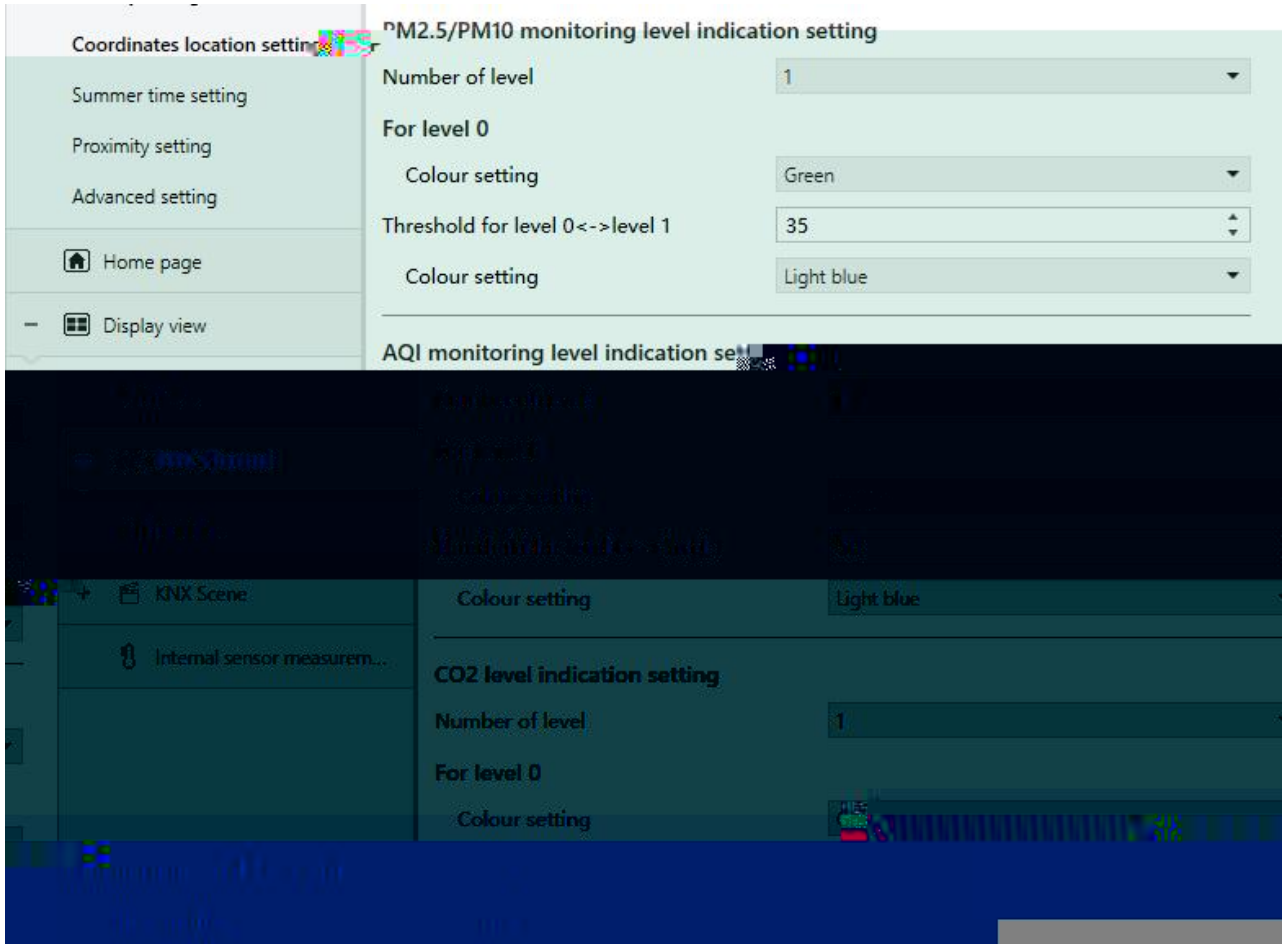
□□ □ k □□□1....12

Category description setting for device view □ □ □□ □□□

	□ □
Lighting	□ □ !□ □ !□ □ □ □□□!□ +□ □ □□□□□!RGBRGBW! RGBCW□
Curtain	□ □ ! ! □ ! ! □ □□ □ □
HVAC	□□ □□ !□ □ □!□ □ □!□ □ + □!□ □ +□□□!□ □ + +□□□!□□□ □□!□□□ □□! □□□□ □ □□□! □□□□ □ □□□□
Audio	□ □□ □ □ □ □!□ □ □ □!□ □ □ □!□ □ □ + □!□ □ □ □+ □
Energy	□□□□□□ □ □+□ □!□□□ □ □+□ +□ □!□□□ □ □+□ +□ +□ □□
Environment	□ □ □□ □ ! □ !PM2.5 VOC !PM10 ! □ !□ !□ !□ □
I/O Sensor	□I/O □
Other	Press/Release switch□ / □!

5.11 □□ □□ “KNX Channel”





5.11 “KNX Channel” □ □ □ □

"Number of channels (max.120)"

□ □ □ □ □ □ □ □ k □ □ □ **1....120**

"Channel status object read request after restart "

□ □ □ □ □ □ □ □ k

"Time period request for common X [0..255,0=inactive] ,(X=1-10)"

□ □ □ □ □ □ □ □ k □ □ □ **0...255min**

PM2.5/PM10/AQI/CO2/ monitoring level indication setting PM2.5/PM10/AQI/CO2 □ □ □

□

"Number of level "

□ □ □ □ k □ □ □**1...5**

"Colour setting"

□ □ □ □ UI □ □ □ □ k □ □ □

Green

Light blue

Yellow

Orange

Red

Dark red

"Threshold for level 0<->level 1"

"Threshold for level 1<->level 2"

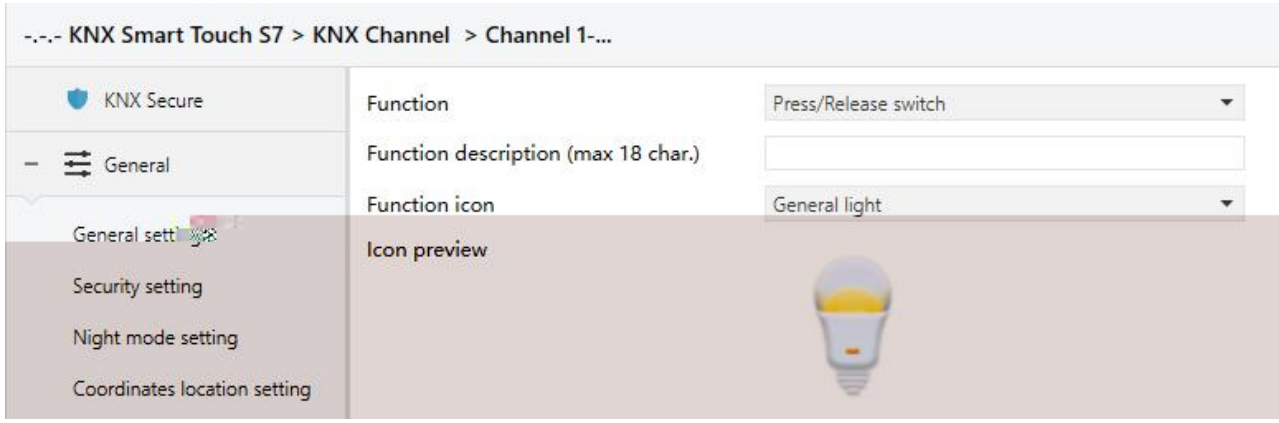
"Threshold for level 2<->level 3"

"Threshold for level 3<->level 4"

"Threshold for level 4<->level 5"

□ □ □ □ □ □ □ k □ □ □**1...500/1...999**

5.11.1 □□ □□ “Channel X”(X=1~120)



5.11.1 “Channel X” □□□□

“Function”

□□□ □k □□□

Press/Release switch /

Switch

Relative dimming □ □ □ □ □

"Function description (max 18 char.)"

□□□ □ □ □□ □ 18 □ k

"Function icon"

□□□ □ □□ k □□□

General light

Ceiling light

...

AQI

□ □□□ □□ □ □ □□ □ k

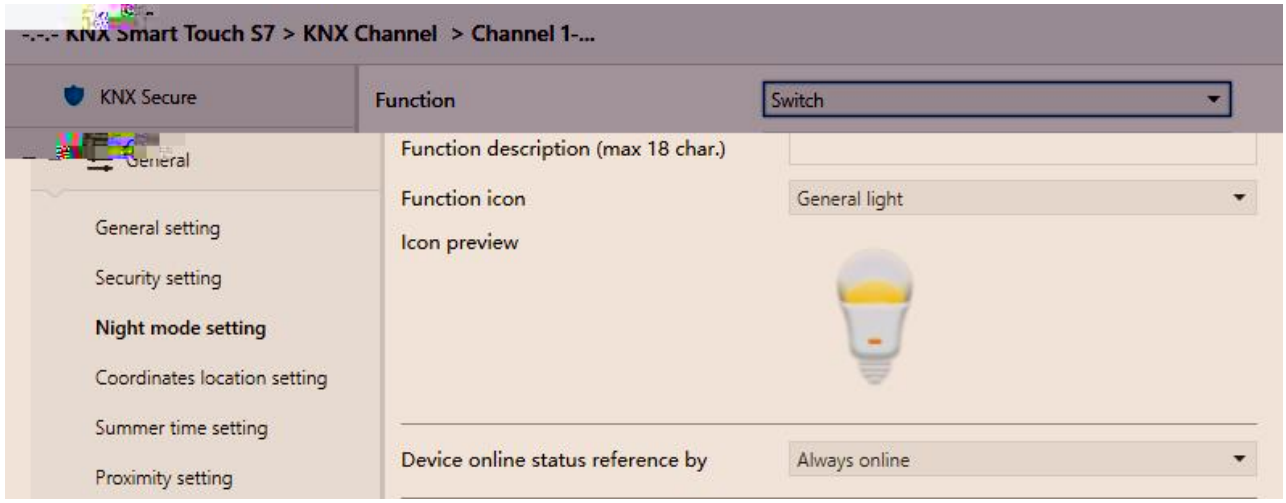
□□ □ □□□□□□ k

5.11.2 □

□ □ □ □ □ □ ! □ ! □ ! ! □ □ ! □ □ (RGB ! RGBW ! RGBCW) ! □ □

! □ □ ! □ □ ! □ □ □ ! □ □ □ □ □ k

5.11.2.1. □



5.11.2(1) □ □ □ □ □

"Device online status reference by"

□ □ □ KNX □ □ □ □ □ □ k □ □ □

Individual

Common 1

...

Common 10

Always online

□ □Press/Release switch □ □ □ Always online□

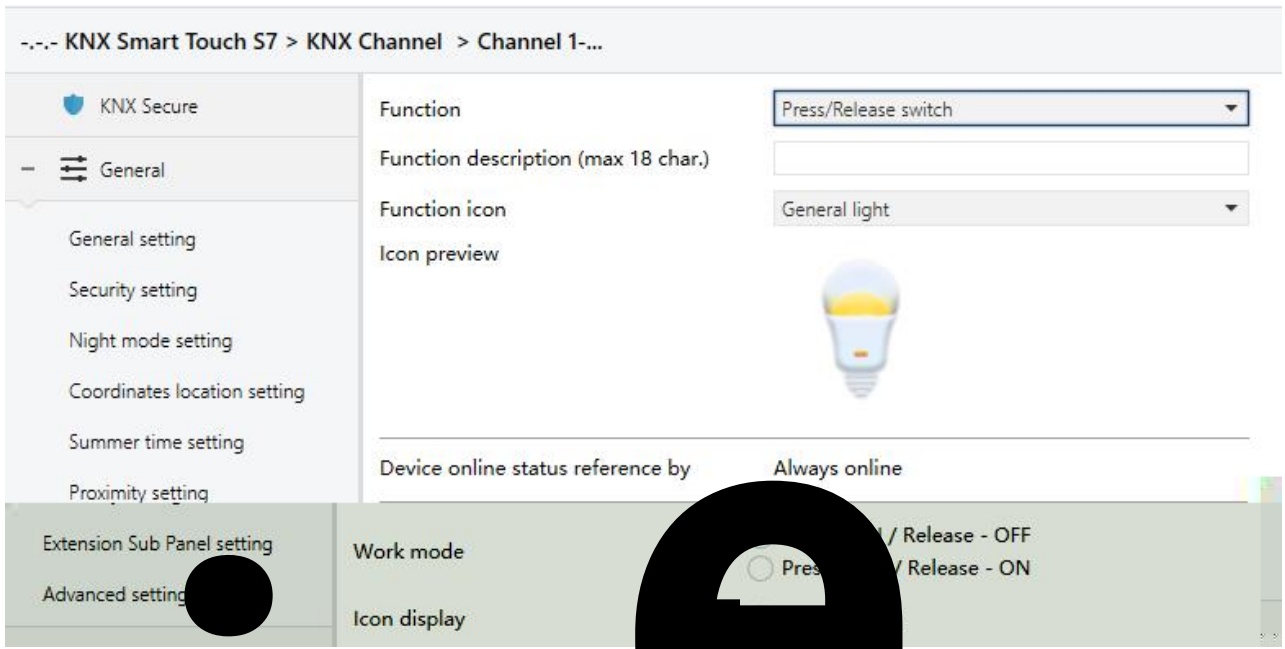
“ Period for request device online status [1..255] min”

□ ”Individual” □ □ k □ □□ □ □□ □ □ □ k

□ □ □ **0...255**

□ □ □ **ed**

5.11.2.2. / □



□ □ □ □

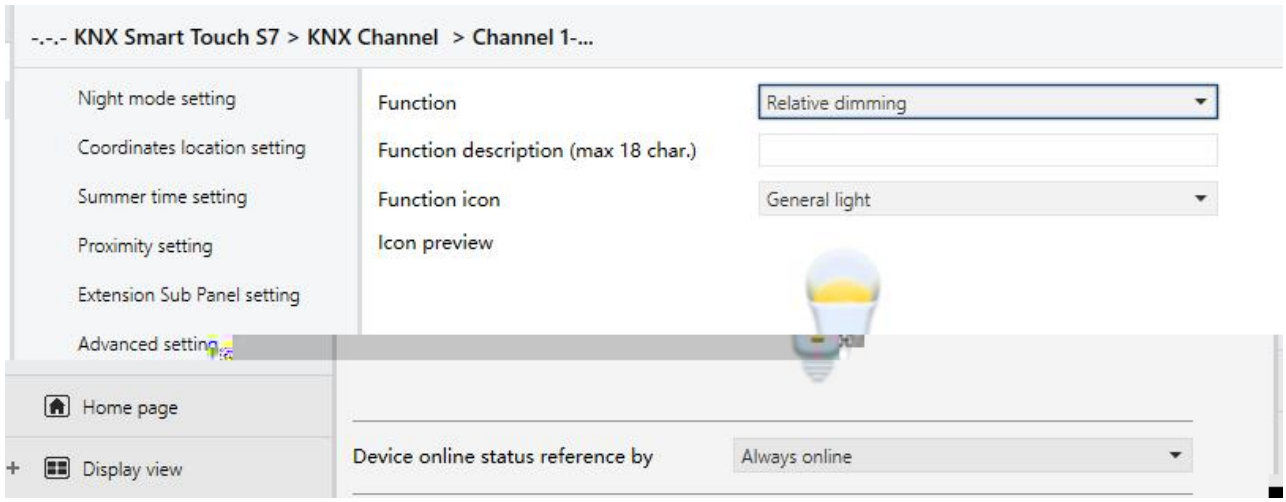
"Icon display"

□ □ □ □ □ k □ □ □

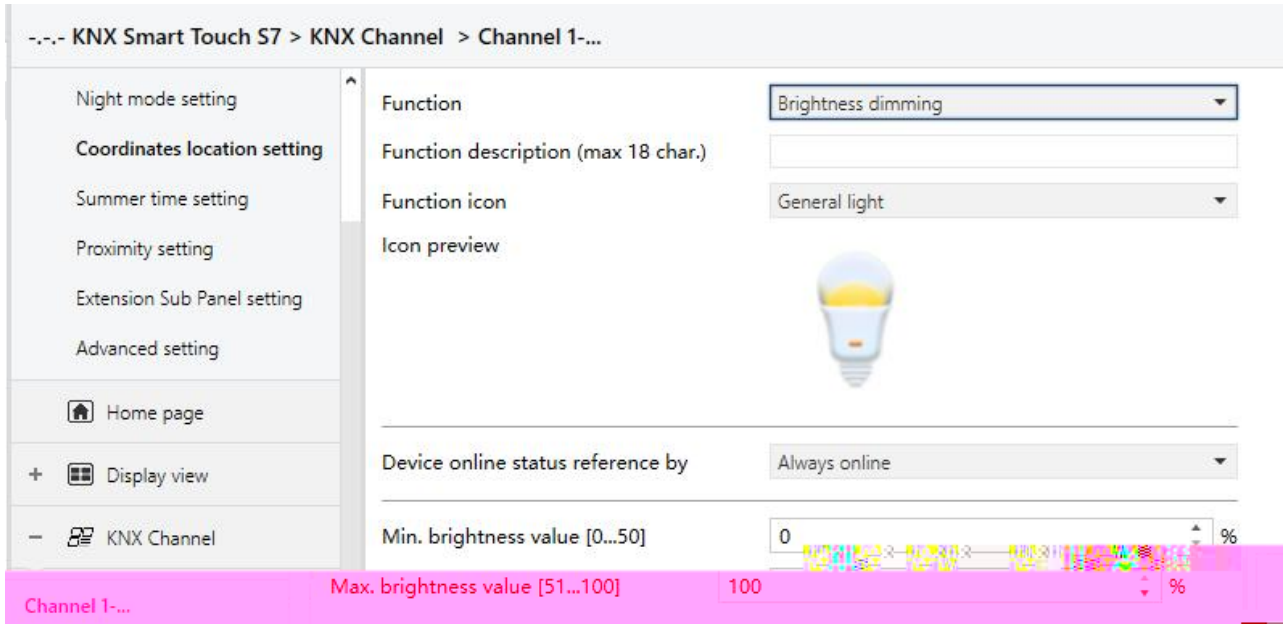
OFF

ON

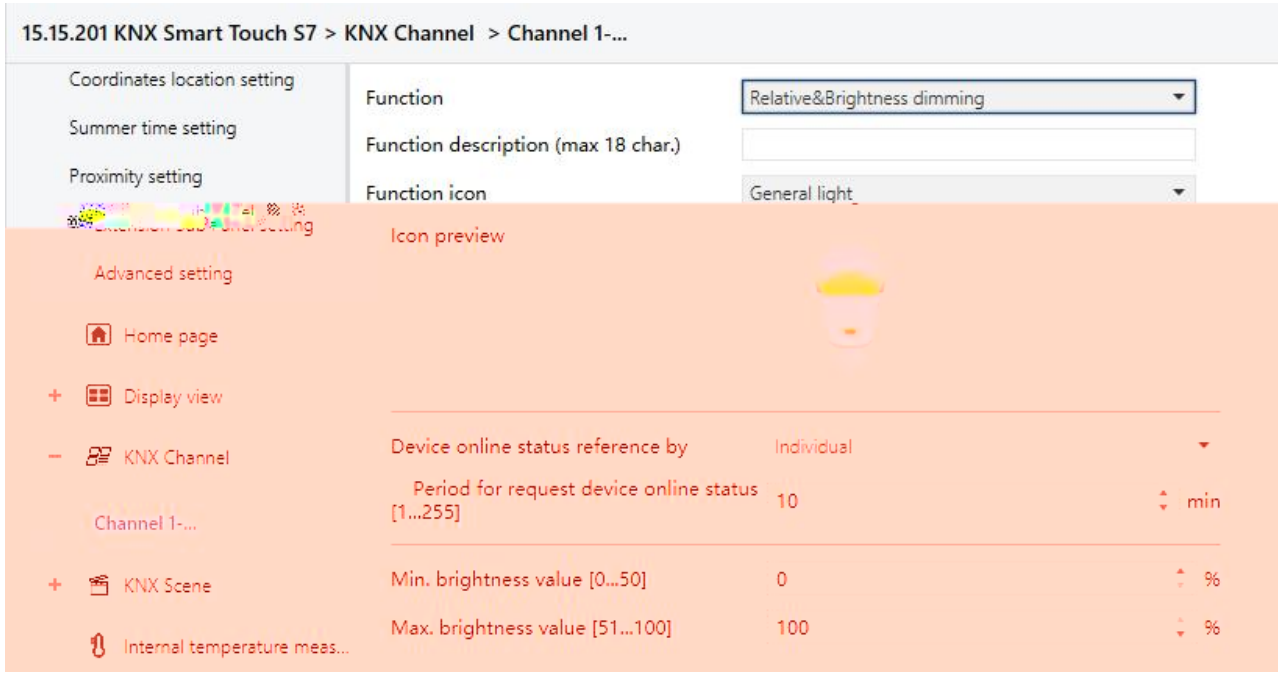
5.11.2.3.□ □ ! □ □ ! □ & □ □



Relative dimming

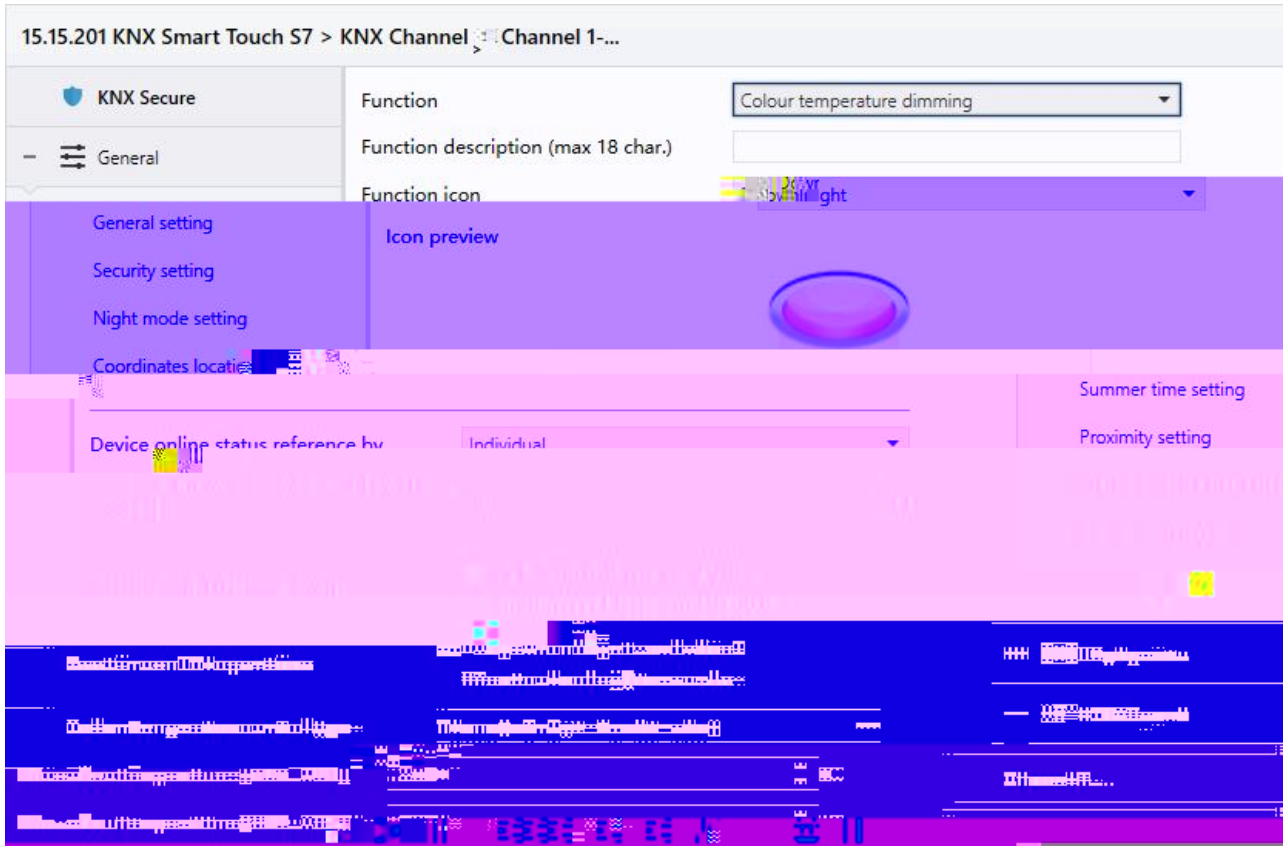


Brightness dimming



Relative&Brightness dimming

5.11.2.4. □□□□ □



Color temperature dimming

5.11.2(4) □□□□ □ □□□□

"Reaction on 'OFF' operation"

□□ □ □□ 0□□ 0 k □□□

Only switch object send value 0

Brightness objects send value 0

"Reaction on 'ON' operation"

□□ □ □ □ 1□□ □□□□□ k □□□

Only switch object send value 1

Preset colour brightness value

□ **"Preset colour brightness value"** □ □ k

"Brightness value"

□ □ □ □ □ k □ □ □ **0..100%**

"Colour temperature control type"

□ □ □ □ □ k □ □ □

Normal(with 2byte absolute value) □ **(** **2** □ □ **)**

Normal(with 1byte percentage value) □ **(** **1** □ □ **)**

Directly(with warm/cool white algorithm) □ □ □ **/** □ □ □

Normal□ 1byte 2byte □ □ □

Directly(with warm/cool white algorithm)□ □ □ □ □ "+□ □ " / □ □

□ □ □ □ 2 1byte □ □ □ □ □ □ □ □ □ k

"Status feedback object"

□ "Directly(with warm/cool white algorithm)" □ □ k□ □ □ □ □ k

□ □ □

Brightness+2 byte Colour Temperature

Warm/cool white brightness

Brightness+2 byte Colour Temperature□ +□ □ □ □ □□ □ □ □ □ □ □ □

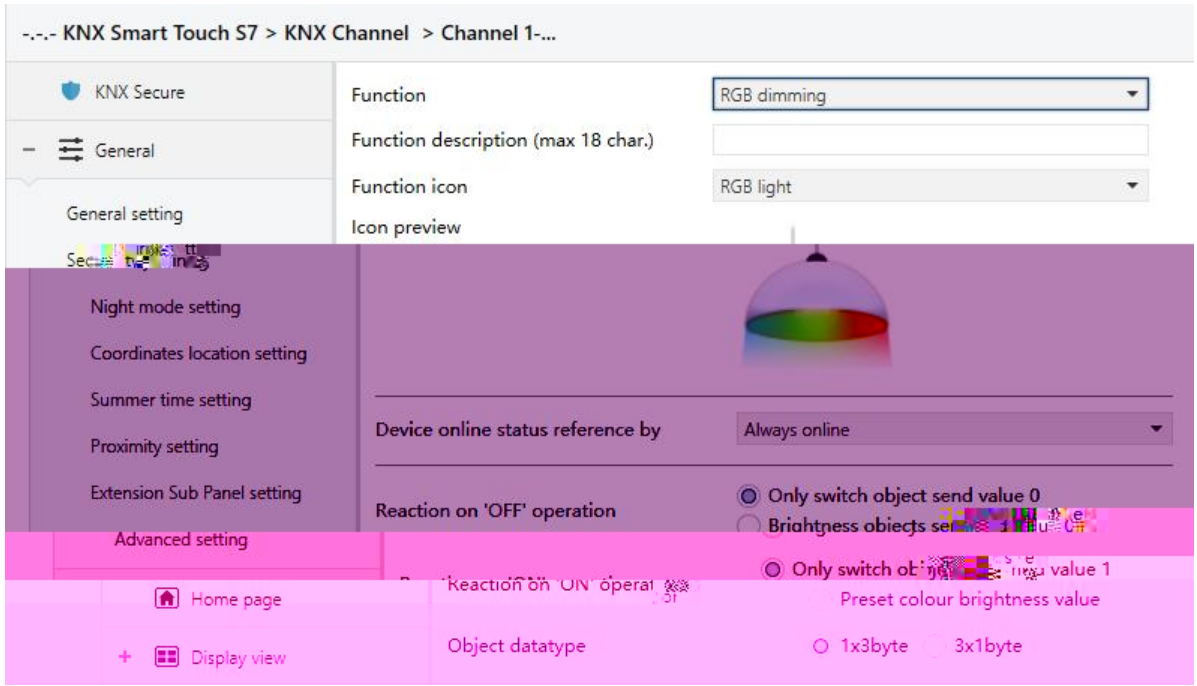
Warm/cool white brightness□ □ □ □ □ □ □ □ □ k

"Min. colour temperature [2000..7000]K"

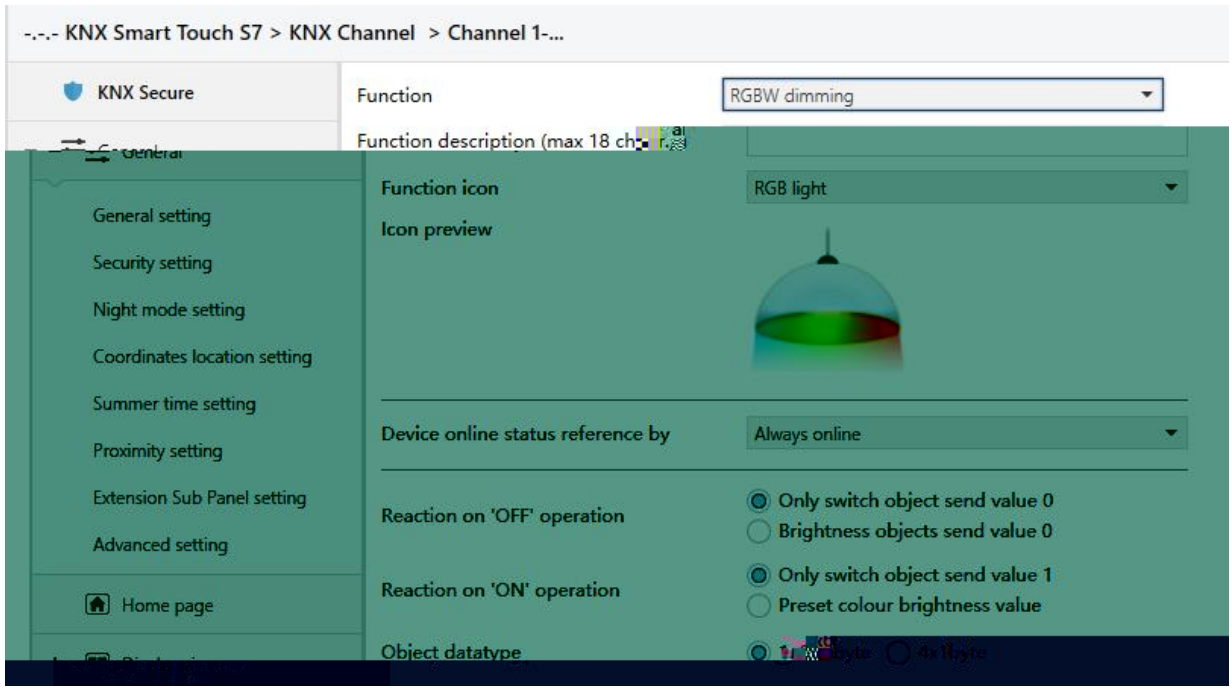
"Max. colour temperature [2000..7000]K"

□ □ □ □ □ □ □ k □ □ □ **2000..7000**

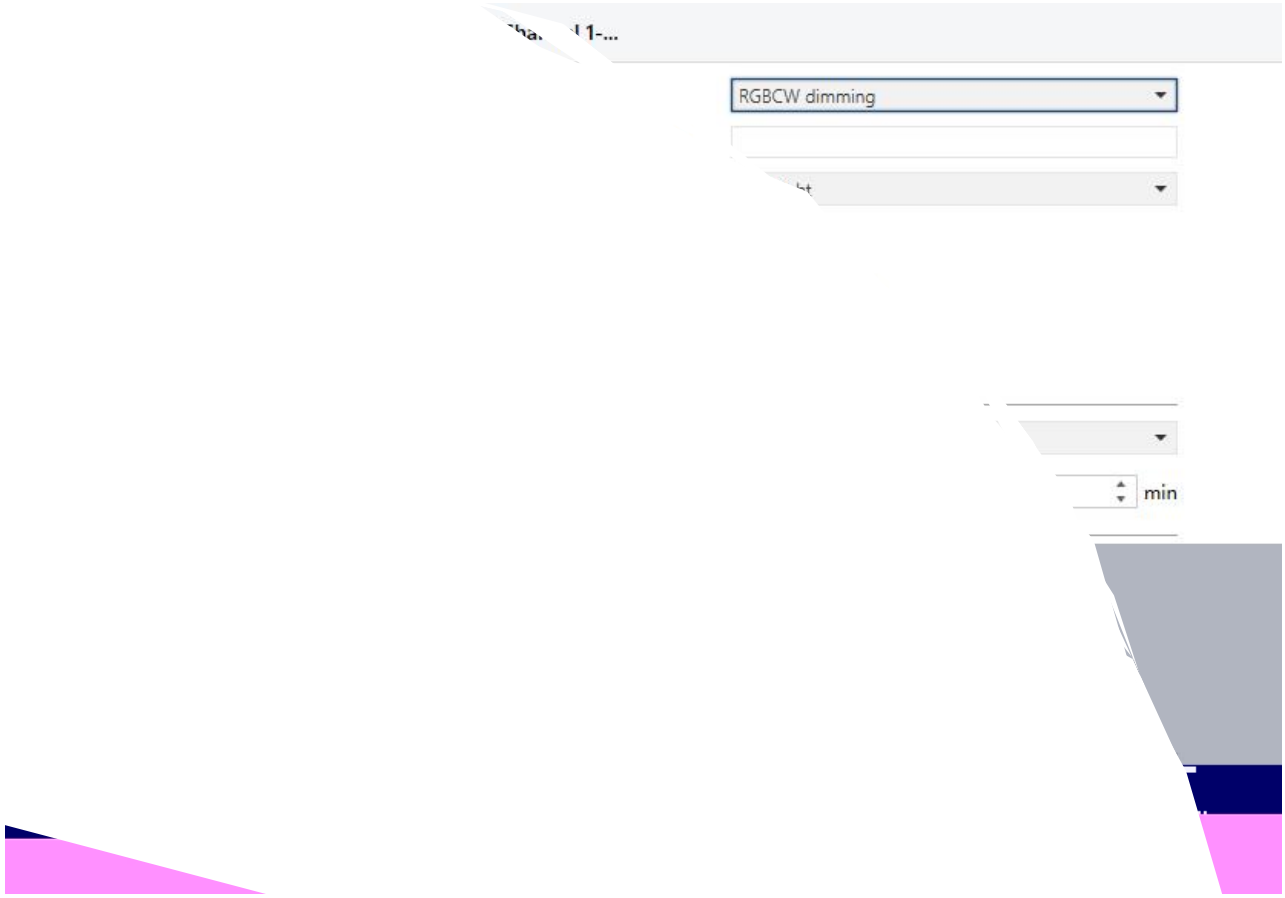
5.11.2.5.RGB/RGBW/RGBCW



RGB dimming



RGBW dimming



5.11.2(5) RGB/RGBW/RGBCW

Æ9t –6l EGXSR R"

?gÆ9t_ÆSs+8Ñ#_3 %ø8Ñ#_ □ □ □ ∀Ú

Only switch object send value ae

□ **"Preset colour brightness value"** □ □

- **"RGB value"**

  □ □ □,□ □ □ □ k □ □ □000000 ....#FFFFFF

- **"White brightness value"**

  □ □ □,□ □ □ □ k □ □ □0..255

- **"Brightness value"**

  □ □ □ □ □ k □ □ □0..255

"Object datatype"/"RGB object datatype"

□ □ □ **1x3byte/3x1byte/1x6byte/4x1byte**

□ □ RGB/RGBCW □ □

1x3byte □ □ **3byte** □ □ □ **RGB** □

3x1byte □ □ **1byte** □ □ □ **RGB** □

□ □ RGBW □ □

1x6byte □ □ **6byte** □ □ □ **RGBW** □

4x1byte □ □ **1byte** □ □ □ **RGBW** □

□□ **“RGBCW dimming”** □□□ □□□□□ k

“Colour temperature control type”

□□□□ □ k □□□

Normal(with 2byte absolute value) □ (**2** □□)

Normal(with 1byte percentage value) □ (**1** □□)

Directly(with warm/cool white algorithm) □ □ □ / □□ □

Normal□ 1byte 2byte □□ □

Directly(with warm/cool white algorithm)□□ □□ □ “ +□□ ” / □□

□□ □ □ 2 1byte □□ □ □□ □□□ □□k

“Status feedback object”

□ “Directly(with warm/cool white algorithm)” □ □k□□□ □ □ k

□□□

Brightness+2 byte Colour Temperature

Warm/cool white brightness

Brightness+2 byte Colour Temperature□ +□□□ □□□ □ □ □ □ □ □□

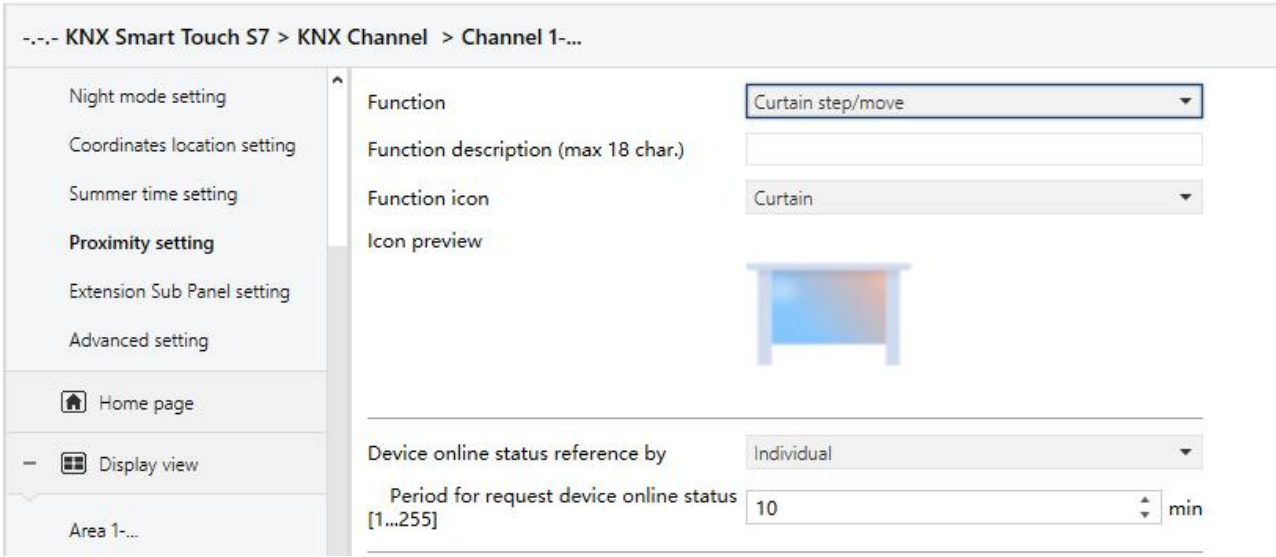
Warm/cool white brightness□ □ □□□ □ □ □□ □k

“Min. colour temperature [2000..7000]K”

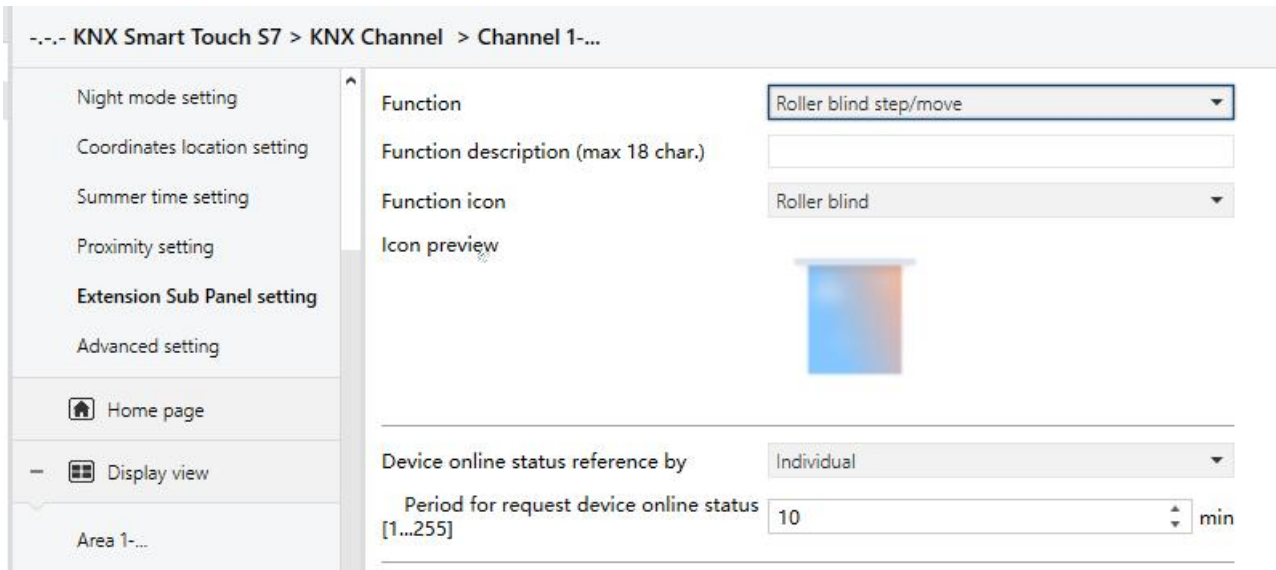
“Max. colour temperature [2000..7000]K”

□ □□□□ □□ □□k □□□**2000..7000**

5.11.2.6. □ □

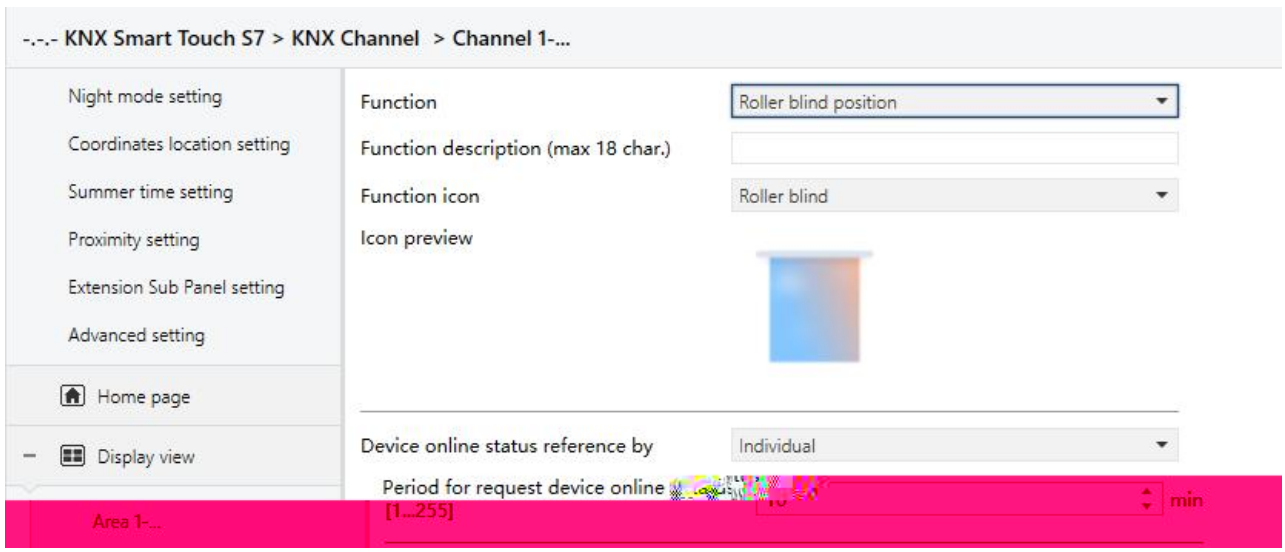


Curtain step/move

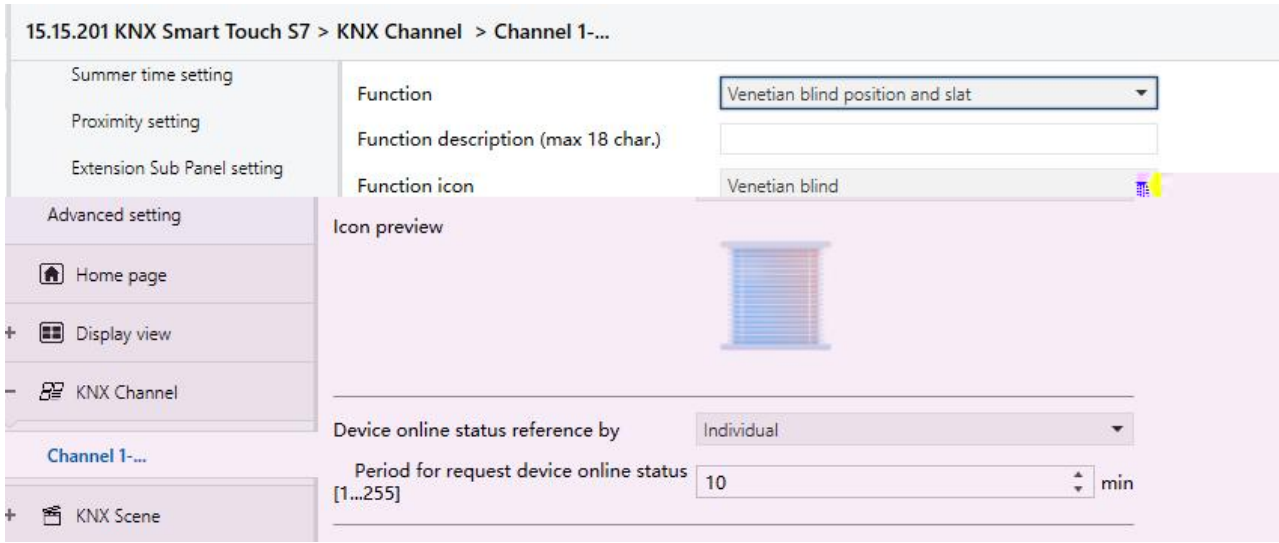


Roller blind step/move

Curtain position



Roller blind position



Venetian blind position and slat

5.11.2(6) □ □ □ □ □ □

"Device online status reference by"

□ □ □ KNX □ □ □ □ □ □ k □ □ □

Individual

Common 1

...

Common 10

Always online

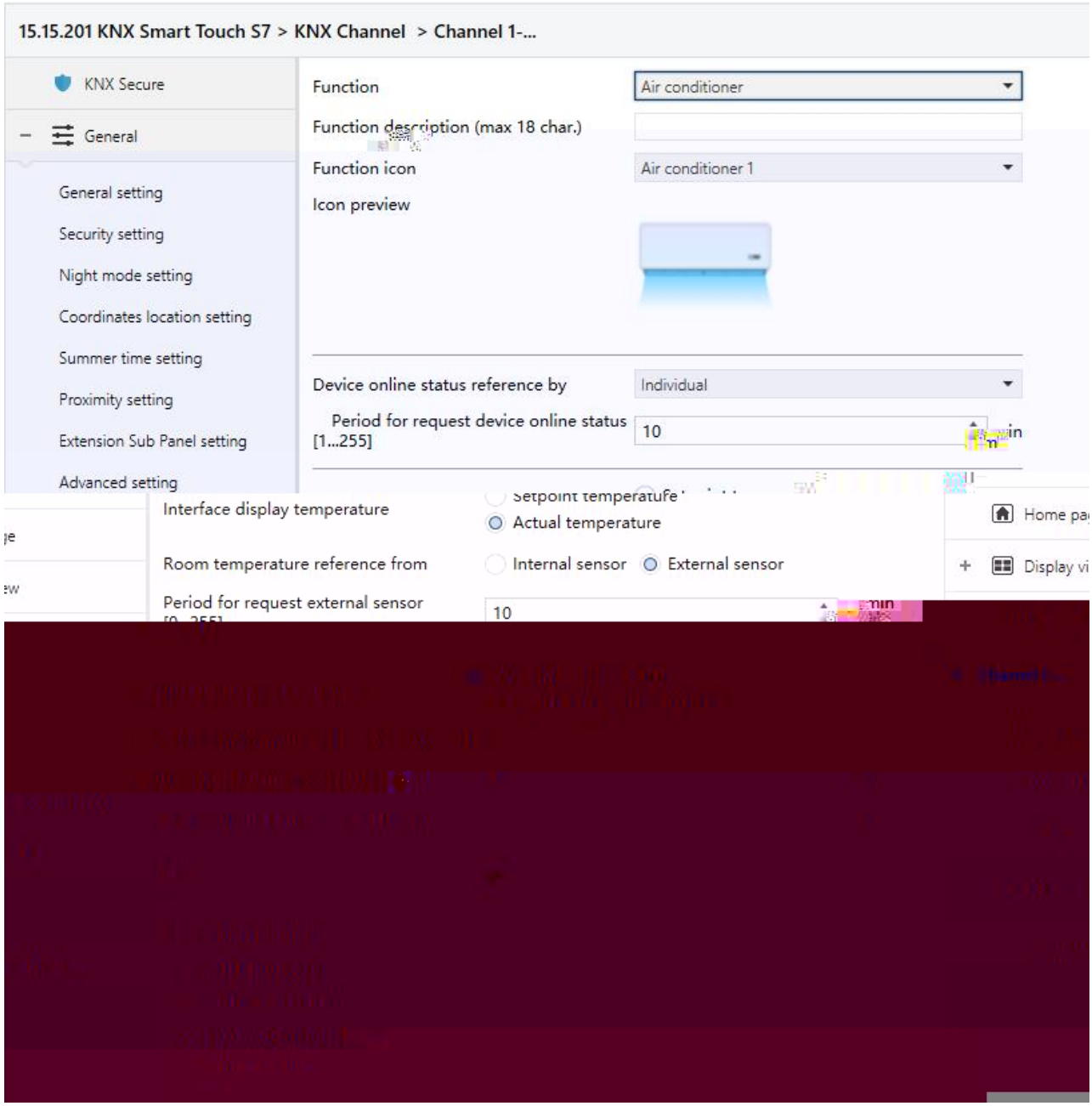
□ □ **Press/Release switch** □ □ □ **Always online** □

□ **"Individual"** □ □ k

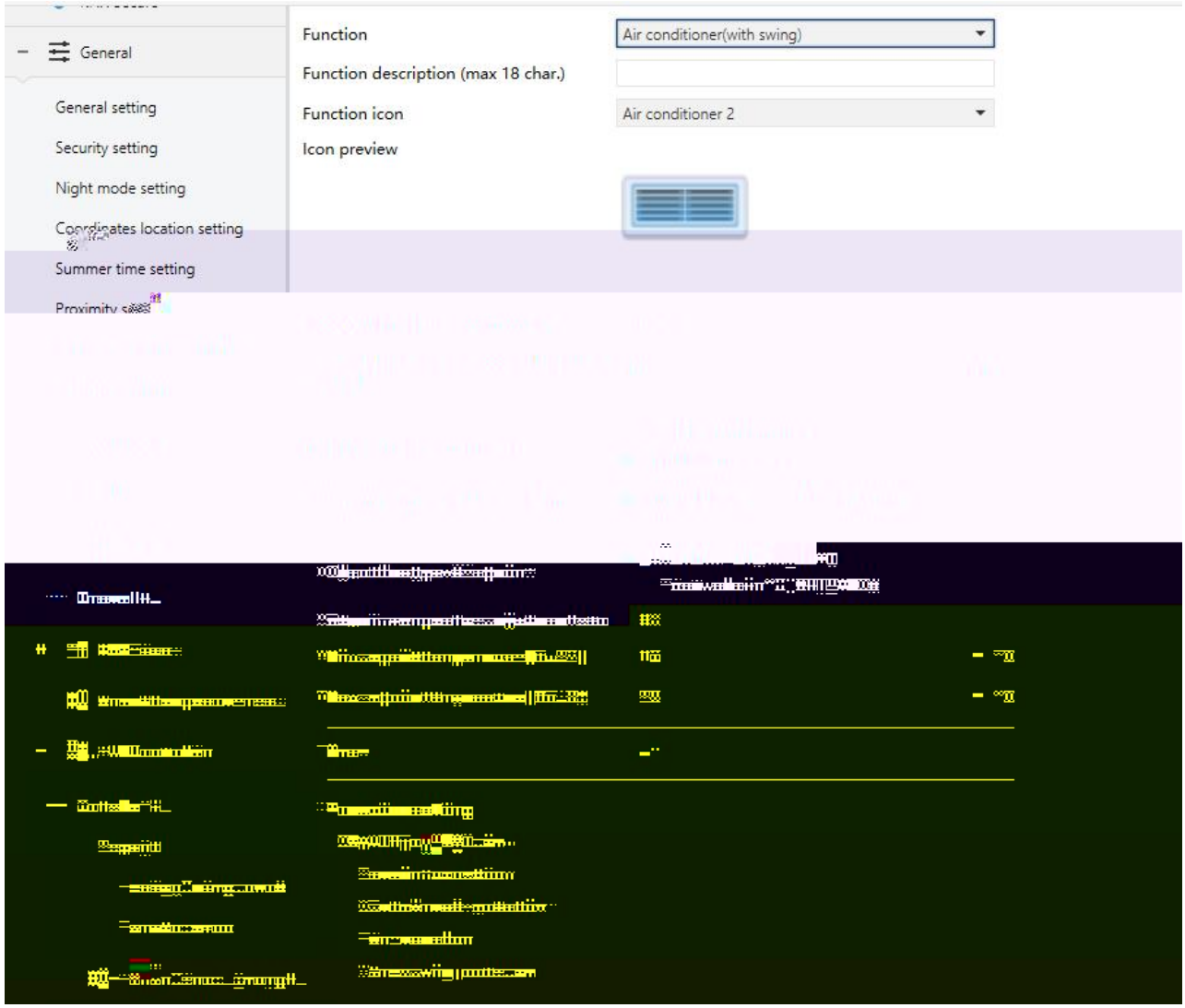
" Period for request device online status [1..255]min"

□ □ □ □ □ □ □ □ k □ □ □ **0...255**

5.11.2.7. □ □ □



Air conditioner(External sensor)



Air conditioner(with swing)

5.11.2(7) □ □ □ □ □ □

Setpoint temperature

Actual temperature

“Room temperature reference from”

Internal sensor

External sensor

“Period for

1K

□ “Value in °C (DPT_5.010)” 1K ᵏ

”Min/Max. setpoint temperature [16..32]-C”

□ □ □ □ □ □ □□□ ᵏ□□□ □ □ □ □ □ □ □ □ ᵏ □□□

16°C

17°C

...

32°C

□ □ □ □ □ □ □ □ □ **ETS** □ □□□ ᵏ

“Timer”

□□ □ □□ □ □□ □ □ □ □□□ □ ᵏ

□ □ □ □ ᵏ

Protection setting □□

”ON/OFF protection”

”Setpoint protection”

”Mode protection”

”Fan protection”

” Vanes swing protection”

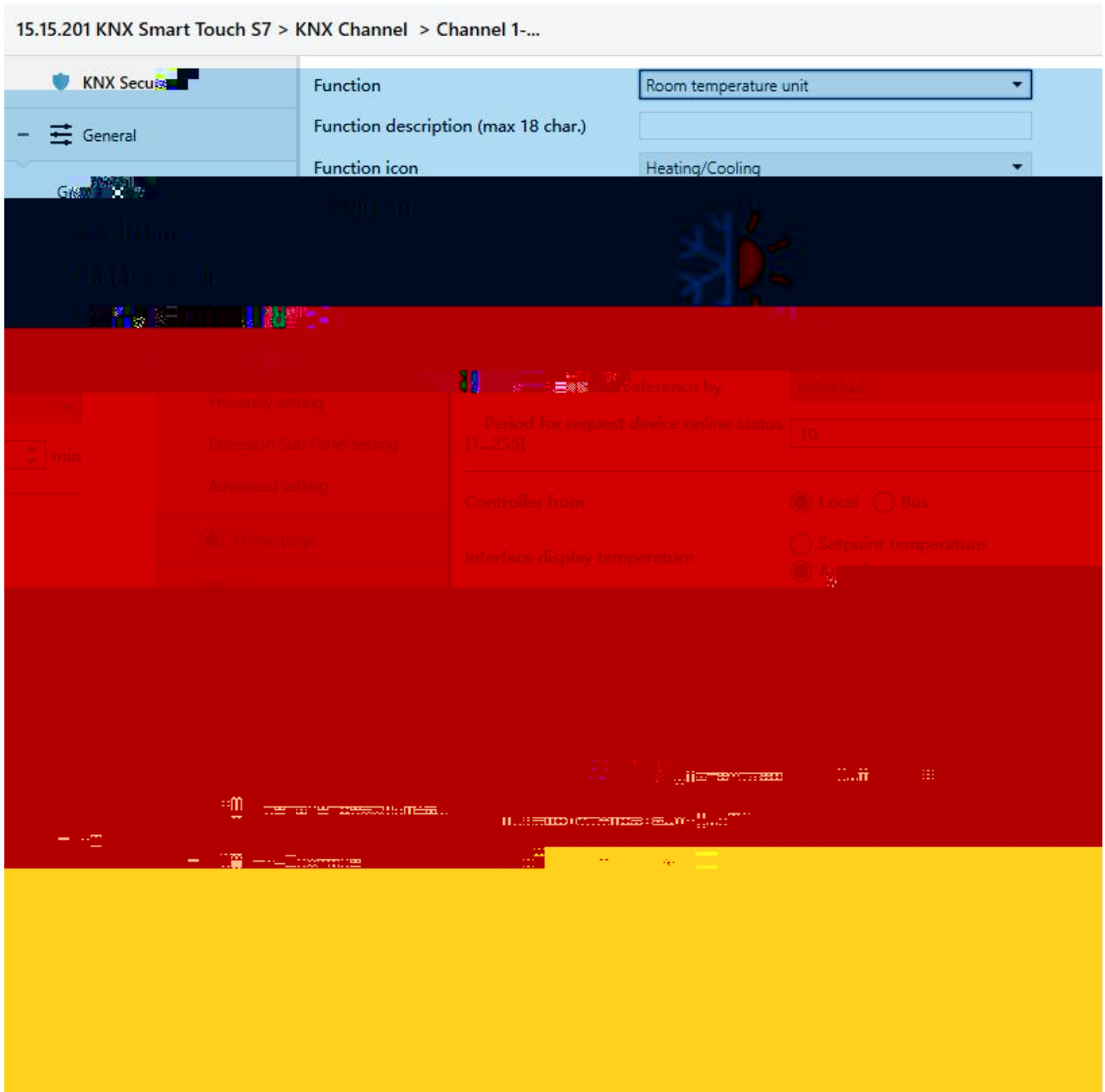
”Vanes swing protection” □□ ”Air conditioner(with swing)” □ ᵏ

□ □□ □ □ □ □ □□ □□ ᵏ □ !□ !

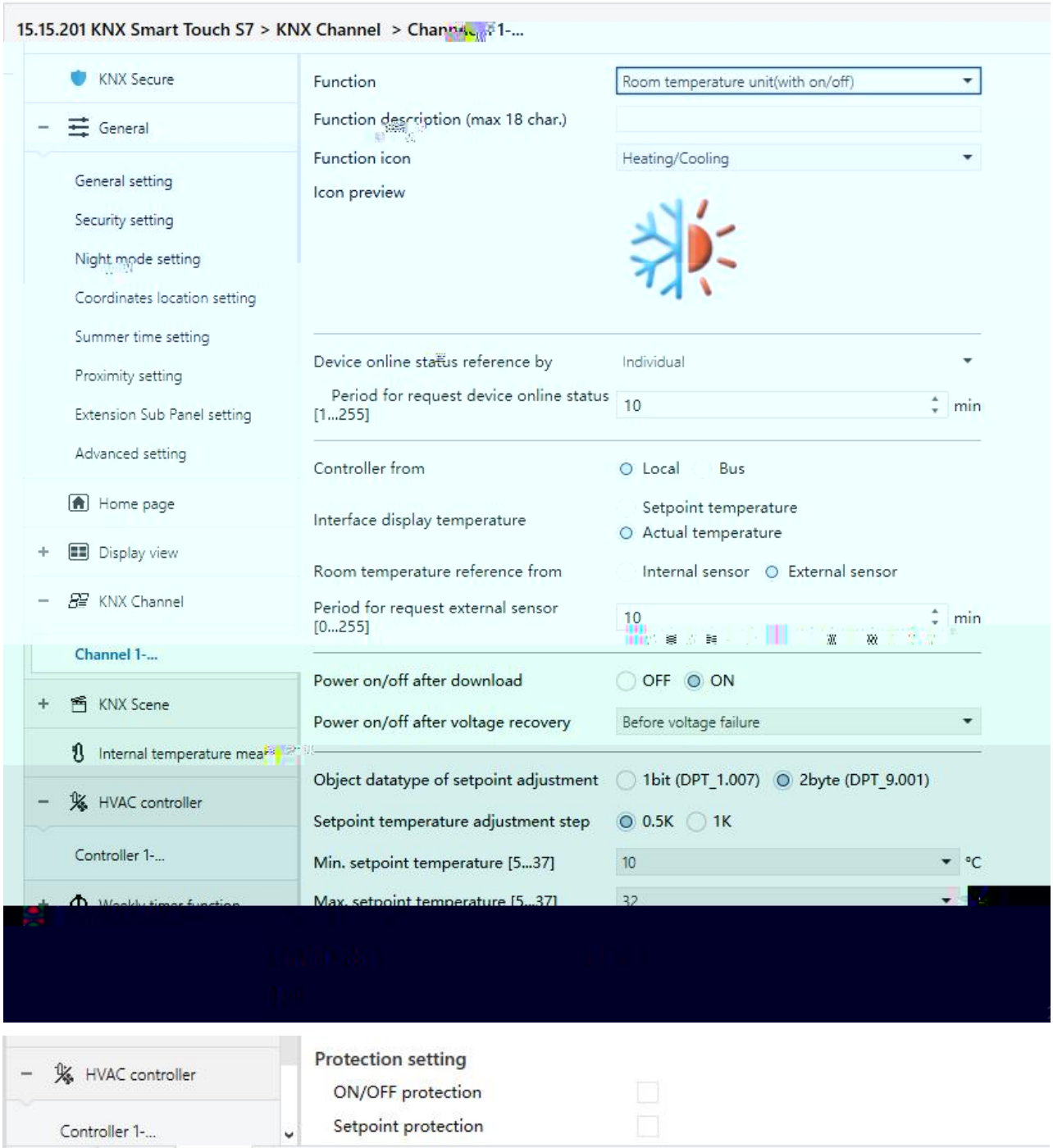
! □□ □ ᵏ

□ □ □ □ □ □□ □ □ ᵏ

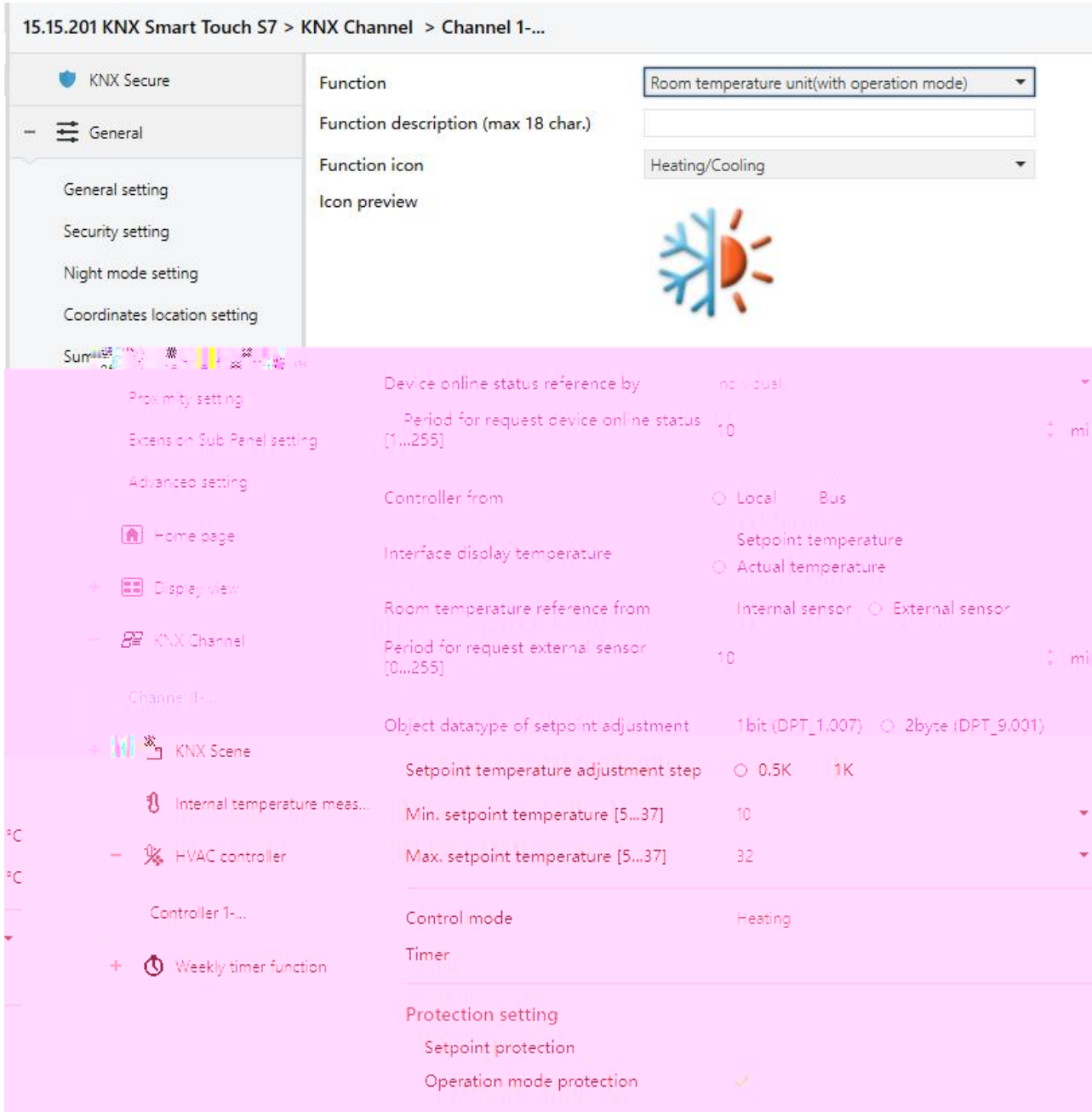
5.11.2.8.□ □



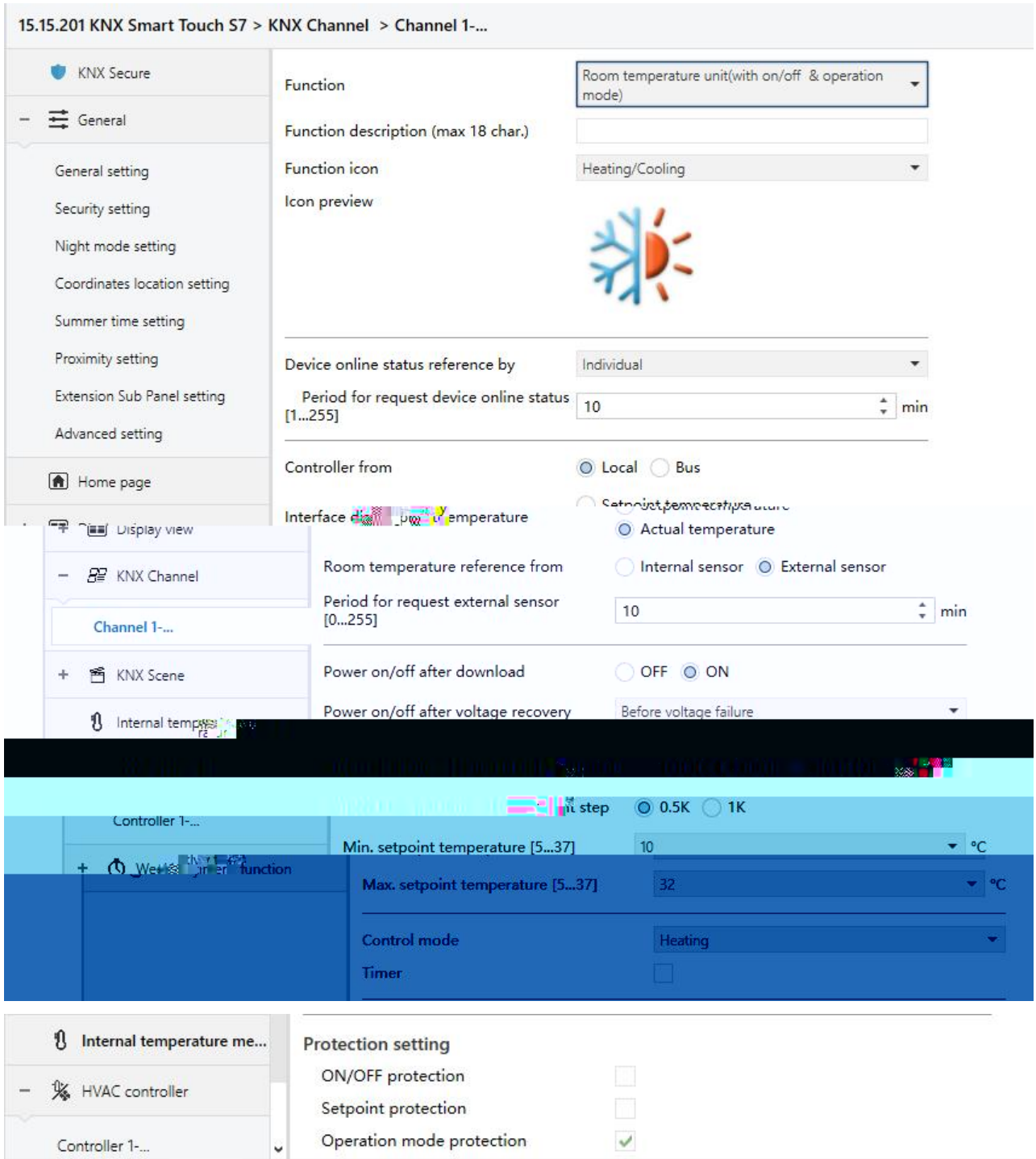
Room temperature unit(External sensor)



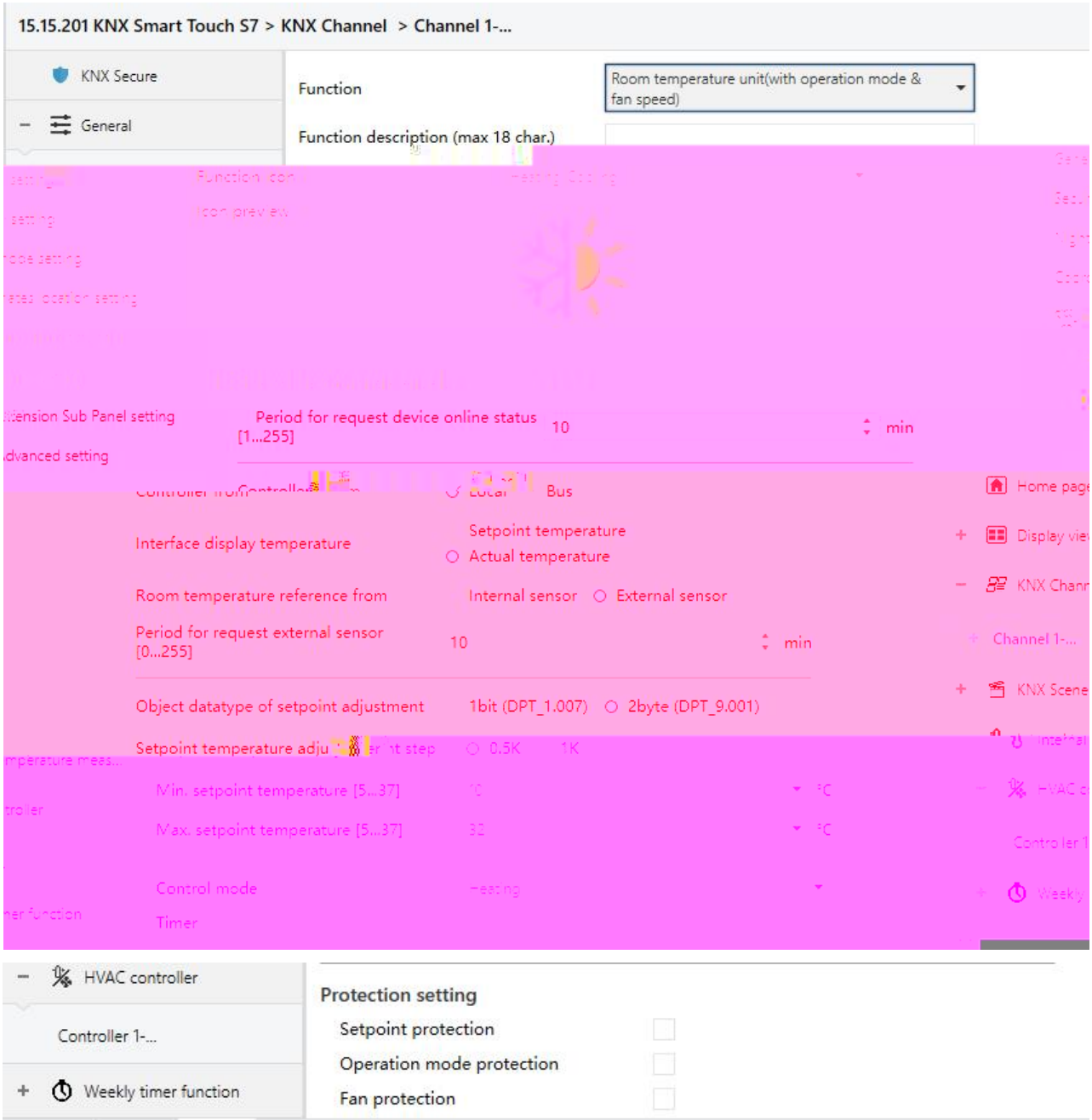
Room temperature unit(with on/off)-External sensor



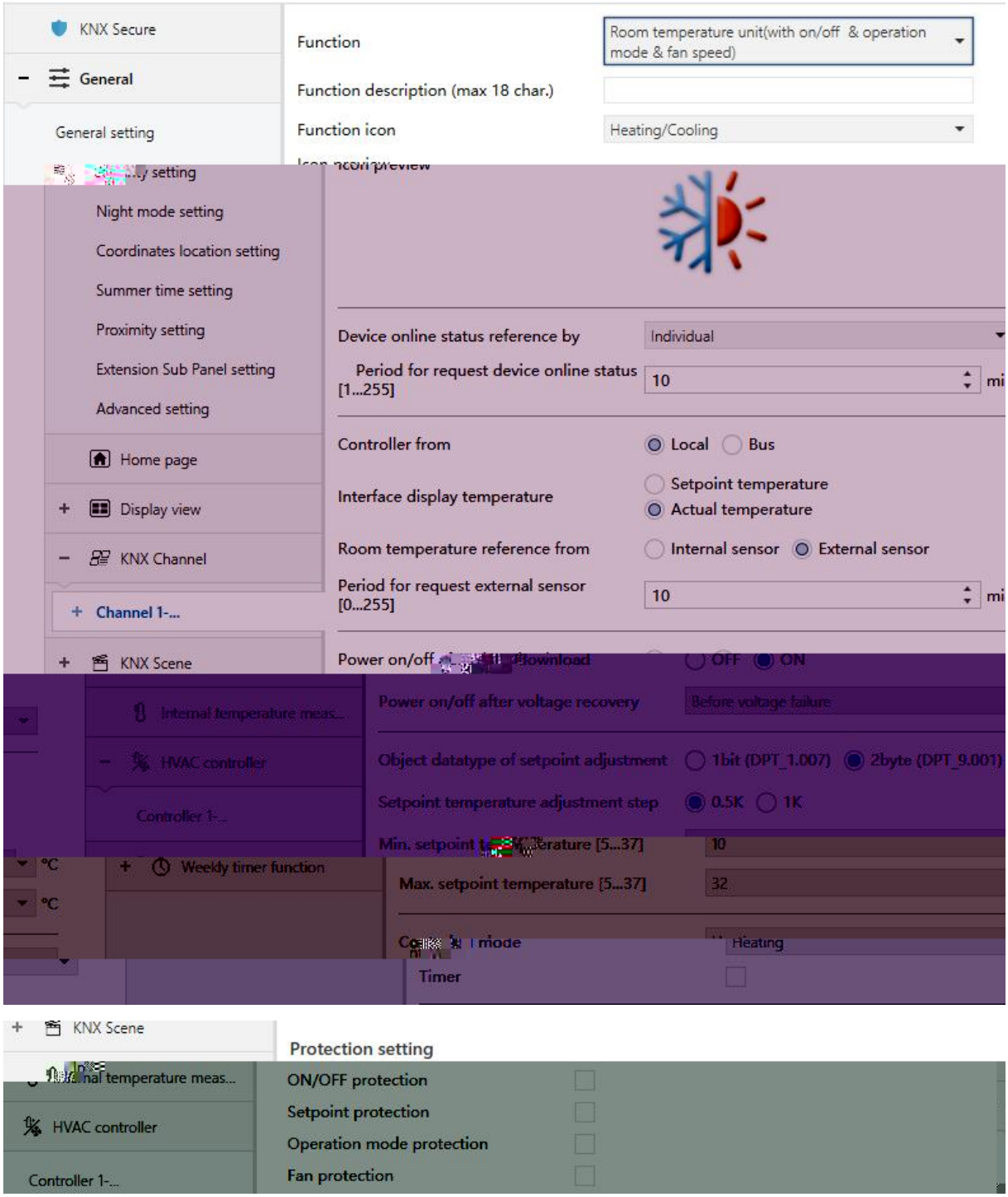
Room temperature unit(with operation mode)-External sensor



Room temperature unit(with on/off & operation mode)-External sensor

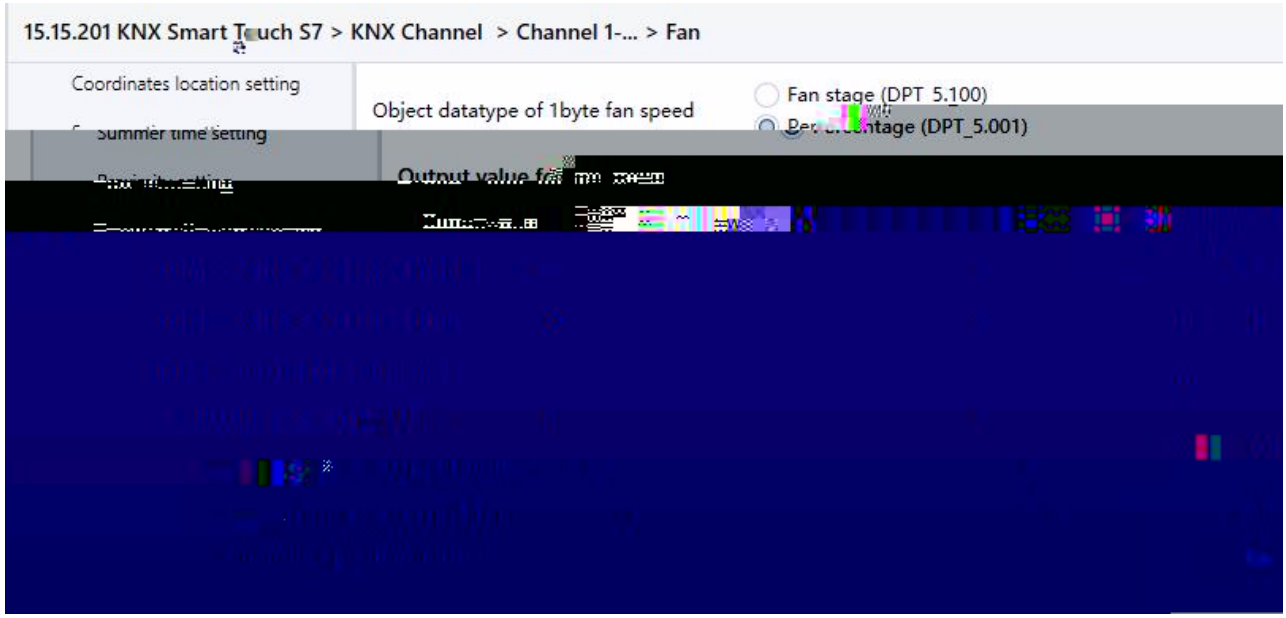


Room temperature unit(with operation mode & fan speed)-External sensor



Room temperature unit(with on/off & operation mode & fan speed)-External sensor

5.11.2(8) □ □ □ □



5.11.2.1(9) Fan □ □

"Controller from"

□ □ □ □ k □ □ □ □ □ □ □ □ □ !

! □ □ □ (□ □ □ □ □) k □ □ □

Local

Bus

"Interface display temperature"

□ □ □ □ □ □ □ k □ □ □

Setpoint temperature □ □

Actual temperature □

□ □ □ □ □ □ □ □ □ □ □ □ □ □ k

"Room temperature reference from"

□ "Actual temperature" □ k □ □ □ □ □ □ □ □ □ k □ □ □

Internal sensor □

External sensor □

“Period for request external sensor [0...255]min”

□ “External sensor” □ □ k□ □ □ □ □ □ □ □ □ □ k

□ □ □ **0..255**

□ □ □ □ □ □ k

”Object datatype of setpoint adjustment”

□ □ □ □ □ □ k □ □ □

1bit (DPT_1.007)

2byte (DPT_9.001)

”Setpoint temperature adjustment step”

□ “2byte (DPT_9.001) ” □ □ k □ □ □ □ □ □ k □ □ □

0.5K

1K

”Min/Max. setpoint temperature [5..37]-C”

□ □ □ □ □ □ □ □ k □ □ □ □ k □ □ □ □ □ □ □

□ k □ □ □ **5...37**

”Control mode”

□ □ □ RTC □ k □ □ □

Heating

Cooling

Heating and Cooling

"Timer"

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ k

□ □ □ □ k

Protection setting □ □

"ON/OFF protection"

"Setpoint protection"

"Control mode protection □

"Operation mode protection"

"Fan protection"

□ □ □ □ □ □ □ □ □ □ k □ ! □ !

! □ □ □ k

□ □ □ □ □ □ □ □ □ k

□ □ □ □ □

1. on/off □ □ □ □ ON/OFF □

2.Control mode □ □ □ Heating and Cooling □ □

3. operation mode □ □ □ □ Operation mode □

4. fan speed □ □ □ □ Fan □

□ □ **Room temperature unit(with on/off) Room temperature unit(with on/off &**

operation mode) Room temperature unit(with on/off & operation mode & fan speed) □ k

"Power on/off after download"

□ □ □ □ □ □ □ □ □ k □ □ □

OFF

ON

"Power on/off after voltage recovery"

□ □ □ □ □ □ □ □ □ k □ □ □

OFF

ON

Before voltage failure □ □ □

OFF □ □ □ □ □ □ □ □ □ □

ON □ □ □ □ □ □ □ □

Before voltage failure □ □ □ □ □ □ □ □ □ k

□ □ **"Room temperature unit(with operation mode & fan speed)" "Room**

temperature unit(with on/off & operation mode & fan speed)" □ k **5.11.2.1(8)** □ k

"Object datatype of 1byte fan speed"

□ □ □ 1byte □ □ □ □ □ k □ □ □

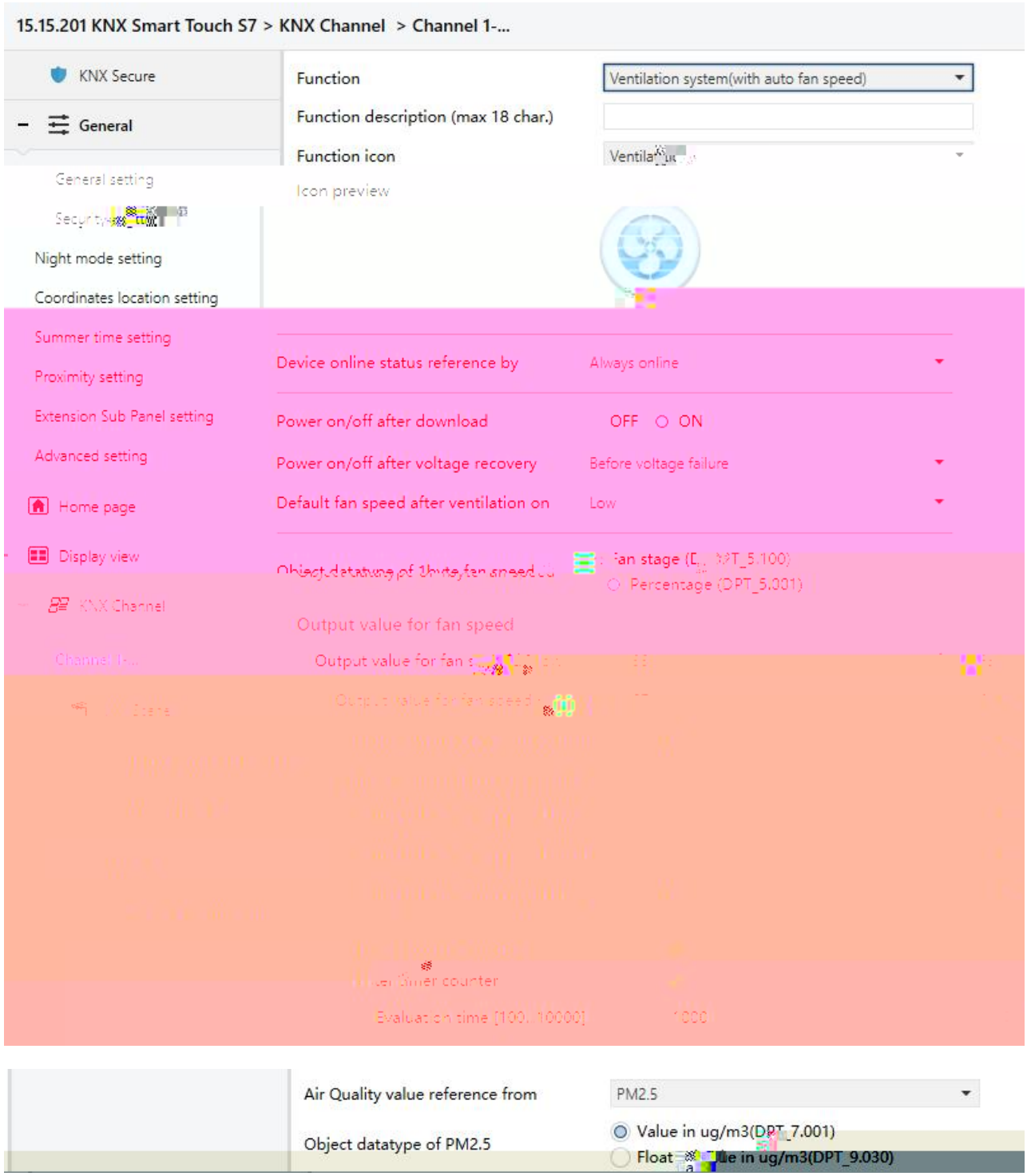
Fan stage (DPT 5.100)

Percentage (DPT 5.001)

"Output value for fan speed low/medium/high"

5.11.2.9. □ □

Ventilation system



Ventilation system(with auto fan speed)

5.11.2(10) □ □ □□□□

"Power on/off after download"

□ □ □ □ □ □ □ □ □ □ □ k □ □ □

OFF

ON

"Power on/off after voltage recovery"

□ □ □ □ □ □ □ □ □ □ □ k □ □ □

OFF

ON

Before voltage failure □ □ □

OFF□ □ □ □ □ □ □ □ ! □ □ □ □

ON□ □ □ □ □ □ □ □ □

Before voltage failure□ □ □ □ □ □ □ □ □ □ k

"Default fan speed after ventilation on"

□ □ □ □ □ □ □ k □ □ □

Low

Medium

High

Last status □

"Object datatype of 1byte fan speed"

□ □ □ 1byte □ □ □ □ □ k □ □ □

Fan stage (DPT 5.100)

Percentage (DPT 5.001)

Output value for fan speed □ □ □

"Output value for fan speed low/medium/high"

□ □ □ □ □ □ ! ! □ 4 □ □ □ k □ □ □

□ □ □ **0..255/0..100**

Status feedback for fan speed □ □ □ □

"Status value for fan speed low/medium/high"

□ □ □ □ □ □ □ □ ! ! □ 4 □ □ □ k □ □ □ □ □ □

□ k □ □ □ □ □ **0..255/0..100**

"Heat recovery function"

□ □ □ □ □ □ □ □ □ □ k

"Filter timer counter"

□ □ □ □ □ □ □ □ □ □ □ □ k

• • **"Evaluation time [100..10000]h"**

□ □ □ □ □ □ k □ □ □ **100..10000**

□ □ □ □ □ □ □ □ □ □ □ □ □ □ k

□ □ □ □ □ "Filter timer reset" □ k

□ □ □ □ □ "Filter timer counter" □ □ □ □ □ □ □ □ □

□ □ □ □ □ "Filter timer counter change" □ □ □ □ □ k

□□ **Ventilation system(with auto fan speed)** □ k

□ □□ □ □ □ k

"Air Quality value reference from "

□□□ □ □□ k □□□

PM2.5

CO2

VOC

" Object datatype of PM2.5"

□□ PM2.5 □ □□ k □□□

Value in ug/m3(DPT_7.001)

Float value in ug/m3(DPT_9.030)

" Object datatype of VOC"

□□ VOC □ □□ k □□□

Value in ug/m3(DPT_7.001)

Float value in ug/m3(DPT_9.030)

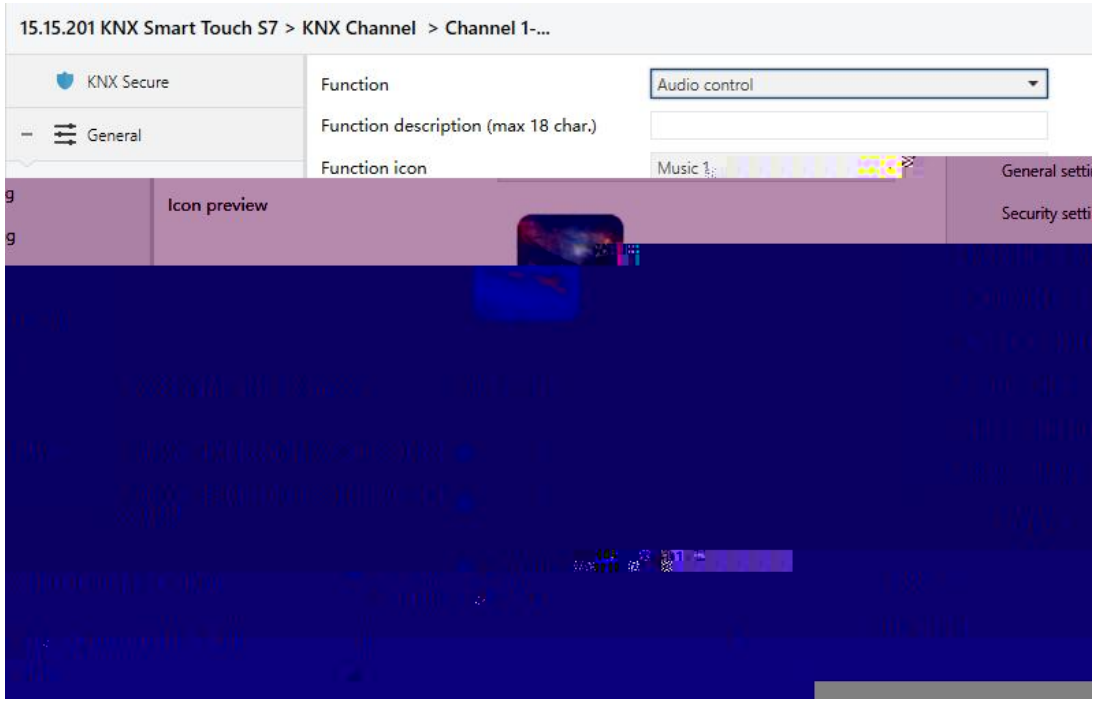
" Object datatype of CO2"

□□ CO2 □ □□ k □□□

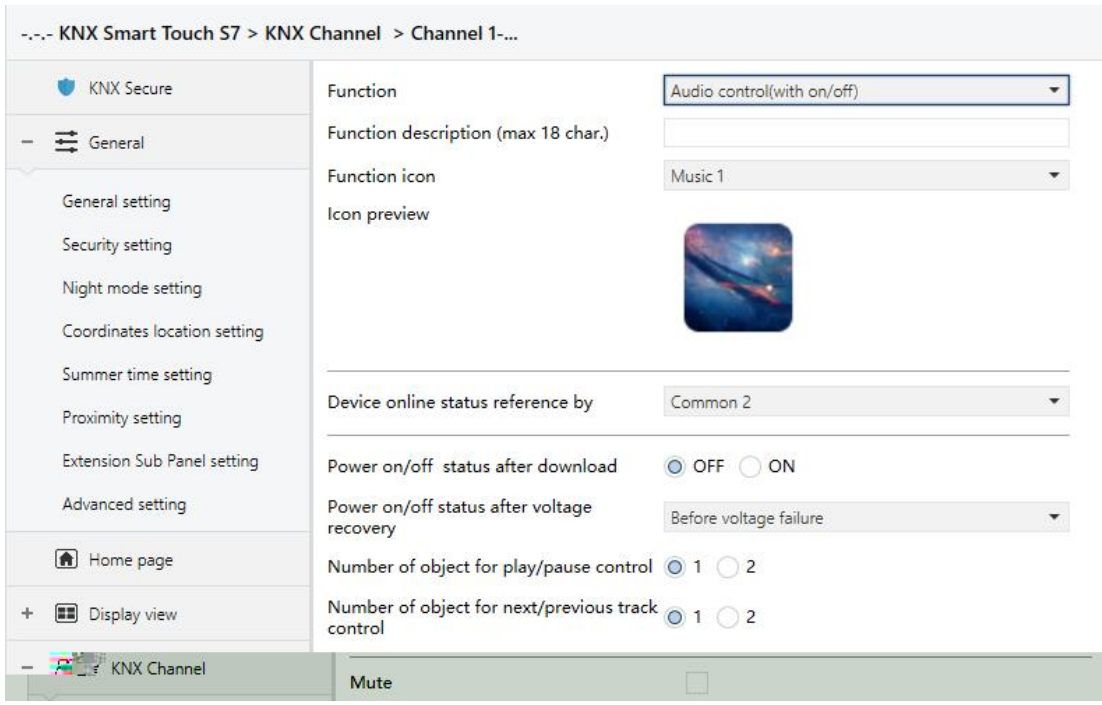
Value in ppm(DPT_7.001)

Float value in ppm(DPT_9.008)

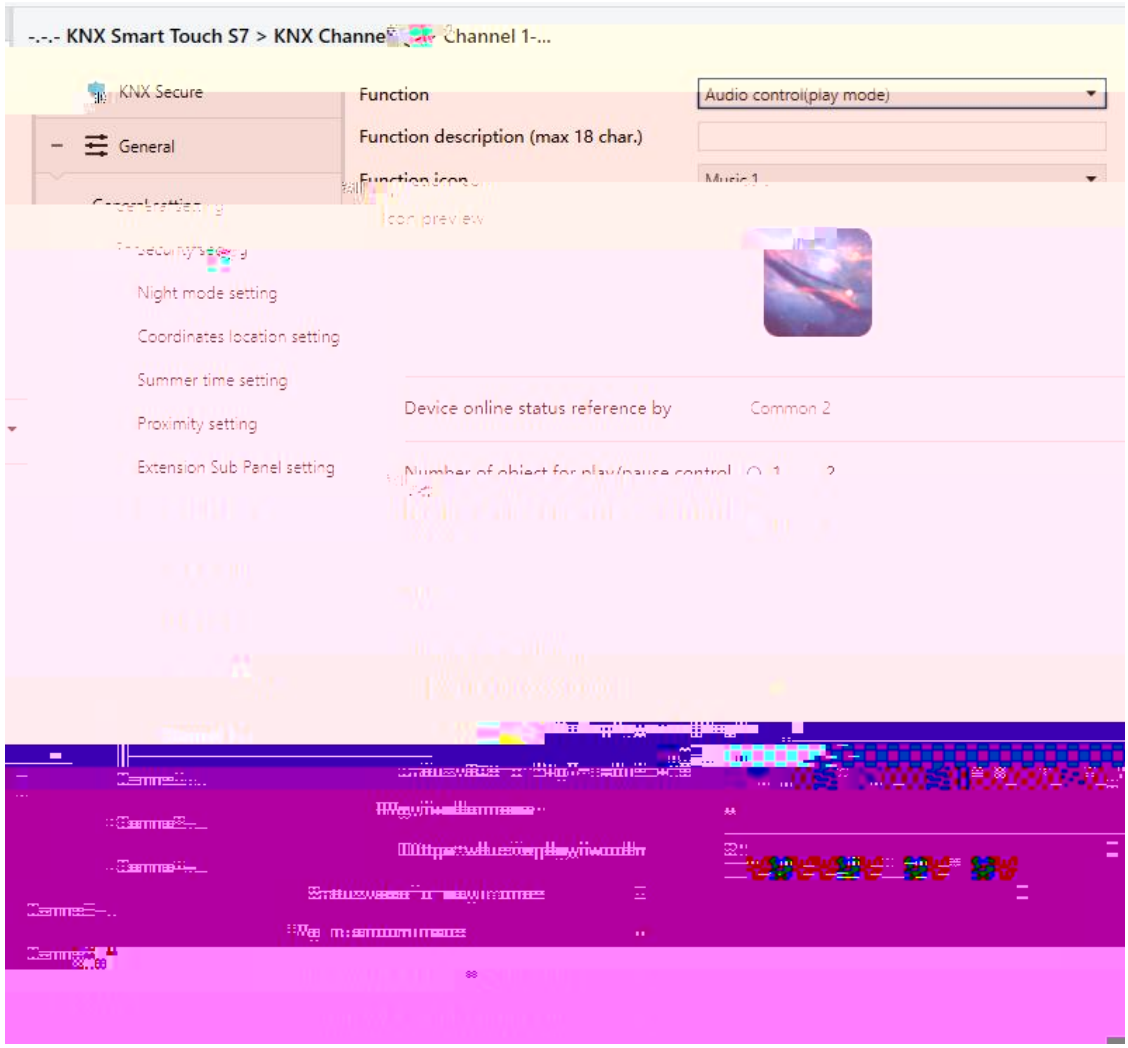
5.11.2.10.□ □ □



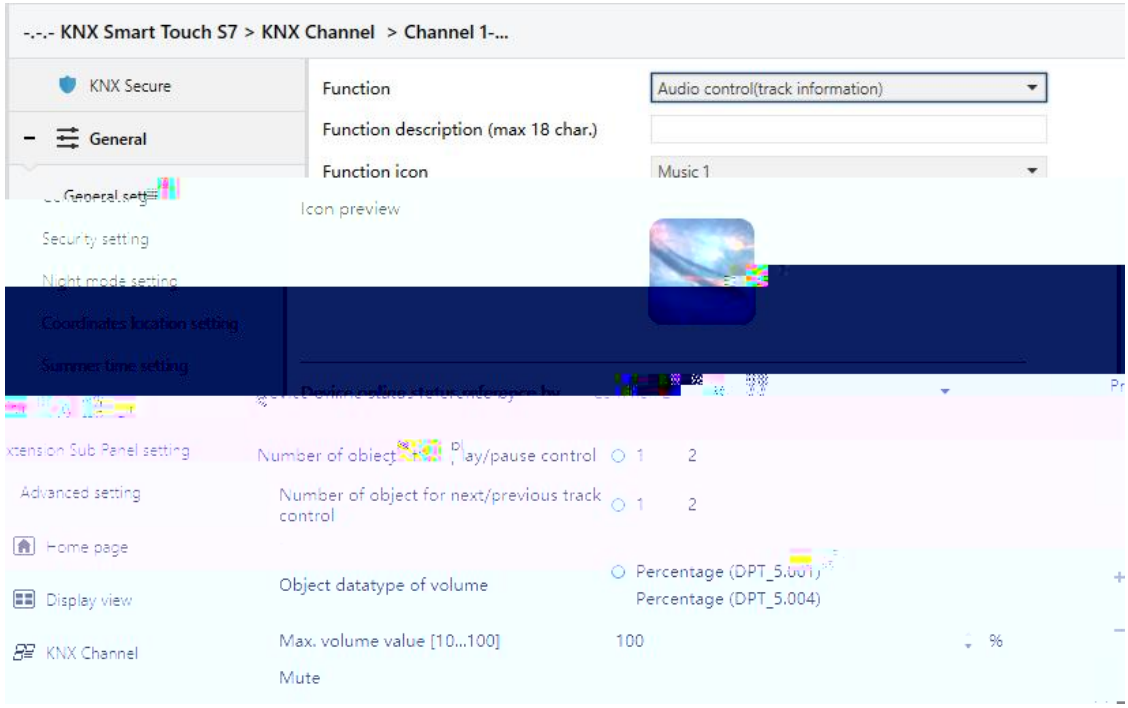
Audio control



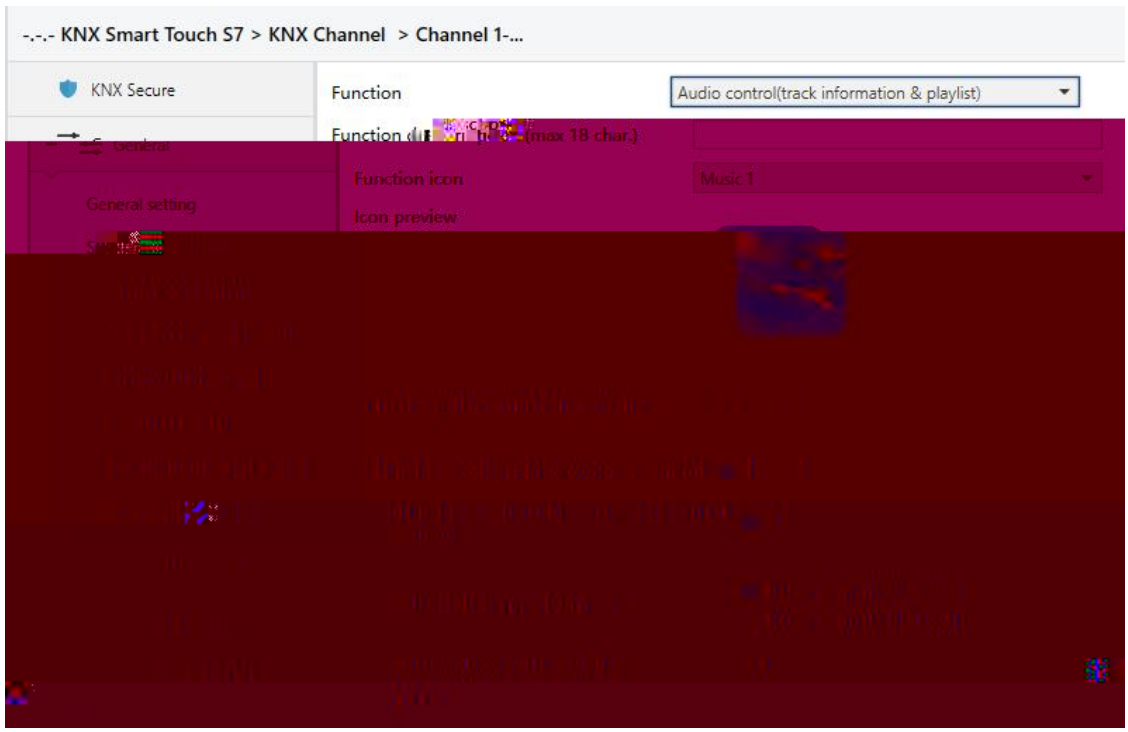
Audio control(with on/off)



Audio control(play mode)



Audio control(track information)



Audio control(track information+playlist)

5.11.2(11) □ □ □ □□□□

" Number of object for play/pause control"

□ □ / □ □ □ 1 □ □ □ 2 k □ □ □

1

2

" Number of object for next/previous track control"

□ □ / □ □ □ 1 □ □ □ 2 k □ □ □

1

2

" Mute"

□ □ □ □ □ □ k

□ □ "Audio control(with on/off)" □ k

" Power on/off status after download"

□ □ □ □ □ □ □ □ □ □ □ k □ □ □

OFF

ON

" Power on/off status after voltage recovery"

□ □ □ □ □ □ □ □ □ □ □ k □ □ □

OFF

ON

Before voltage failure □ □ □

OFF □ □ □ □ □ □ □ □

ON□ □ □ □ □ □ □ □ □

Before voltage failure□ □ □ □ □ □ □ □ □ □ □ k

□ □ **"Audio control/Audio control(track information)/Audio control(track information+playlist)"** □ k

" Object datatype of volume"

□ □ □ □ □ □ k □ □ □

Percentage (DPT_5.001)

Percentage (DPT_5.004)

" Max. volume value [10..100]%"

□ □ □ □ □ □ □ k □ □ □ **10..100**

□ □ **"Audio control(play mode)"** □ k

Play mode setting □ □

" Play in single cycle mode"

□ □ □ □ □ □ k □ □ k

"Output value for play in single cycle"

□ □ □ □ □ □ k □ □ □ **0..255**

"Status value for play in single cycle"

□ □ □ □ □ □ k □ □ □ □ □ k □ □ □ **0..255**

" Play in order mode"

□ □ □ □ □ □ k □ □ k

- **“Output value for play in order”**

□ □ □ □ k □ □ □ **0..255**

- **“Status value for play in order”**

□ □ □ □ □ k □ □ □ □ □ k □ □ □ **0..255**

“ Play in random mode”

□ □ □ □ □ k □ □ k

- **“Output value for play in random”**

□ □ □ □ k □ □ □ **0..255**

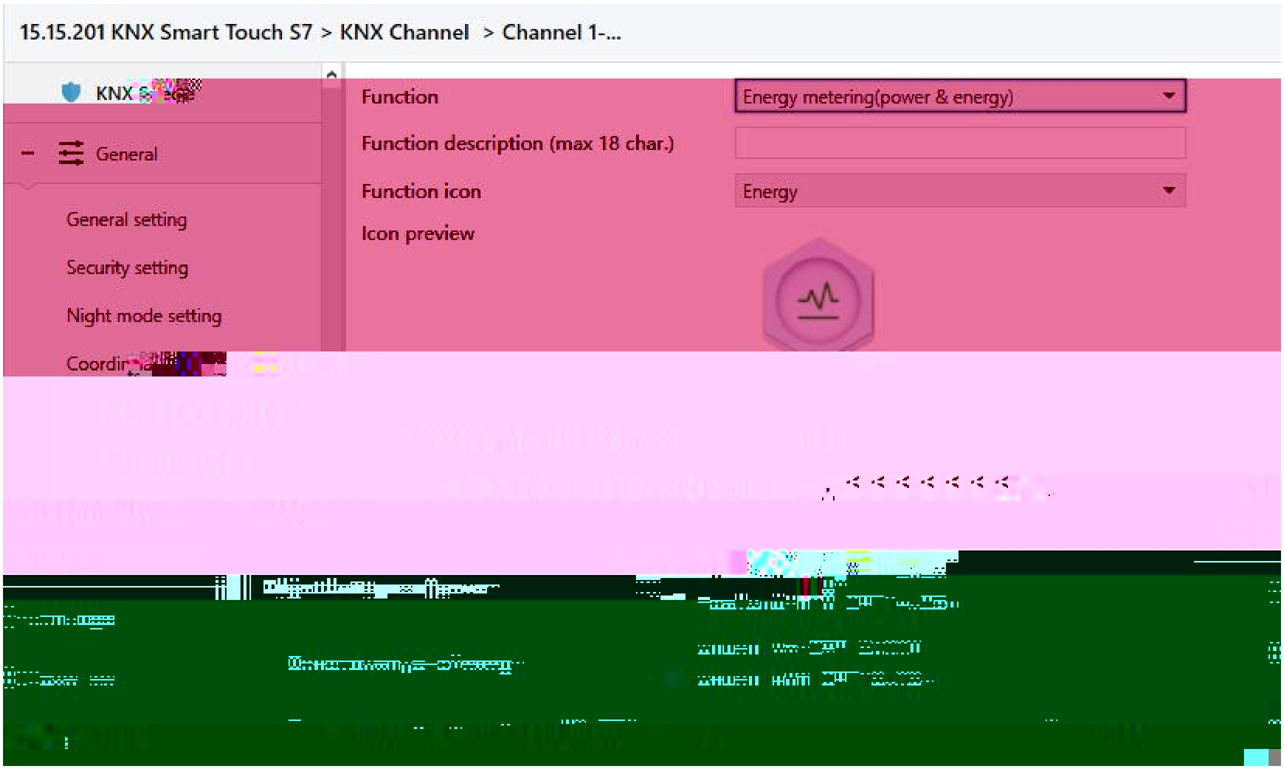
- **“Status value for play in random”**

□ □ □ □ □ k □ □ □ **0..255**

5.11.2.11. □ □ □

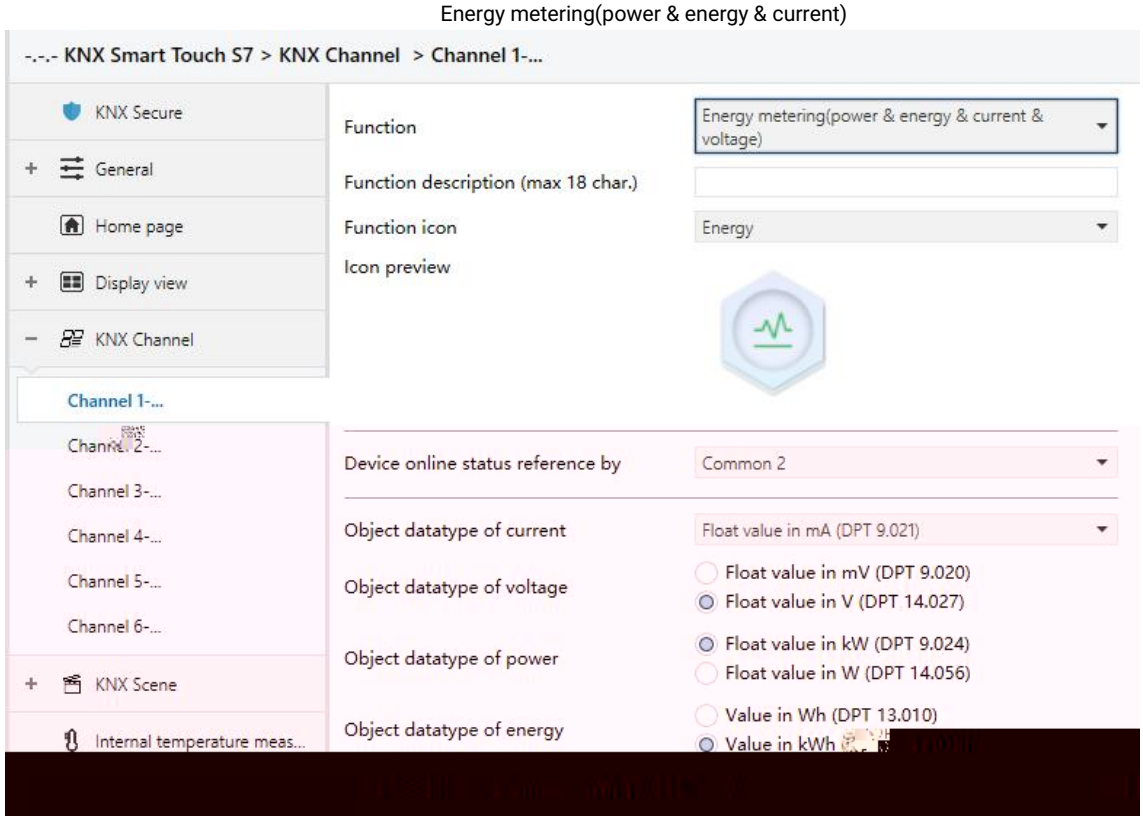
□ □ □ □ □ □ □ 5.11.2(12) □ □ □ □ □ □ □ □ □ □ □ □ □ !

□ ! □ ! □ □ □ k



Energy metering(power & energy)

Energy metering(power & energy & current)



Energy metering(power & energy & current & voltage)

5.11.2(12) □ □ □ □ □ □ □ □

" Object datatype of power"

□□□□ □□□ □ k □□□

Float value in kW (DPT 9.024)

Float value in W (DPT 14.056)

" Object datatype of energy"

□□□□ □□□ □ k □□□

Value in Wh (DPT 13.010)

Value in kWh (DPT 13.013)

" Period for request meter value [0...255]min"

□□□ □ □ □□ □ □ k □□□**0...255**

□□ **"Energy metering(power & energy & current) Energy metering(power & energy & current & voltage)"** □ k

" Object datatype of current"

□□□ □□□ □ k □□□

Value in mA (DPT 7.012)

Float value in mA (DPT 9.021)

Float value in A (DPT 14.019)

□□ **"Energy metering(power & energy & current & voltage)"** □ k

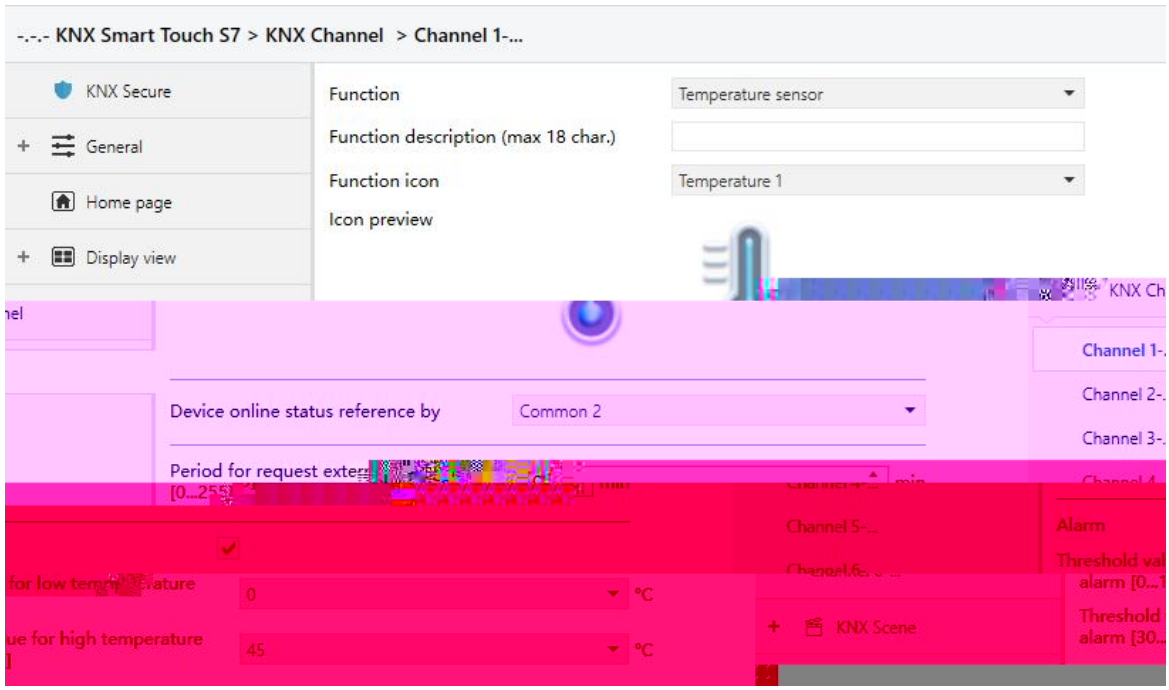
" Object datatype of voltage"

□□□ □□□ □ k □□□

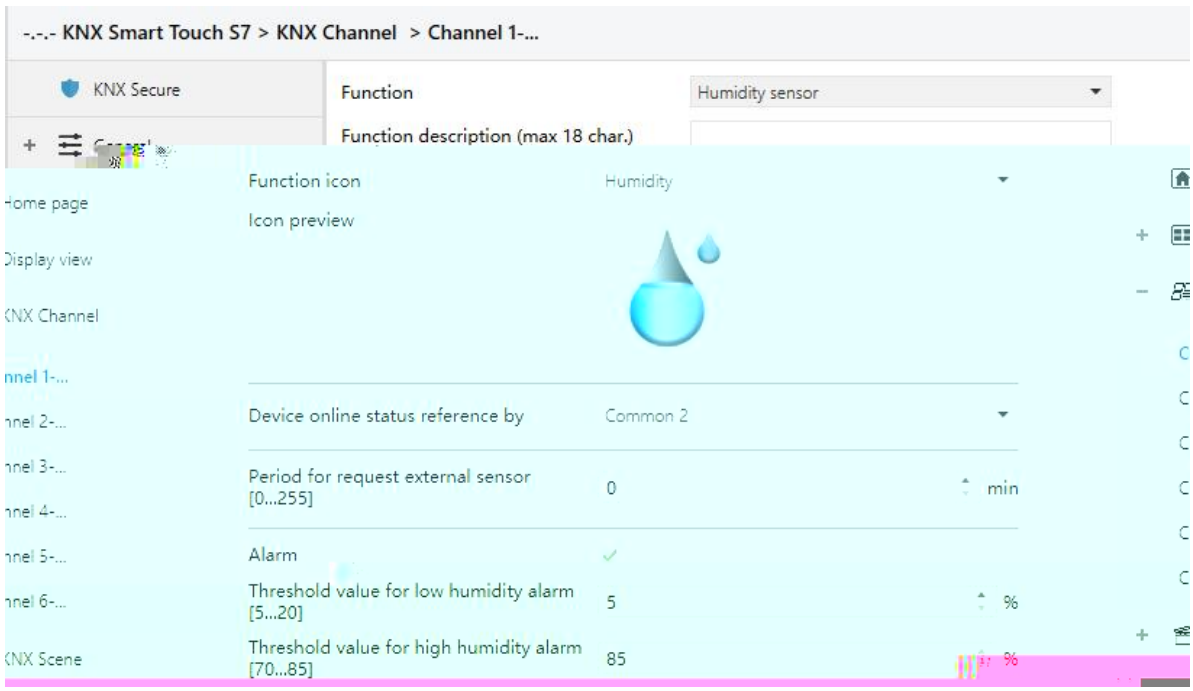
Float value in mV (DPT 9.020)

Float value in V (DPT 14.027)

5.11.2.12.□ /□ □



Temperature sensor



Humidity sensor

5.11.2(13) □ □ □ □ □ □ □ □

" Alarm"

□ □ □ □ □ k□ □ Temperature sensor □Humidity sensor □VOC □PM2.5 sensor □ PM10 sensor □ AQI sensor □ CO2 sensor

" Threshold for low temperature alarm [0...15]"

□ □ □ □ □ k □ □ □ □ □ □ k □ □ □

0°C

1°C

...

15°C

" Threshold for high temperature alarm [30...45]"

□ □ □ □ □ □ k □ □ □ □ □ □ □ □ □ k □ □ □

30°C

31°C

...

45°C

" Threshold for low humidity alarm [5...20]%"

□ □ □ □ □ k □ □ □ □ □ □ k □ □ □ **5..20**

" Threshold for high humidity alarm [70...85]%"

□ □ □ □ □ □ k □ □ □ □ □ □ □ □ □ k □ □ □ **70..85**

" Period for request external sensor [0...255]min"

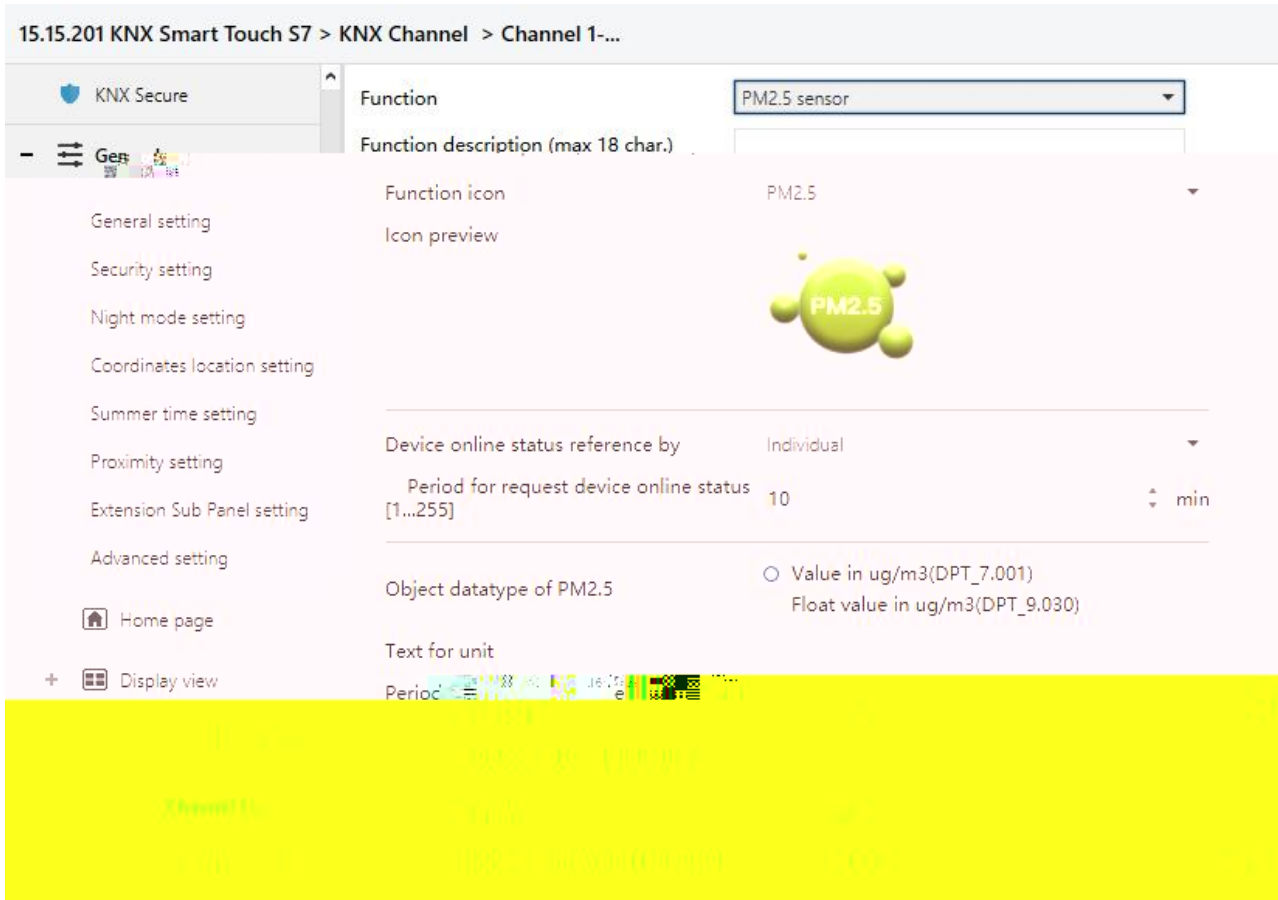
□ □ □ □ □ □ □ □ □ k □ □ □ □ □ □

0 k □ □ □ **0..255**

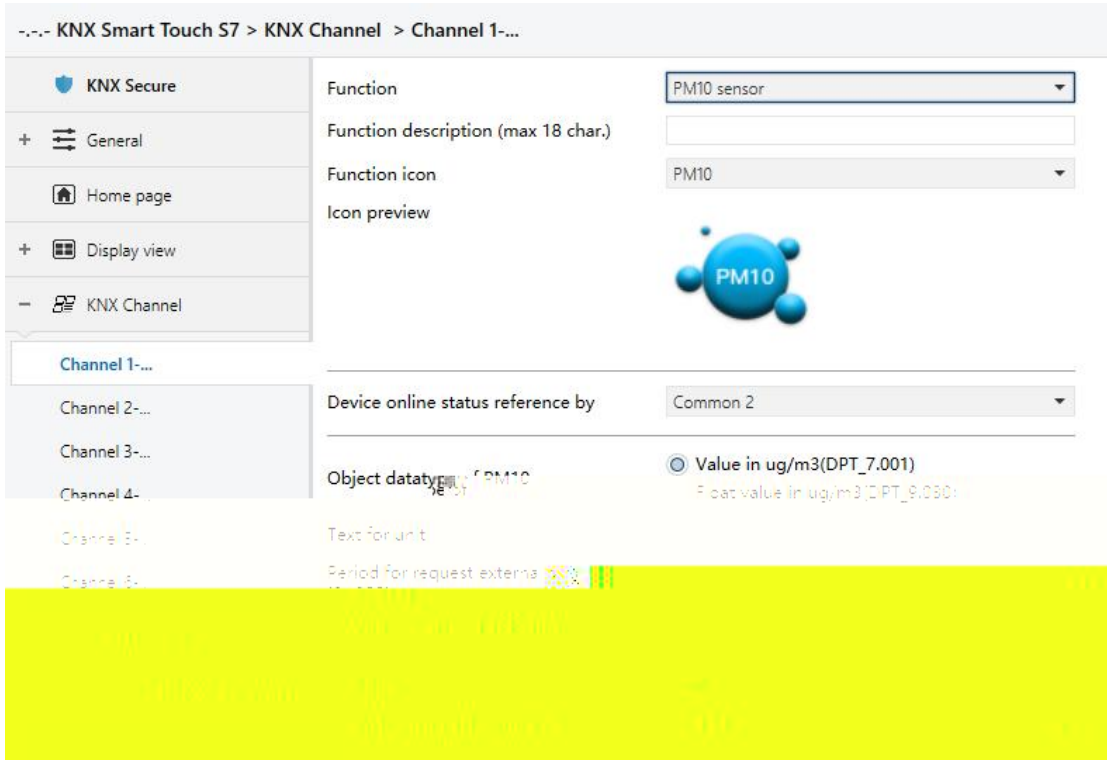
5.11.2.13.□ □ □

□□□□"□ □ □" 5.11.2(14) □□□ □□□ □ □□ □□ □

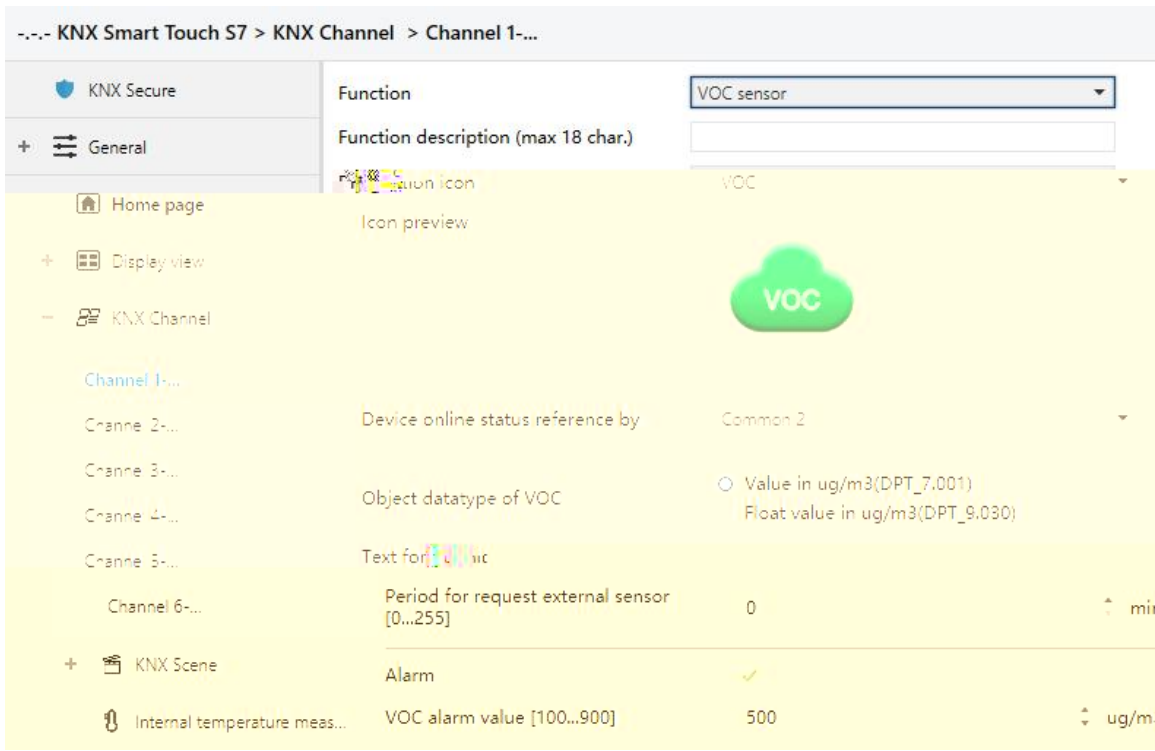
□ PM2.5 ¦ PM10 ¦ VOC ¦ AQI ¦ CO2 ¦ □□ ¦ □ □ □ k



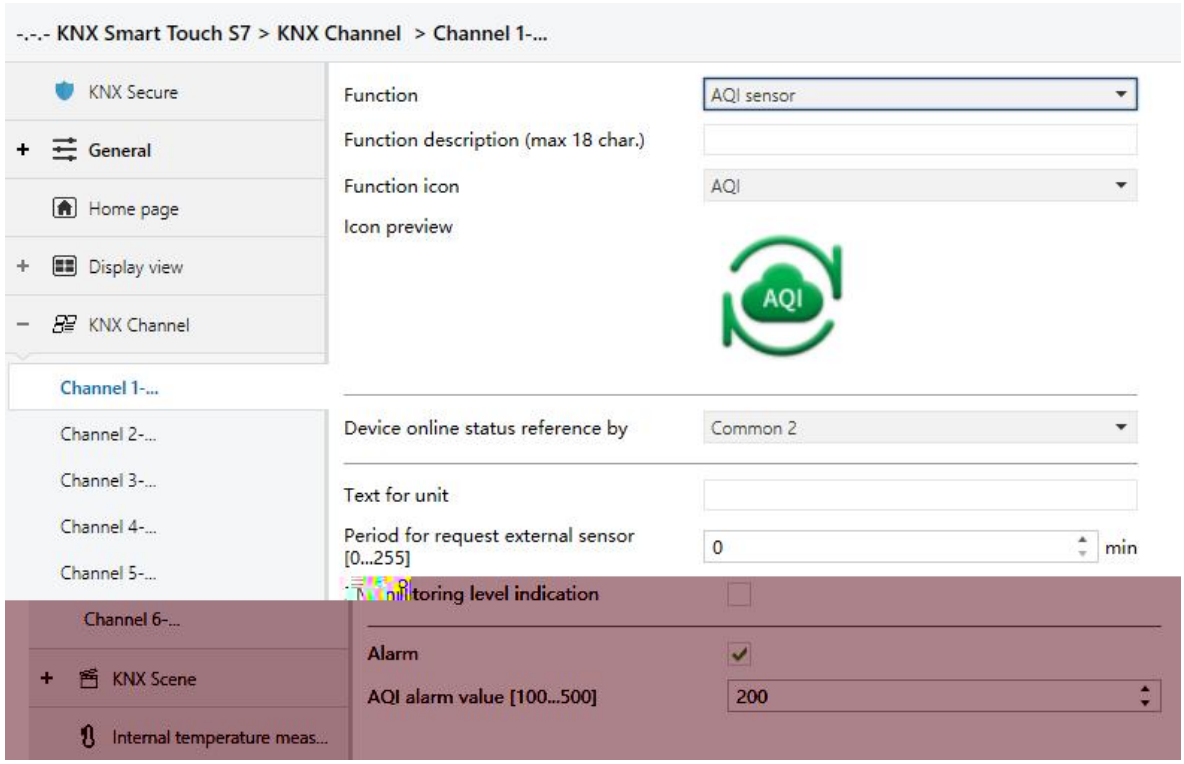
PM2.5 sensor



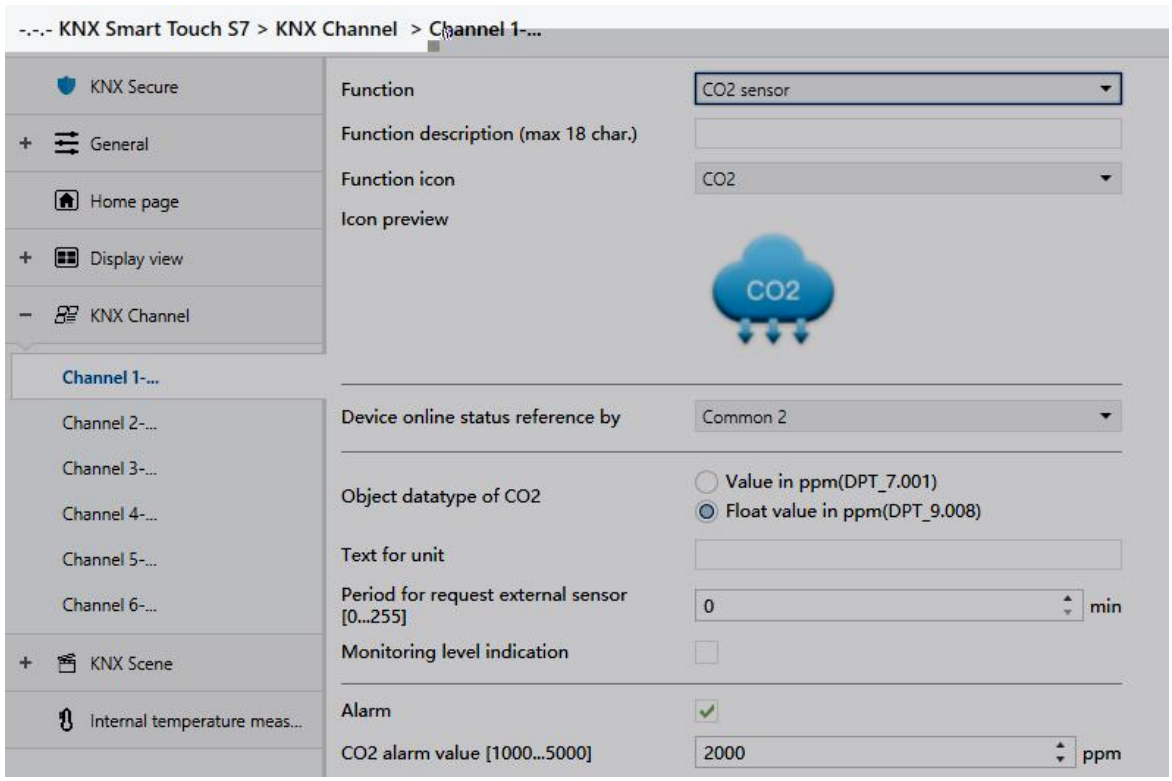
PM10 sensor



VOC sensor

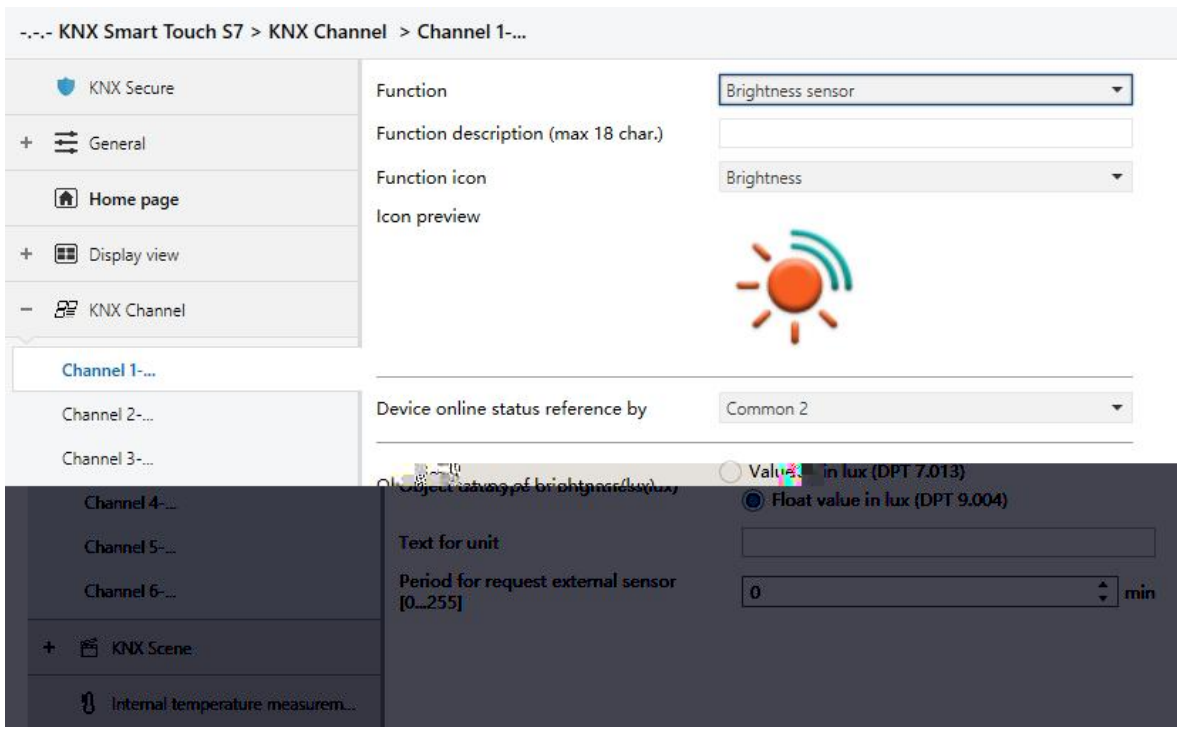


AQI sensor



CO2 sensor

Wind sensor



Brightness sensor

5.11.2(14) □ □ □

" Text for unit"

□ □ □ □ □ □ □ □ □ □ k

" Period for request external sensor [0...255]min"

□ □ □ □ □ □ □ □ □ k □ □ □ □ □

0 k □ □ □ **0..255**

" Monitoring level indication"

□ □ "PM2.5 sensor" □ "PM10 sensor" □ "AQI sensor" □ "CO2 sensor" □ k

□ □ □ □ □ □ □ □ □ □ □ k

□ □ □ □ □ □ □ □ 5.11 k

□ □ "PM2.5 sensor" □ k

" Object datatype of PM2.5"

□ □ PM2.5 □ □ k □ □ □

Value in ug/m3(DPT_7.001)

Float value in ug/m3(DPT_9.030)

" Alarm"

□ □ □ PM2.5 □ k

" PM2.5 alarm value [100....999]ug/m3"

□ □ k □ □ PM2.5 □ □ k PM2.5 □ □ □PM2.5 □

□ k □ □ □ **100...999**

□ □ **"PM10 sensor"** □ k

" Object datatype of PM10"

□ □ PM10 □ □ k □ □ □

Value in ug/m3 (DPT 7.001)

Float value in ug/m3 (DPT 9.030)

" Alarm"

□ □ □ PM10 □ k

" PM10 alarm value [100....999]ug/m3"

□ □ k □ □ PM10 □ □ k PM10 □ □ □PM10 □

□ k □ □ □**100...999**

□ □ **"VOC sensor"** □ k

" Object datatype of VOC"

□ □ VOC □ □ k □ □ □

Value in ug/m3 (DPT 7.001)

Float value in ug/m3 (DPT 9.030)

" Alarm"

□ □ □ VOC □ k

" VOC alarm value [100....900]ug/m3"

□ □ k □ □ VOC □ □ k VOC □ □ □VOC □ □

k □ □ □**100...900**

□ □ **"AQI sensor"** □ k

" Alarm"

□ □ □ AQI □ k

" AQI alarm value [100....500]"

□ □ k □ □ AQI □ □ k AQI □ □ □AQI □ □ k

□ □ □**100...500**

□ □ **"CO2 sensor"** □ k

" Object datatype of CO2"

□ □ CO2 □ □ k □ □ □

Value in ppm(DPT_7.001)

Float value in ppm(DPT_9.008)

" Alarm"

□ □ □ CO2 □ k

" CO2 alarm value [1000....5000]ppm"

□ □ k □ □ CO2 □ □ k CO2 □ □ □CO2 □ □ k

□ □ □**1000...5000**

" Object datatype of brightness(lux)"

□□ □ □ □ k □□□

Value in lux(DPT_7.013)

Float value in lux(DPT_9.004)

□□ **"Wind sensor"** □ k

" Object datatype of wind speed"

□□□□ □ □ k □□□

Float value in m/s(DPT_9.005)

Float value in km/h(DPT_9.028)

" Alarm"

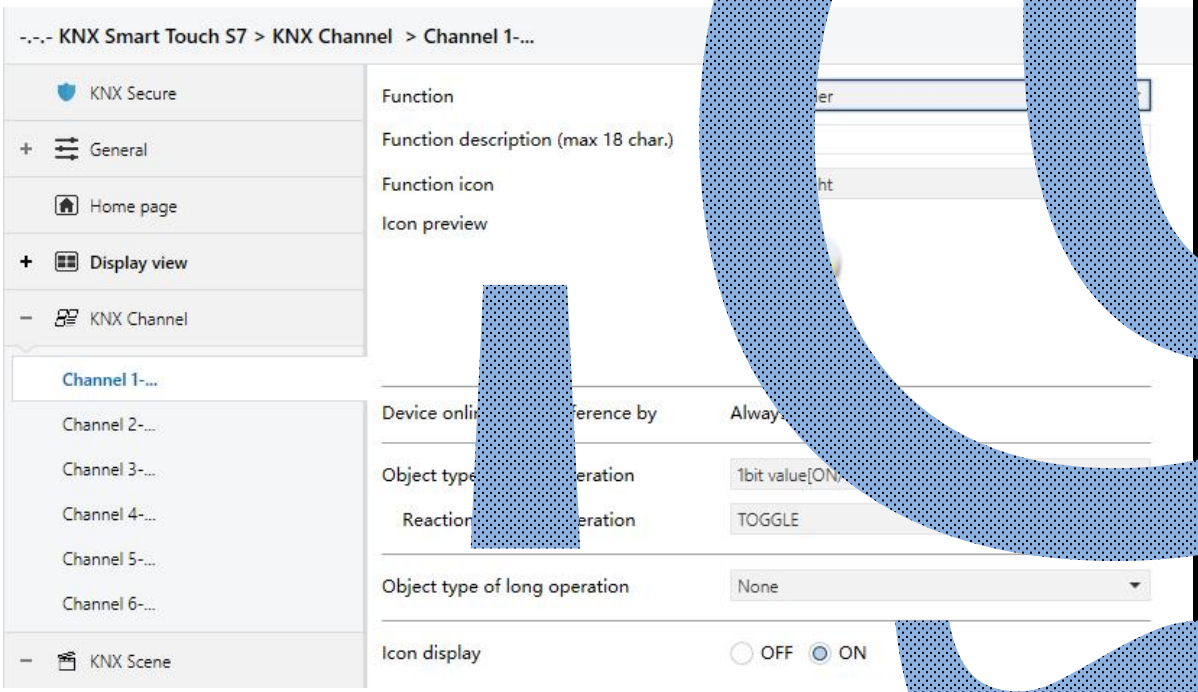
□□ □□□ □ k

- **" Wind alarm value [5..50]m/s"**
- **" Wind alarm value [20..150]km/h"**

□□□□□ □□ k □□□ □ □□□□ □ k □□□

5...50/20...150

5.11.2.15. □



5.11.2(16) □ □□□□

"Object type of short operation"

"Object type of

dRAFT

• • **“Object datatype”**

□ “2bit/4bit value” □ ᵏ □ □ □ 2bit □ 4bit □ □ ᵏ □ □ □

2bit value[0..3]

4bit value[0..15]

“Reaction on short operation”

“Reaction on long operation”

□ □ □ □ □/□ □ ᵏ □ □ □ □ □ ᵏ

□ 1bit □ □ □ □

OFF

ON

TOGGLE

□ 2bit/4bit/1byte/2byte/4byte □ □ □ □

Value 1

Alternating Value1/Value2 **1/ 2**

• • **“Value 1”**

□ 2bit/4bit/1byte/2byte/4byte □ □ ᵏ □ □ □ □/□ □ 1 ᵏ □ □

□ □ ᵏ □ □ □ **0~3 / 0~15 / 0~255 / 0~65535 / -670760~670760 / 0~4294967295 / -3.40...~3.40...**

• • **“Value 2”**

□ 2bit/4bit/1byte/2byte “Alternating Value1/Value2” □ □ ᵏ □ □ □ □/□

□ 2 ᵏ □ □ □ □ ᵏ □ □ □ **0~3 / 0..15 / 0..255 / 0..65535 / -670760~670760 / 0~4294967295 / -3.40...~3.40...**

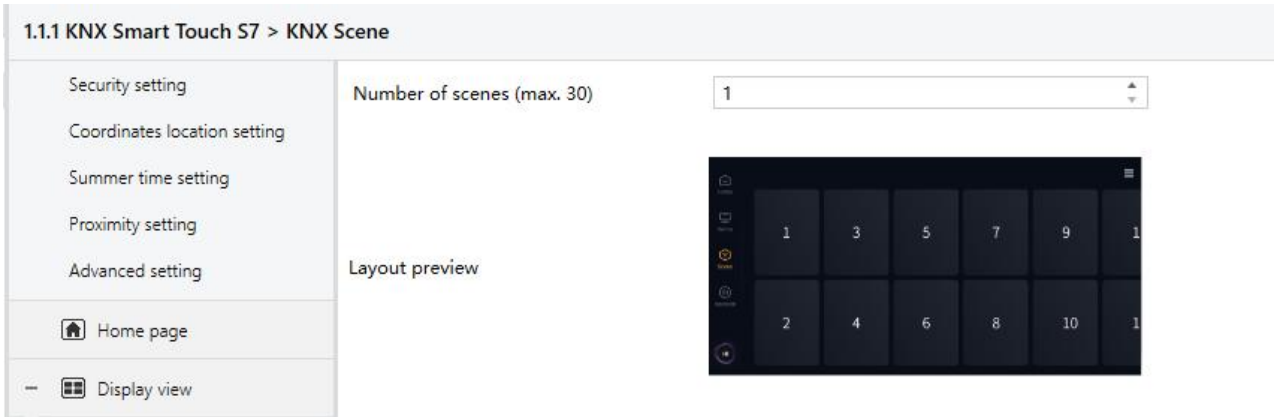
"Icon display"

□ □ □ □ □ k □ □ □

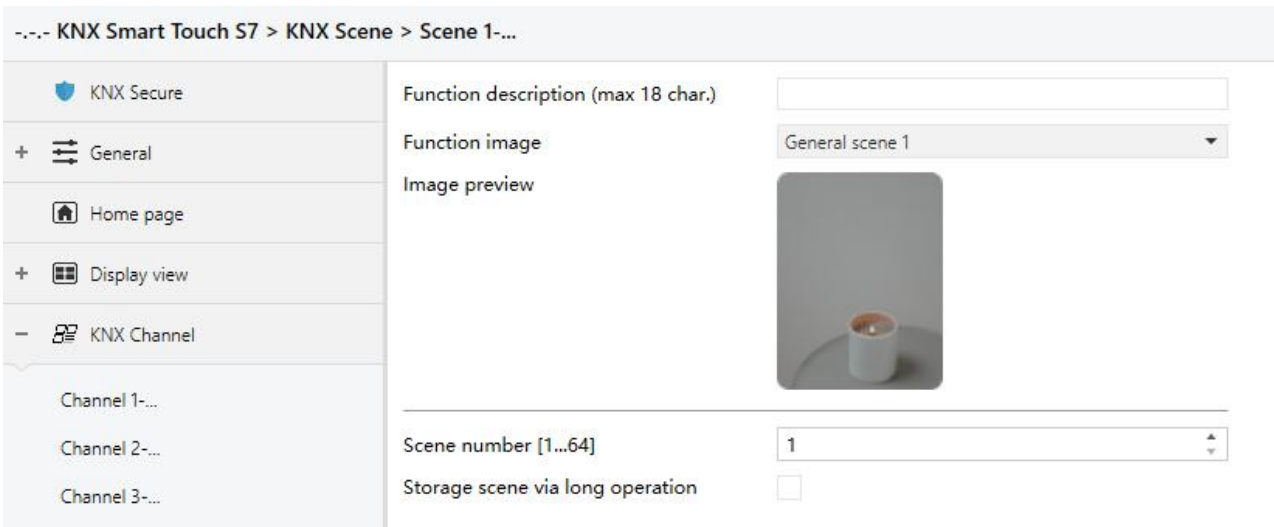
OFF

ON

5.12 □ □ □ □ "KNX Scene"



5.12(1) "KNX Scene" □ □ □ □ □



5.12(2) "Scene X" □ □ □ □ □

" Number of scenes (max.30)"

□ □ □ k □ □ □ **1...30**

" Function description (max 18char.)"

□ □ □ □ □ □ □ 18 □ k

" Function image"

□ □ □ □ □ k □ □ □

General scene 1

General scene 1

...

Romantic

Play

"Image preview"

□ □ □ k

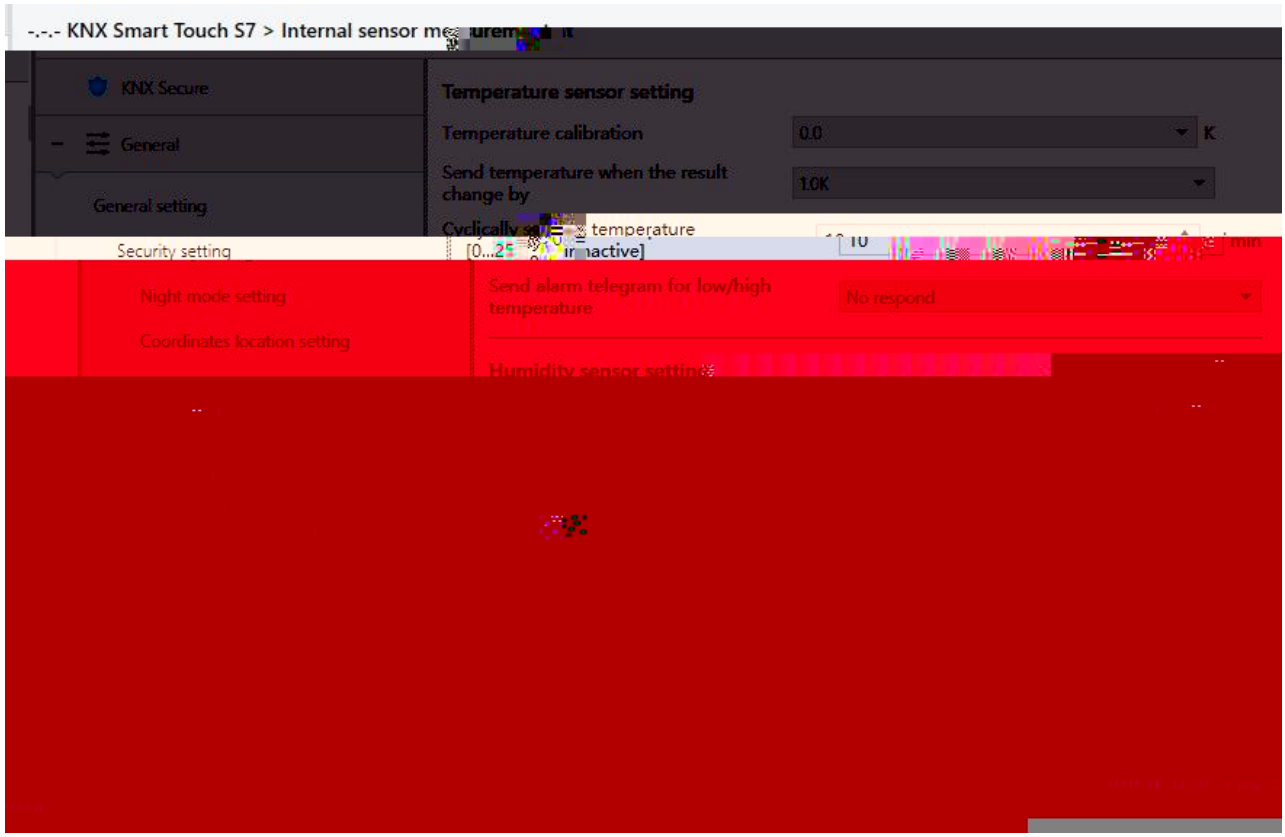
"Scene number [1..64]"

□ □ k □ □ □ **1...64**

"Storage scene via long operation"

□ □ □ □ k

5.13 □□ □□ “Internal sensor measurement”



5.13 “Internal sensor measurement” □ □ □ □

□ □□□ □□/□ □ ! □□ □ □ □□ □

□□ □ □□□ k

Temperature sensor setting □ □□

“Temperature calibration”

□□ □□ □□ □ □□ □ □□ □ □

□ □ k □□□

-5K

...

KNX/E

“ Low temperature alarm”/“ High temperature alarm” □ □ □ □

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

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

“Threshold value for low temperature alarm [0..15]-C”

□ □ □ □ □ k □ □ □ □ □ □ k □ □ □

0°C

1°C

...

15°C

“Threshold value for high temperature alarm [30..45]-C”

□ □ □ □ □ □ k □ □ □ □ □ □ □ □ □ k □ □ □

30°C

31°C

...

45°C

Humidity sensor setting □ □ □

“Humidity calibration”

□ □ □ □ □ □ □ □ □ □ □ □ □

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

“Send humidity when the result change by [0..20]%”

□ □ □ □ □ □ k 0 k □ □ □ **0..20**

“Cyclically send humidity [0..255,0=inactive]min”

□□□ □ □ □ k 0 k □□□**0..255**

□ □□□□ □□ □ □ □ k

“Send alarm telegram for low/high humidity”

□□□/ □ □ □□ □ k □□□

No respond

Respond after read only

Respond after change

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

“Threshold value for low humidity alarm [5..20]%”

□□ □ □□ k □ □ □ □□ □ k □□□**5..20**

“Threshold value for high humidity alarm [70..85]%”

□□□□ □□ k □ □ □□ □□□□ □ k □□□**70..85**

□ □ □□ □

□□ □ □ □ □□□□□ □ □□ □□□ □□□ k

□ □ □C□ □□ □□□ □ □□□W□ □□ □ □□□ □ □

□R□ □□ □ □□□ □□ □□T□ □□ □ □□□U□ □□ □ □□ k

6.1 “General”□□□□

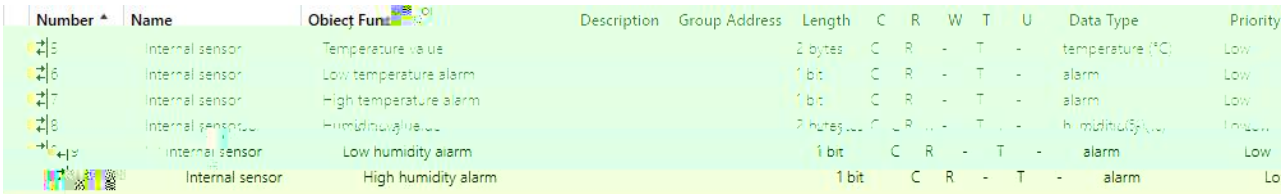
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1	General	In operation			1 bit	C	R	-	T	-	switch	Low
2	General	Date			3 bytes	C	-	W	-	-	date	Low
3	General	Time			3 bytes	C	-	W	-	-	time of day	Low
4	General	Screen brightness			1 byte	C	-	W	-	-	percentage (0..100%)	Low

6.1 “General”□□

□	□	□	□		**DPT**
1	**General**	**In operation**	**1bit**	**C,R,T**	**1.001 switch**
□□□ □ 1 □ □□ □□ □□ k					
2/3	**General**	**Date/Time**	**3byte**	**C,W,T**	**11.001 date** **10.001 time of day**
□□□ □ □□ □ □ k □ □ □ □ □ □ □ □ □ □ k □ □ □□□ □ □ □ □ k					
4	**General**	**Screen brightness**	**1byte**	**C,W**	**5.001 percentage(0..100%)**
□□□ □ □□ k □ □ □10~100%□ 10% □□ □ 10% k “Screen brightness can be changed via bus” □ □ □ k □ □ □□□ □ □ □□ □ □ □ k					

□ 6.1 “General”□□

6.2 “Internal sensor”□ □



6.2 “Internal sensor”□ □

□	□	□	□		DPT
5	**Internal sensor**	**Temperature value**	**2byte**	**C,R,T**	**9.001 temperature**
□ □ □ □ □ □ □ □ □ k □ □-50~99.8℃					
6	**Internal sensor**	**Low temperature alarm**	**1bit**	**C,R,T**	**1.005 alarm**
□ □ □ □ □ □ □ □ □ □ □ □ □ □					
7	**Internal sensor**	**High temperature alarm**	**1bit**	**C,R,T**	**1.005 alarm**
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ k					
10	**Internal sensor**	**Humidity value**	**2byte**	**C,R,T**	**9.007 humidity**
□ □ □ □ □ □ □ □ k □ □0~100%					
11	**Internal sensor**	**Low humidity alarm**	**1bit**	**C,R,T**	**1.005 alarm**
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ k					
12	**Internal sensor**	**High humidity alarm**	**1bit**	**C,R,T**	**1.005 alarm**
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ k					

□ 6.2 “Internal sensor”□ □

6.3 ”Logic”□ □

6.3.1 “AND/OR/XOR”□ □ □

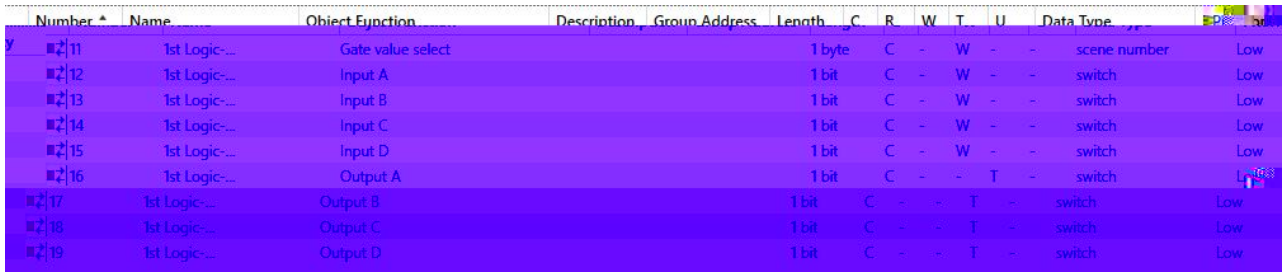
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic-...	Input a			1 bit	C	-	W	T	U	boolean	Low
12	1st Logic-...	Input b			1 bit	C	-	W	T	U	boolean	Low
13	1st Logic-...	Input c			1 bit	C	-	W	T	U	boolean	Low
14	1st Logic-...	Input d			1 bit	C	-	W	T	U	boolean	Low
15	1st Logic-...	Input e			1 bit	C	-	W	T	U	boolean	Low
16	1st Logic-...	Input f			1 bit	C	-	W	T	U	boolean	Low
17	1st Logic-...	Input g			1 bit	C	-	W	T	U	boolean	Low
18	1st Logic-...	Input h			1 bit	C	-	W	T	U	boolean	Low
19	1st Logic-...	Logic result			1 bit	C	-	-	T	-	boolean	Low

6.3.1 “AND/OR/XOR”□ □ □

□	□	□	□		**DPT**
11/.../18	**1st Logic- {{...}}**	**Input X**	**1 bit**	**C,W,T,U**	**1.002 boolean**
□ □ □ “Description for logic function” □ □ □ □ □ □ □ **“1st Logic-{{...}}”** k k □ □ □ □ □ □ □ Input x □ k					
19	**1st Logic- {{...}}**	**Logic result**	**1 bit**	**C,T**	**1.002 boolean**
□ □ □ □ □ □ □ □ □ □ □ k					

□ 6.3.1 “AND/OR/XOR”□ □ □

6.3.2 “Gate forwarding”□ □ □



6.3.2 “Gate forwarding”□ □ □

□	□	□	□		DTP
11	**1st Logic- {{...}}**	**Gate value select**	**1byte**	**C,W**	**17.001 scene number**
□ □ □ □ □ □ □ □ □ □ k					
12/.../15	**1st Logic- {{...}}**	**Input X**	**1bit/4bit/1byte**	**C,W**	**1.001 switch 3.007 dimming 5.010 counter**
□ □ □ □ □ □ □ □ □ Input x □ k					
16/.../19	**1st Logic- {{...}}**	**Output X**	**1bit/4bit/1byte**	**C,T**	**1.001 switch 3.007 dimming 5.010 counter**
□ □ □ □ □ □ □ □ □ □ □ k □ □ □ □ □ □ □ □ □ □ □ □ k					

□ 6.3.2 “Gate forwarding”□ □ □

6.3.3 “Threshold comparator” □ □ □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic-...	Threshold value input			1 byte	C	-	W	-	U	counter pulses (0..255)	Low
19	1st Logic-...	ogic result			1 bit	C	-	-	T	-	boolean	Low

6.3.3 “Threshold comparator” □ □ □

□	□	□	□		DTP
11	**1st Logic- {{...}}**	**Threshold value input**	**4bit** **1byte** **2byte** **4byte**	**C,W,U**	**3.007 dimming** **5.010 counter pulses** **7.001 pulses** **12.001 counter pulses** **8.x signed value** **9.x float value** **9.001 temperature** **9.007 humidity** **9.004 lux**
19	**1st Logic- {{...}}**	**Logic result**	**1bit**	**C,T**	**1.002 boolean**

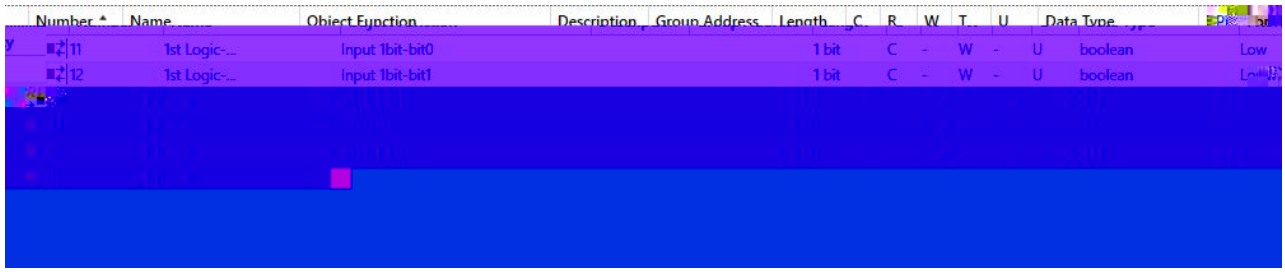
□ □ □ □ □ □ □ k

□ □ □ □ □ □ □ □ □ □

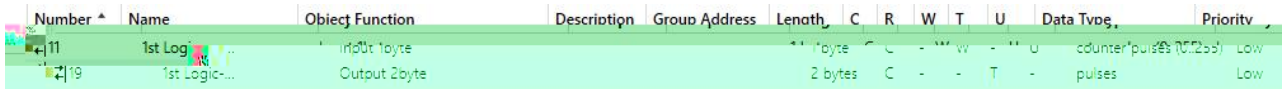
6.3.4 “Format convert”□ □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic-...	Input 1bit-bit0			1 bit	C	-	W	-	U	boolean	Low
12	1st Logic-...	Input 1bit-bit1			1 bit	C	-	W	-	U	boolean	Low
19	1st Logic-...	Output 2bit			2 bit	C	-	-	T	-	switch control	Low

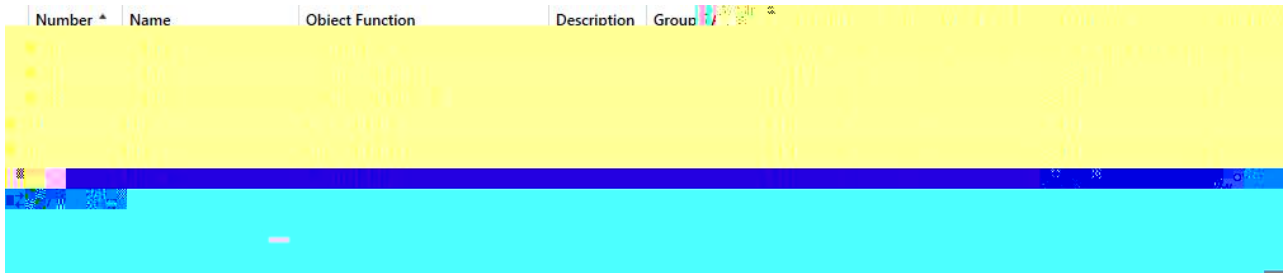
“2x1bit --> 1x2bit” □ □ 2 1bit □ 2bit □ Input bit1=1, bit0=0--> Output 2bit=2



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



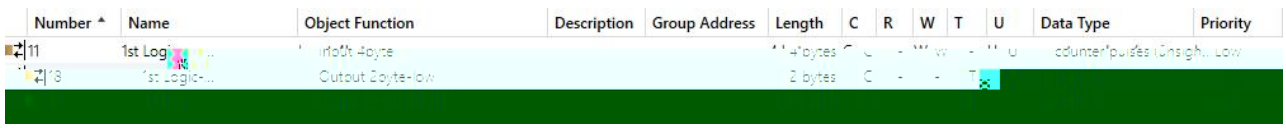
“1x1byte --> 1x2byte” □ □ 1byte □ 2byte □ Input



“1x1byte --> 8x1bit” □□ 1 1byte □ 8 1bit □ Input 1byte=200 --> Output bit0=0, bit1=0, bit2=0, bit3=1, bit4=0, bit5=0, bit6=1, bit7=1

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
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)

Number	Name	Object Function	Description	Group Address	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)

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic-...	Input 1byte-low			1 byte	C	-	W	-	U	counter pulses (0..255)	Low
12	1st Logic-...	Input 1byte-middle			1 byte	C	-	W	-	U	counter pulses (0..255)	Low
13	1st Logic-...	Input 1byte-high			1 byte	C	-	W	-	U	counter pulses (0..255)	Low
19	1st Logic-...	Output 3byte			3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low

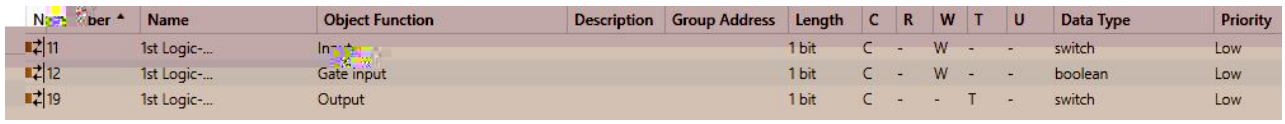
“3x1byte --> 1x3byte” □□ 3 1byte □ 1 3byte □ Input 1byte-low = 150 ($96), Input 1byte-middle = 100 ($64), Input 1byte-high = 50 ($32)--> Output 3byte = $32 64 96

6.3.4 “Format convert”□ □ □

□	□	□	□		DTP
11	1st Logic- {{...}}	Input ...	1bit 1byte 2byte 3byte 4byte	C,W,U	1.002 boolean 5.010 counter pulses 7.001 pulses 12.001 counter pulses 232.600 RGB value 3x(0..255)
□ □ □ □ □ □ □ □ □ □ k					
19	1st Logic- {{...}}	Output ...	1bit 2bit 1byte 2byte 3byte 4byte	C,T	1.002 boolean 2.001 switch control 5.010 counter pulses 7.001 pulses 12.001 counter pulses 232.600 RGB value 3x(0..255)
□ □ □ □ □ □ □ □ □ □ k					

□ 6.3.4 “Format convert” □ □ □

6.3.5 “Gate function”□ □



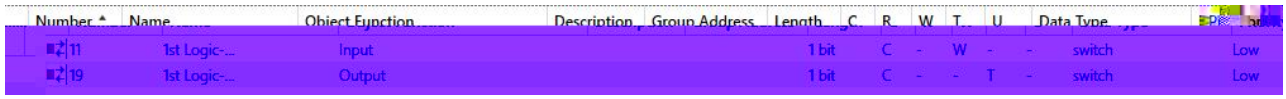
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic-...	In[illegible]			1 bit	C	-	W	-	-	switch	Low
12	1st Logic-...	Gate input			1 bit	C	-	W	-	-	boolean	Low
19	1st Logic-...	Output			1 bit	C	-	-	T	-	switch	Low

6.3.5 “Gate function”□ □ □

□	□	□	□		DTP
11	**1st Logic- {{...}}**	**Input**	**1bit** **1byte** **2byte**	**C,W**	**1.001 switch** **5.001 percentage** **5.010 counter pulses** **9.001 temperature** **7.001 pulses**
□ □ □ □ □ □ □ □ □ □ □ □ □ □ k					
12	**1st Logic- {{...}}**	**Gate input**	**1bit**	**C,W**	**1.002 boolean**
□ □ □ □ □ □ □ k □ □ □ □ □ □ □ □ □ □ □ □ k					
19	**1st Logic- {{...}}**	**Output**	**1bit** **1byte** **2byte**	**C,T**	**1.001 switch** **5.001 percentage** **5.010 counter pulses** **9.001 temperature** **7.001 pulses**
□ □ □ □ □ □ □ □ □ k □ □ □ □ □ □ “Gate input” k					

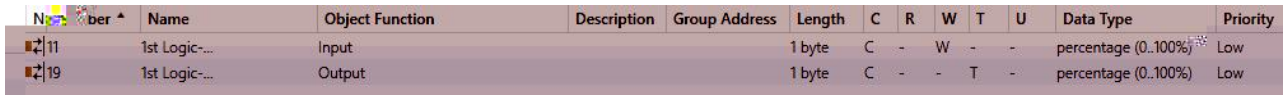
□ 6.3.5 “Gate function”□ □ □

6.3.6 “Delay function”□ □



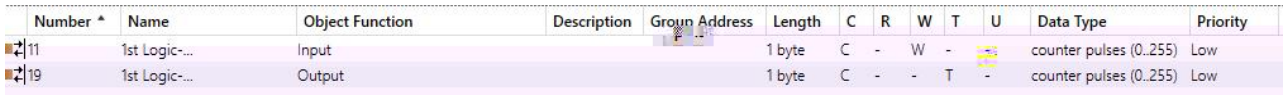
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic-...	Input			1 bit	C	-	W	-	-	switch	Low
19	1st Logic-...	Output			1 bit	C	-	-	T	-	switch	Low

Input/Output - 1bit[On/Off]



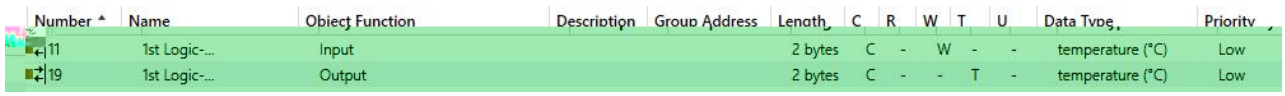
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic-...	Input			1 byte	C	-	W	-	-	percentage (0..100%)	Low
19	1st Logic-...	Output			1 byte	C	-	-	T	-	percentage (0..100%)	Low

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



Number	Name	Object Function	Description	Group Address	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]



Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic-...	Input			2 bytes	C	-	W	-	-	temperature (°C)	Low
19	1st Logic-...	Output			2 bytes	C	-	-	T	-	temperature (°C)	Low

Input/Output - 2byte[Float]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority

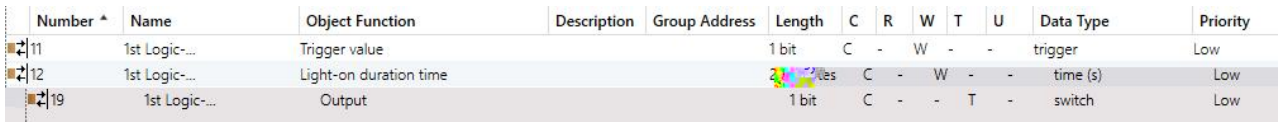
Input/Output - 2byte[0..65535]

6.3.6 ”Delay function”□ □

□	□	□	□		DTP
11	**1st Logic- {{...}}**	**Input**	**1bit** **1byte** **2byte**	**C,W**	**1.001 switch** **5.001 percentage** **5.010 counter pulses** **9.001 temperature** **7.001 pulses**
□ □ □ □ □ □ □ □ k					
19	**1st Logic- {{...}}**	**Output**	**1bit** **1byte** **2byte**	**C,T**	**1.001 switch** **5.001 percentage** **5.010 counter pulses** **9.001 temperature** **7.001 pulses**
□ □ □ □ □ □ □ □ □ □ □ □ □ k					

□ 6.3.6 ”Delay function”□ □

6.3.7 “Staircase lighting”□ □



Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
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

6.3.7 “Staircase lighting”□ □

□	□	□	□		DTP
11	**1st Logic- {{...}}**	**Trigger value**	**1bit**	**C,W**	**1.017 trigger**
□ □ □ □ □ □ □ □ k					
12	**1st Logic- {{...}}**	**Light-on duration time**	**2byte**	**C,W**	**7.005 time(s)**
□ □ □ □ □ □ □ □ □ □ □ □ □ k					
19	**1st Logic- {{...}}**	**Output**	**1bit/1byte**	**C,T**	**1.001 switch** **5.010 counter pulses**
□ □ □ □ □ □ k □ □ □ □ k					

□ 6.3.7 “Staircase lighting”□ □

6.4 ”Scene Group setting”□ □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
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

1 bit value

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
83	Scene Group	Main scene trigger			1 byte	C	-	W	-	-	scene number	Low
84	1st Scene Group-Output 1	1byte unsigned value			1 byte	C	-	-	T	-	counter pulses (0..255)	Low

1 byte

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
83	Scene Group	Main scene trigger			1 byte	C	-	W	-	-	scene number	Low
84	1st Scene Group-Output 1	HVAC mode			1 byte	C	-	-	T	-	HVAC mode	Low

HVAC mode

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
83	Scene Group	Main scene trigger			1 byte	C	-	W	-	-	scene number	Low
84	1st Scene Group-Output 1	2byte unsigned value			2 bytes	C	-	-	T	-	pulses	Low

2byte unsigned value

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
83	Scene Group	Main scene trigger			1 byte	C	-	W	-	-	scene number	Low
	1st Scene Group-Output 1	Temperature			2 bytes	C	-	-	T	-	temperature (°C)	Low

Temperature

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
83	Scene Group	Main scene trigger			1 byte	C	-	W	-	-	scene number	Low
84	1st Scene Group-Output 1	RGB value			3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low

RGB value

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
83	Scene Group											

RGBW value

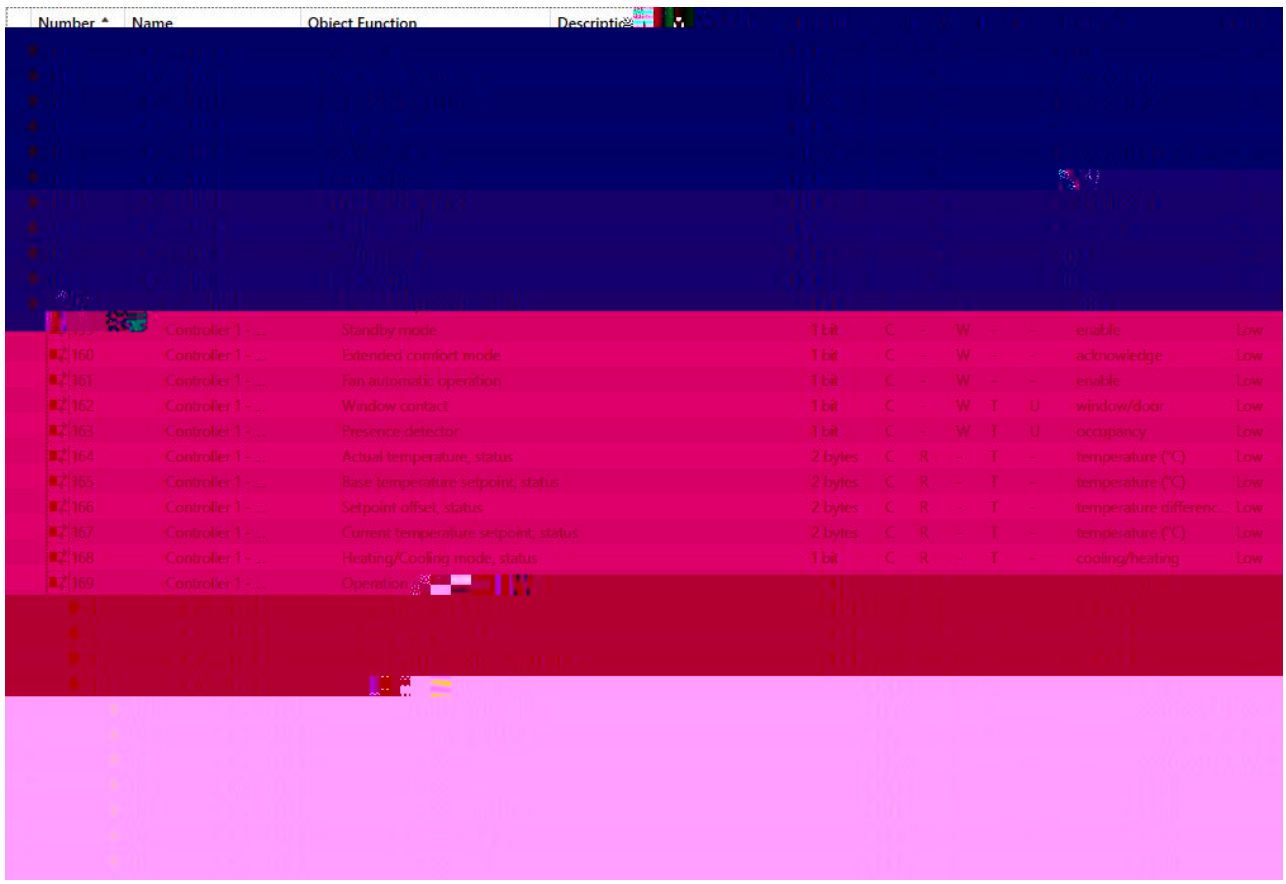
6.4 “Scene Group setting”□ □

□	□	□	□		DPT
83	**Scene Group**	**Main scene trigger**	**1byte**	**C,W**	**17.001 scene number**
□□□ □□□□ □ □ □ □ □ □ □ □ k □0..63					
84	**1st Scene Group-{{Output X}}**	**1bit value** **1byte unsigned value** **HVAC mode** **2byte unsigned value** **Temperature** **RGB value** **RGBW value**	**1bit** **1byte** **2byte** **3byte** **6byte**	**C,T**	**1.001 switch** **5.010 counter pulses** **20.102 HVAC mode** **7.001 pulses** **9.001 temperature** **232.600 RGB value** **3x(0..255)** **251.600 DPT_Colour_RGBW**
□□□ □ □□ □ □ □ □ k □□ □□ □ k □□8 □□ □8 □ k					

□ 6.4 “Scene Group setting”□□

6.5 ”HVAC controller”□ □

6.5.1 “Room temperature controller (RTC) ”□ □



6.5.1 “Room temperature controller(RTC)”□ □

□	□	□	□	DPT
148	**Controller X-{{...}}**	**Power on/off**	**1bit**	**C,W,R**	**1.001 switch**

□ □ □ □ □ □ k □

1——

0——

□ □ □ “Description (max 30char.)” □ □ □ □ □ □ □“Controller X - ...” k k

149	**Controller X-{{...}}**	**External temperature sensor**	**2byte**	**C,W,T,U**	**9.001 temperature**

□ □ □ □ □ □ □ □ k □ □-50~99.8°C

150	**Controller X-{{...}}**	**Current setm**	**t**

152	**Controller X-{{...}}**	**Float offset value**	**2byte**	**C,W**	**9.002 temperature difference**
□ □ , □ □ □ □ k □ □ 2byte □ □ □ □ □					
153	**Controller X-{{...}}**	**Setpoint offset reset**	**1bit**	**C,W**	**1.015 reset**
□ □ □ □ □ □ □ □ □ □ k 1 □ □ □ k					
154	**Controller X-{{...}}**	**Heating/Cooling mode**	**1bit**	**C,W**	**1.100 cooling/heating**
□ □ □ □ □ □ □ □ k □ 1 ˚ □ 0 ˚					
155	**Controller X-{{...}}**	**Operation mode**	**1byte**	**C,W**	**20.102 HVAC mode**
156	**Controller X-{{...}}**	**Comfort mode**	**1bit**	**C,W**	**1.003 enable**
157	**Controller X-{{...}}**	**Economy mode**	**1bit**	**C,W**	**1.003 enable**
158	**Controller X-{{...}}**	**Frost/Heat protection mode**	**1bit**	**C,W**	**1.003 enable**
159	**Controller X-{{...}}**	**Standby mode**	**1bit**	**C,W**	**1.003 enable**
□ □ □ □ □ □ □ □ □ k 1byte □ 155 □ □ □ 1-□ □ □ 2- □ 3-□ □ □ 4- □ □ k 1bit □ 156 ˚ □ □ 157 ˚ □ □ 158 ˚ 159 ˚ “1” □ □ □ k 1bit □ □ □ □ ! □ □ □ □ 0 □ k 1bit □ □ “1” □ 0 □ k					

160	**Controller X-{{...}}**	**Extended comfort mode**	**1bit**	**C,W**	**1.016 acknowledge**
□ □ □ □ □ □ □ □ □ □ □ k □ 1 ˚ □ □ □ 0 ˚ 1 □ □ □ □ □ □ □ □ 1 □ □ □ □ □ □ □ □ □ □ k □ □ □ □ □ □ □ k □ □ □ □/ k					
161	**Controller X-{{...}}**	**Fan automatic operation**	**1bit**	**C,W**	**1.003 enable**
□ □ □ □ □ □ □ □ □ □ k □ 1 ˚ □ □ 0 ˚ □ □					
162	**Controller X-{{...}}**	**Window contact**	**1bit**	**C,W,T,U**	**1.019 Window/door**
□ □ □ □ □ □ □ □ □ □ k □ 1 ˚ □ 0 ˚ □ □					
163	**Controller X-{{...}}**	**Presence detector**	**1bit**	**C,W,T,U**	**1.018 occupancy**
□ □ □ □ □ □ □ k □ 1 ˚ 0 ˚					
164	**Controller X-{{...}}**	**Actual temperature, status**	**2byte**	**C,R,T**	**9.001 temperature**
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ k □ □ □ □ □ k					
165	**Controller X-{{...}}**	**Base temperature setpoint,**	**2byte**	**C,R,T**	**9.001 temperature**

		status			
□ □ □ □ □ □ □ k □ □ □ □ k					
166	**Controller X-{{...}}**	**Setpoint offset, status**	**2byte**	**C,R,T**	**9.002 temperature difference**
□ □ □ □ □ □ □ □ □ □ k □ □ □ □ □ □ □ □ □ k					
167	**Controller X-{{...}}**	**Current temperature setpoint, status**	**2byte**	**C,R,T**	**9.001 temperature**
□ □ □ □ □ □ □ □ □ k					
168	**Controller X-{{...}}**	**Heating/Cooling mode, status**	**1bit**	**C,R,T**	**1.100 cooling/heating**
□ □ □ □ □ □ □ □ □ k					
169	**Controller X-{{...}}**	**Operation mode, status**	**1byte**	**C,R,T**	**20.102 HVAC mode**
170	**Controller X-{{...}}**	**Comfort mode, status**	**1bit**	**C,R,T**	**1.003 enable**
171	**Controller X-{{...}}**	**Economy mode, status**	**1bit**	**C,R,T**	**1.003 enable**
172	**Controller X-{{...}}**	**Frost/Heat protection mode, status**	**1bit**	**C,R,T**	**1.003 enable**
173	**Controller X-{{...}}**	**Standby mode, status**	**1bit**	**C,R,T**	**1.003 enable**

□ □ □ □ □ □ □ □ k

1byte □ 169 □ □ □ 1-□ □ □ 2- □ 3-□ □ □ 4- □ □ k

1bit □

170 □ □

171 □ □

172 □

173 ˚

□ □ □ □ “1” k 1bit □ □□ □□□ ! □

□ □ 0 k 1bit □ □□ □ 1 k

□□□ □ □ □□ □ □ □□□□ k

174	**Controller X-{{...}}**	**Heating control value** **Heating/Cooling control value**	**1bit/1byte**	**C,R,T**	**1.001 switch/5.001 percentage**
175	**Controller X-{{...}}**	**Cooling control value**	**1bit/1byte**	**C,R,T**	**1.001 switch/5.001 percentage**

□□□ □ □□ □ k □ □ □ □ k

176	**Controller X-{{...}}**	**Fan speed**	**1byte**	**C,T**	**5.001 percentage** **5.100 fan stage**
177	**Controller X-{{...}}**	**Fan speed low**	**1bit**	**C,T**	**1.001 switch**
178	**Controller X-{{...}}**	**Fan speed medium**	**1bit**	**C,T**	**1.001 switch**
179	**Controller X-{{...}}**	**Fan speed high**	**1bit**	**C,T**	**1.001 switch**
180	**Controller X-{{...}}**	**Fan speed off**	**1bit**	**C,T**	**1.001 switch**

□ □□ □ □ □□□ □ k

1bit □□ □□

177 ˚ □□

178 ˚ □□

179 ˚ □□□

180 ˚ □□

□□ □ □ “1” k 1bit-off □ □ □□ □

“0”□ □ GVS □□ □ □□

1bit-off □ □ □□ □ □□ “1”□□ □□ □

□ k

181	**Controller X-{{...}}**	**Additional heating control value** **Additional heating/cooling control value**	**1bit/1byte**	**C,R,T**	**1.001 switch/5.001 percentage**
182	**Controller X-{{...}}**	**Additional cooling control value**	**1bit/1byte**	**C,R,T**	**1.001 switch/5.001 percentage**

□ □□ □ □ □□□ k

1bit□ □□ 1□ □□□ 0

1byte□ □□ 100%□ □□□ 0%

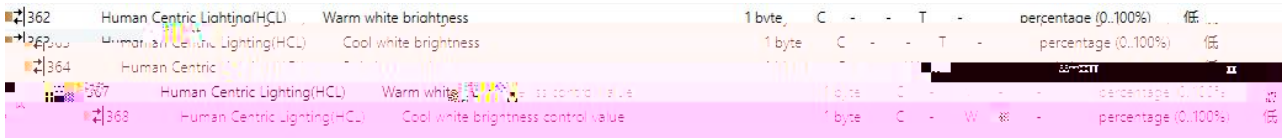
□ 6.5.1 “Room temperature controller(RTC)”□□

6.5.2 “Ventilation controller” □ □

6.6 ”Human Centric Lighting(HCL)”□ □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
358	Human Centric Lighting(...	Start HCL			1 bit	C	-	W	-	-	start/stop	Low
359	Human Centric Lighting(...	HCL status			1 bit	C	R	-	T	-	state	Low
360	Human Centric Lighting(...	Brightness value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
361	Human Centric Lighting(...	Colour temperature value			2 bytes	C	-	-	T	-	absolute colour tempe...	Low
364	Human Centric Lighting(...	Switch control			1 bit	C	-	W	-	-	switch	Low
365	Human Centric Lighting(...	Brightness control value			1 byte	C	-	W	-	-	percentage (0..100%)	Low

Normal



Directly(with warm/cool white algorithm)

6.6 ”Human Centric Lighting(HCL)”□ □

□	□	□	□		DPT
358	**Human Centric Lighting(HCL)**	**Start HCL**	**1bit**	**C,W**	**1.010 start/stop**
□ □ □ □ □ HCL □ □ □ k □ 1—— 0——					
359	**Human Centric Lighting(HCL)**	**HCL status**	**1bit**	**C,R,T**	**1.011 state**
□ □ □ □ HCL □ □ □ k					
360	**Human Centric Lighting(HCL)**	**Brightness value**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
365	**Human Centric Lighting(HCL)**	**Brightness control value**	**1byte**	**C,W**	**5.001 percentage(0..100%)**

□ □ HCL □ □ □ □ □ k □0…100%

Obj.360□ □ □ □ □ k

Obj.365□ □ □ □ k

361	**Human Centric Lighting(HCL)**	**Colour temperature value**	**2byte**	**C,T**	**7.600 absolute colour temperature**
366	**Human Centric Lighting(HCL)**	**Colour temperature control value**	**2byte**	**C,W**	**7.600 absolute colour temperature**

□ □ □ □ □ □ □ □ □ □ k □2000...7000 K

Obj.361□ □ □ □ HCL □ □ □ k

Obj.366□ □ □ □ □ □ k

362	**Human Centric Lighting(HCL)**	**Warm white brightness**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
367	**Human Centric Lighting(HCL)**	**Warm white brightness control value**	**1byte**	**C,W**	**5.001 percentage(0..100%)**

□ □ □ □ □ □ □ □ □ □ k □0…100%

Obj.362□ □ □ □ □ □ □ k

Obj.367□ □ □ □ □ □ □ k

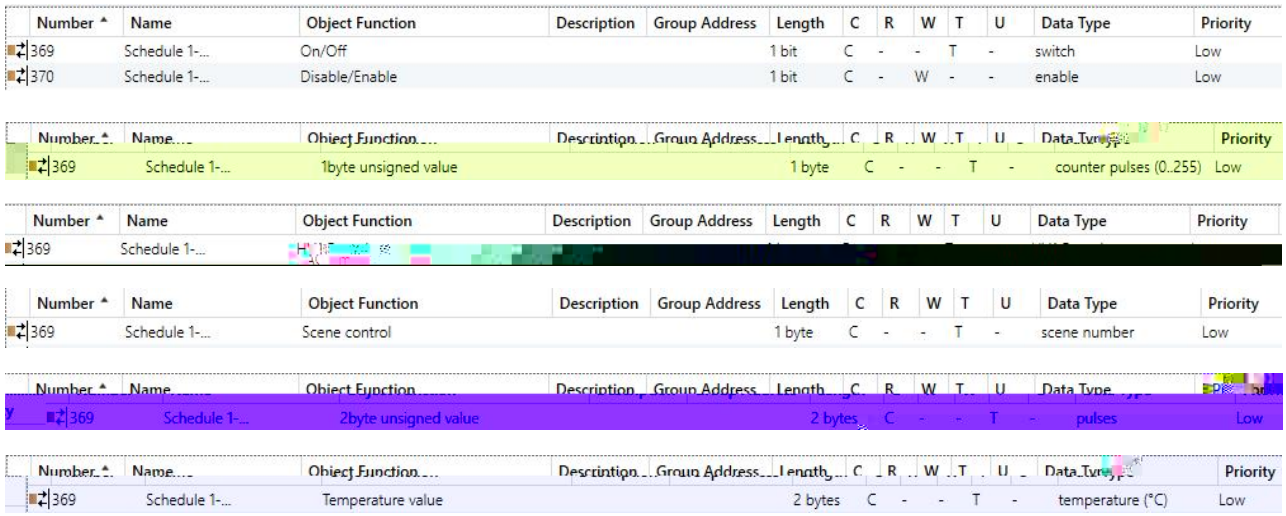
363	**Human Centric Lighting(HCL)**	**Cool white brightness**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
368	**Human Centric Lighting(HCL)**	**Cool white brightness control value**	**1byte**	**C,W**	**5.001 percentage(0..100%)**

□ □ □ □ □ □ □ □ □ □ k □0…100%

Obj.363□□ □□ □ □ □ k Obj.368□□ □ □ □ □ k					
364	**Human Centric Lighting(HCL)**	**Switch control**	**1bit**	**C,W**	**1.001 switch**
HCL □□ □ □ OFF □ HCL □□□ □□□ □ k 0 □1 k					

□ 6.6 ”Human Centric Lighting(HCL)”□□

6.7 “Schedule function”□ □

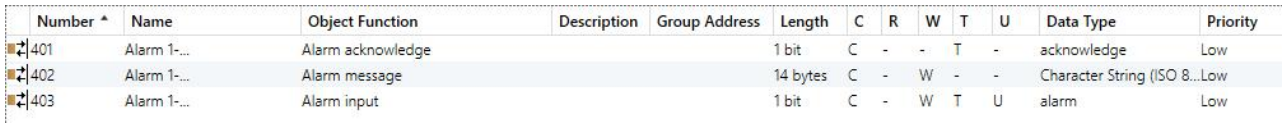


6.7 “Schedule function”□ □

□	□	□	□		DPT
369	**Schedule X-{{...}}**	**On/Off** **1byte unsigned value** **HVAC mode** **Scene control** **2byte unsigned value** **Temperature value**	**1bit** **1byte** **1byte** **1byte** **2byte** **2byte**	**C,T**	**1.001 switch** **5.010 counter pulses(0..255)** **20.102 HVAC mode** **17.001 scene number** **7.001 pulses** **9.001 temperature**
□ □ □ □ □ □ □ □ □ □ □ ! □ □ □ □ □ □ k □ □ □ □ □ k □ □ 16 k					
370	**Schedule X-{{...}}**	**Disable/Enable**	**1bit**	**C,W**	**1.003 enable**
□ □ □ □ □ ŕ / □ □ k ŕ / □ □ □ □ □ k ŕ □ □ □ k					

□ 6.7 “Schedule function”□ □

6.8 “Alarm function”□ □



Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
401	Alarm 1-...	Alarm acknowledge			1 bit	C	-	-	T	-	acknowledge	Low
402	Alarm 1-...	Alarm message			14 bytes	C	-	W	-	-	Character String (ISO 8...	Low
403	Alarm 1-...	Alarm input			1 bit	C	-	W	T	U	alarm	Low

6.8 “Alarm function”□ □

□	□	□	□		DPT
401	**Alarm X-{{...}}**	**Alarm acknowledge**	**1bit**	**C,T**	**1.016 acknowledge**
□ □ □ □ □ □ □ □ □ □ 1 □ k					
402	**Alarm X-{{...}}**	**Alarm message**	**14byte**	**C,W**	**16.001 character string (ISO 8859-1)**
□ □ □ □ □ □ □ □ □ □ k □ □ □ □ k					
403	**Alarm X-{{...}}**	**Alarm input**	**1bit**	**C,W,T,U**	**1.005 alarm**
□ □ □ □ □ □ □ k □ 0 ˚ ˚ □ □ □ 1 ˚ ˚ □					

□ 6.8 “Alarm function”□ □

6.9 “KNX Channel general”□ □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
473	KNX Channel general	Device online common 1, status			1 bit	C	-	W	T	U	switch	Low

6.9 “KNX Channel general”□ □

□	□	□	□		DPT
473...482	**KNX Channel general**	**Device online common X, status**	**1bit**	**C,W,T,U**	**1.* 1-bit**
Time period request for common x □ □>0 □ k □ k					

□ 6.9 “KNX Channel general”□ □

6.10 “KNX Channel X”□ □

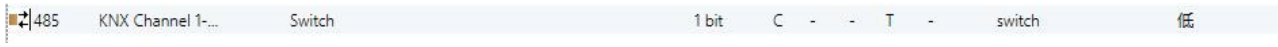
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low

6.10 “KNX Channel X”□ □

□	□	□	□		DPT
483	**KNX Channel X-{{...}}**	**Device online, status**	**1bit**	**C,W,T,U**	**1.001 switch**
	□ □ □ □ □ □ □ □ k				
	□ □ □ □ □ □ □ □ □ □ □ □ □ □ k				
484	**KNX Channel X-{{...}}**	**Locking object**	**1bit**	**C,W**	**1.003 enable**
	□ □ □ □ □ ! □ □ □ □ k				
	□ □ □ /□ □ □ □1-□ □ □0-□ k				

6.10.1 “Switch”□ □

Switch



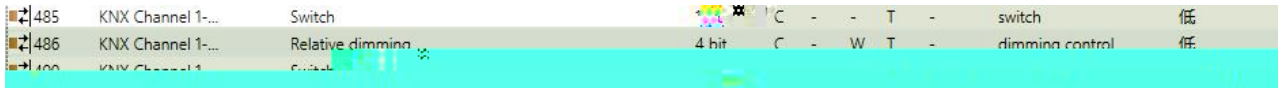
Press/Release switch

6.10.1”Switch”□ □

□	□	□	□		DPT
485	**KNX Channel X-{{...}}**	**Switch**	**1bit**	**C,T**	**1.001 switch**
□ □ □ □ / □ □ □ □ ! / ! /□ □ ! +□ □ □ □ k □ 1ˆ ˆ □ 0ˆ ˆ □					
490	**KNX Channel X-{{...}}**	**Switch, status**	**1bit**	**C,W,T,U**	**1.001 switch** **3.007 dimming**
□ □ □ □ □ □ □ / □ □ □ □ □ □ ! /□ □ ! +□ □ □ □ ! □ k					

□ 6.10.1”Switch”□ □

6.10.2 ”Dimming”□ □



Relative dimming

Brightness dimming

Relative&Brightness dimming

6.10.2 “Dimming”□ □

□	□	□	□		DPT
486	**KNX Channel X-{{...}}**	**Relative dimming**	**4bit**	**C,W,T**	**3.007 dimming control**
□ □ □ □ □ □ □ k □ □ □ □ □ □ □/ □/ □ k					
487	**KNX Channel X-{{...}}**	**Brightness dimming**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
491	**KNX Channel X-{{...}}**	**Brightness, status**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
□ □ □ □ □ □ □ k □0..100% Obj.487□ □ □ □ □ k Obj.491□ □ □ □ □ □ k					

□ 6.10.2 “Dimming”□ □

6.10.3 ”Colour and colour temperature control” □ □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Switch			1 bit	C	-	-	T	-	switch	Low
486	KNX Channel 1-...	Red dimming value			1 byte	C	-	-	T	-	percentage (0..100%)	Low

RGB_3x1byte

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Switch			1 bit	C	-	-	T	-	switch	Low
486	KNX Channel 1-...	RGB dimming value			3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low
490	KNX Channel 1-...	Switch, status			1 bit	C	-	W	T	U	switch	Low
491	KNX Channel 1-...	RGB brightness, status			3 bytes	C	-	W	T	U	RGB value 3x(0..255)	Low

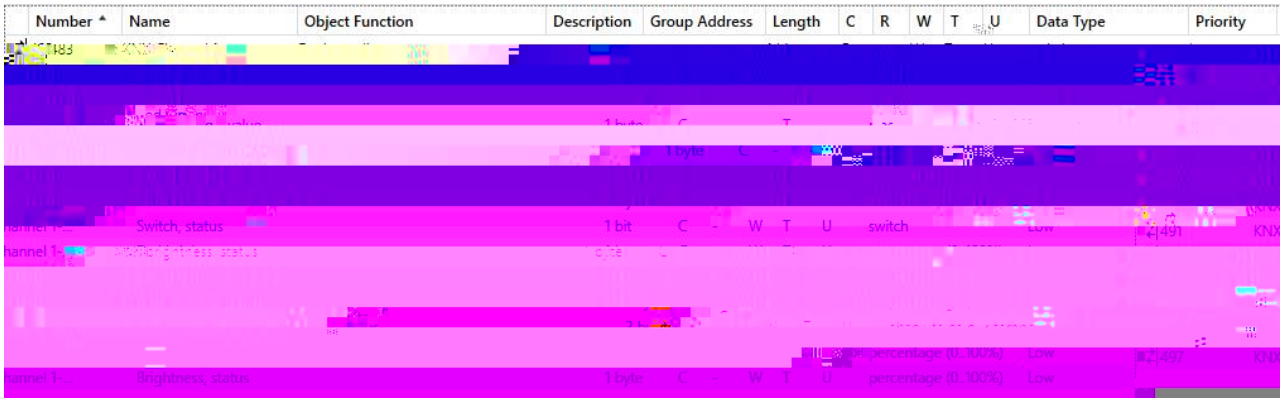
RGB_1x3byte

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low

RGBW_4x1byte

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Switch			1 bit	C	-	-	T	-	switch	Low
486	KNX Channel 1-...	RGBW dimming value			6 bytes	C	-	-	T	-	RGBW value 4x(0..100%)	Low
490	KNX Channel 1-...	Switch, status			1 bit	C	-	W	T	U	switch	Low
491	KNX Channel 1-...	RGBW brightness, status			6 bytes	C	-	W	T	U	RGBW value 4x(0..100%)	Low

RGBW_1x6byte



RGBCW_3x1byte_Normal

RGBCW_3x1byte_Normal_Directly(..) &Brightness+Colour Temperature

RGBCW_3x1byte_Normal_Directly(..) &Warm/Cool white brightness

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Switch			1 bit	C	-	-	T	-	switch	Low
486	KNX Channel 1-...	RGB dimming value			3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low
489	KNX Channel 1-...	Absolute colour temperature			2 bytes	C	-	-	T	-	absolute colour tempe...	Low
490	KNX Channel 1-...	Switch, status			1 bit	C	-	W	T	U	switch	Low
491	KNX Channel 1-...	RGB brightness, status			3 bytes	C	-	W	T	U	RGB value 3x(0..255)	Low
494	KNX Channel 1-...	Absolute colour temperature, stat										

RGBCW_1x3byte_Normal

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Switch			1 bit	C	-	-	T	-	switch	Low
486	KNX Channel 1-...	RGB dimming value			3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low
490	KNX Channel 1-...	Switch, status			1 bit	C	-	W	T	U	switch	Low
491	KNX Channel 1-...	RGB brightness, status			3 bytes	C	-	W	T	U	RGB value 3x(0..255)	Low
494	KNX Channel 1-...	Absolute colour temperature, status			2 bytes	C	-	W	T	U	absolute colour tempe...	Low
495	KNX Channel 1-...	Warm white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
496	KNX Channel 1-...	Cool white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
497	KNX Channel 1-...	Brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

RGBCW_1x3byte_Directly(..) &Brightness+Colour Temperature

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Switch			1 bit	C	-	-	T	-	switch	Low
486	KNX Channel 1-...	RGB dimming value			3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low
490	KNX Channel 1-...	Switch, status			1 bit	C	-	W	T	U	switch	Low
491	KNX Channel 1-...	RGB brightness, status			3 bytes	C	-	W	T	U	RGB value 3x(0..255)	Low
495	KNX Channel 1-...	Warm white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
496	KNX Channel 1-...	Cool white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
497	KNX Channel 1-...	Warm white brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
498	KNX Channel 1-...	Cool white brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

RGBCW_1x3byte_Directly(..) &Warm/Cool white brightness

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Switch			1 bit	C	-	-	T	-	switch	Low
490	KNX Channel 1-...	Switch, status			1 bit	C	-	W	T	U	switch	Low
494	KNX Channel 1-...	Absolute colour temperature, status			2 bytes	C	-	W	T	U	absolute colour tempe...	Low
495	KNX Channel 1-...	Warm white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
496	KNX Channel 1-...	Cool white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
497	KNX Channel 1-...	Brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
495	KNX Channel 1-...	Warm white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	低
496	KNX Channel 1-...	Cool white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	低
497	KNX Channel 1-...	Warm white brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	低
498	KNX Channel 1-...	Cool white brightness			1 byte	C	-	W	T	U	percentage (0..100%)	低

Colour temperature dimming

6.10.3 “Colour and colour temperature control”□ □

□	□	□	□		DPT
486	**KNX Channel X-{{...}}**	**RGB dimming value**	**3byte**	**C,T**	**232.600 RGB value 3x(0..255)**
491	**KNX Channel X-{{...}}**	**RGB brightness, status**	**3byte**	**C,W,T,U**	**232.600 RGB value 3x(0..255)**

□ □□ RGB □ □ 1x3byte □ RGBCW □ □ 1x3byte □□□□

□□□ k

Obj.486□□ RGB □□□ □ k

Obj.491□□ □ RGB □□□ □ k

3 □□ RGB □ □ □□□□ U8 U8 U8□□ □

3_{MSB}	2	1_{LSB}
R	G	B
UUUUUUUU	UUUUUUUU	UUUUUUUU

R: □□□ □G: □□□ □B: □□□ k

486	**KNX Channel X-{{...}}**	**RGBW dimming value**	**6byte**	**C,T**	**251.600 DPT_Colour_RGBW**
491	**KNX Channel X-{{...}}**	**RGBW brightness, status**	**6byte**	**C,W,T,U**	**251.600 DPT_Colour_RGBW**

□ □□ RGBW □ □ 1x6byte □□□□ □□□ k

Obj.486□□ RGBW □□□ □ k

Obj.491□□ □ RGBW □□□ □ k

6 □□ RGBW □ □ □□□□ U8 U8 U8 U8 R8 R4 B4□□ □

6MSB	5	4	3	2	1LSB
R	G	B	W	□	r r r r mR mG mB mW
UUUUUUUU	UUUUUUUU	UUUUUUUU	UUUUUUUU	0000000 0	0000BBBB

R: □ □ □ □G: □ □ □ □B: □ □ □ □W: □ □ □ □

mR: □ □ □ □ , 0= , 1= □

mG: □ □ □ □ , 0= , 1= □

mB: □ □ □ □ , 0= , 1= □

mW: □ □ □ □ , 0= , 1= k

486	**KNX Channel X-{{...}}**	**Red dimming value**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
491	**KNX Channel X-{{...}}**	**Red brightness, status**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

□ □ □ RGB □ □ 3x1byte RGBW □ □ 4x1byte □ □ □ □ □ □

k □0…100%

Obj.486□ □ R (□ □)□ □ □ □ k

Obj.491□ □ □ R (□ □)□ □ □ □ □ k

487	**KNX Channel X-{{...}}**	**Green dimming value**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
492	**KNX Channel X-{{...}}**	**Green brightness, status**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

□ □ □ RGB □ □ 3x1byte RGBW □ □ 4x1byte □ □ □ □ □ □

□ □ □ □ □ k □0…100%

Obj.487□□ G(□□)□□□ □ k Obj.492□□ □ G(□□)□□ □□ □ k					
488	**KNX Channel X-{{...}}**	**Blue dimming value**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
493	**KNX Channel X-{{...}}**	**Blue brightness, status**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
□ □□ RGB □ □ 3x1byte RGBW □ □ 4x1byte □□□□ □□ k □0…100% Obj.488□□ B(□□)□□□ □ k Obj.493□□ □ B(□□)□□ □□□ □ k					
489	**KNX Channel X-{{...}}**	**White dimming value**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
494	**KNX Channel X-{{...}}**	**White brightness, status**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
□ □□ RGBW □ □ 4x1byte □□□□ □□ k □0…100% Obj.489□□ W(□□)□□□ □ k Obj.494□□ □ W(□□)□□ □□□ □ k					
489	**KNX Channel X-{{...}}**	**Absolute colour temperature** **Percentage colour temperature**	**2byte** **1byte**	**C,T**	**7.600 absolute colour temperature** **5.001 percentage(0..100%)**

□□□ □□ □□□□□□□ k □2000...7000 K

□ □□ □□ □ k

494	KNX Channel X-{{...}}	Absolute colour temperature, status	2byte	C,W,T,U	7.600 absolute colour temperature

□□□ □□ □□□□□□□ k □2000...7000 K

□ □ &□ +□□ □ □□ □ □□□□ □ k

494	KNX Channel X-{{...}}	Percentage colour temperature, status	1byte	C,W,T,U	5.001 percentage(0..100%)

□□□ □□ □□□□□□□ k □2000...7000 K

□ □□ □ □□□□ □ k

495	KNX Channel X-{{...}}	Brightness value	1byte	C,T	5.001 percentage(0..100%)
497	KNX Channel X-{{...}}	Brightness, status	1byte	C,W,T,U	5.001 percentage(0..100%)

□ □□ □□ □□/ □□□ k □0...100%

Obj.495□ □ □□ □ □ □ k

Obj.497□ □ □ &□ +□□ □ □□ □ □□ □ k

495	KNX Channel X-{{...}}	Warm white brightness	1byte	C,T	5.001 percentage(0..100%)
497	KNX Channel X-{{...}}	Warm white brightness, status	1byte	C,W,T,U	5.001 percentage(0..100%)

□ □□ □□ □ □□□ □ k □0...100%

Obj.495□□ □□ □□ □ □ □ k

Obj.497□□ &□ / □ □ □□ □ □ □□ □ k

496	**KNX Channel X-{{...}}**	**Cool white brightness**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
498	**KNX Channel X-{{...}}**	**Cool white brightness, status**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

□ □□ □□ □ □□□ □ k □0...100%

Obj.496□□ □□ □□ □ □ □ k

Obj.498□□ &□ / □ □ □□ □ □ □□ □ k

485	**KNX Channel X-{{...}}**	**Switch**	**1bit**	**C,T**	**1.001 switch**
490	**KNX Channel X-{{...}}**	**Switch, status**	**1bit**	**C,W,T,U**	**1.001 switch**

□ □□ □□ □□ k □

0 □

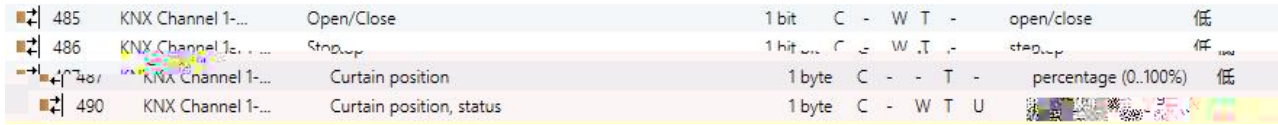
1 □

Obj.485□□ / □ □ □□ / k

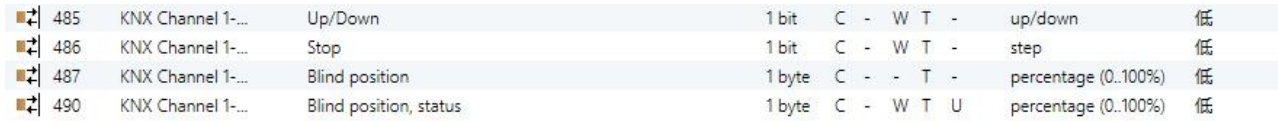
Obj.490□□ □□ □ / □ k

□ 6.10.3 “Colour and colour temperature control”□□

6.10.4 “Blind”□ □

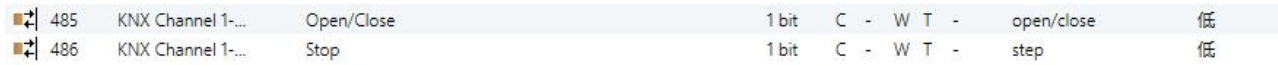


Curtain position

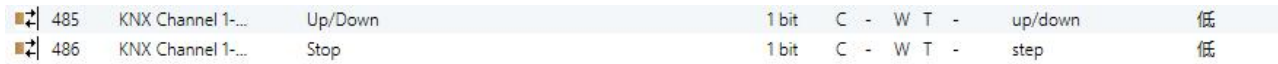


Roller blind position

Venetian blind position and slat



Curtain step/move



Roller blind step/move

6.10.4 “Blind”□ □

□	□	□	□		DPT
485	**KNX Channel X-{{...}}**	**Open/Close**	**1bit**	**C,W,T**	**1.009 open/close**
486	**KNX Channel X-{{...}}**	**Stop**	**1bit**	**C,W,T**	**1.007 step**
487	**KNX Channel X-{{...}}**	**Curtain position**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
490	**KNX Channel X-{{...}}**	**Curtain position, status**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

Curtain position□ □ □ k ! □ ! ! □ □ □ □ □ k

Obj.485□ □ /□ □ □ k □

1 ˚ □ □

0 ˚ □

Obj.486□ □ □ □ □ □ k □

0/1 ˚

Obj.487□ □ □ □ □ k □0…100%

Obj.490□ □ □ □ □ □ □ □ k □0…100%

485	**KNX Channel X-{{...}}**	**Up/Down**	**1bit**	**C,W,T**	**1.008 up/down**
486	**KNX Channel X-{{...}}**	**Stop**	**1bit**	**C,W,T**	**1.007 step**
487	**KNX Channel X-{{...}}**	**Blind position**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
490	**KNX Channel X-{{...}}**	**Blind position, status**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

Roller blind position□ □ □ □ □ k ! □ ! ! □ □ □ □ □ k

Obj.485□ □ □ □ □ □ /□ □ □ k □

1 ˚ □ □

0 ˚ □

Obj.487□ □ □ □ □ k □0…100%

Obj.490□ □ □ □ □ □ □ □ k □0…100%

Obj.486 k

485 KNX Channel X-{{...}} Up/Down

Obj.4 k

0/1

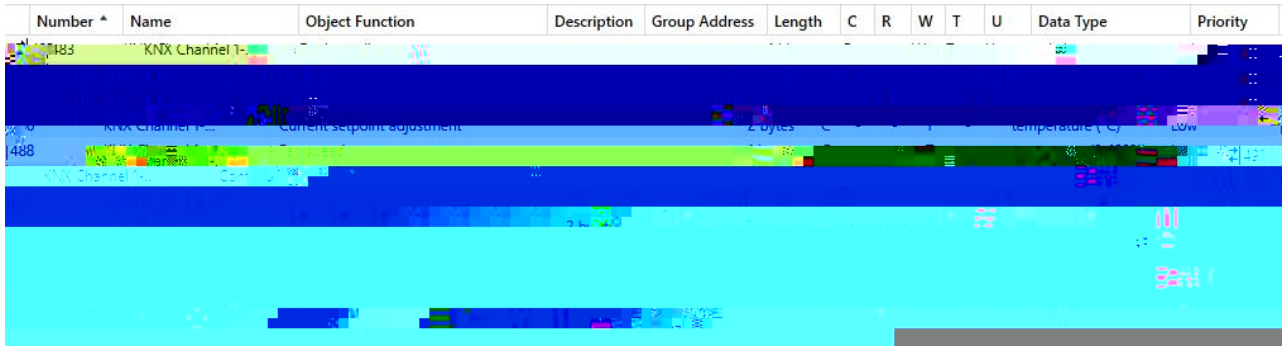
485	**KNX Channel X-{{...}}**	**Up/Down**	**1bit**	**C, W,T**	**1.008 up/down**
486	**KNX Channel X-{{...}}**	**Stop**	**1bit**	**C, W,T**	**1.007 step**

Roller blind step/move k ! ! k

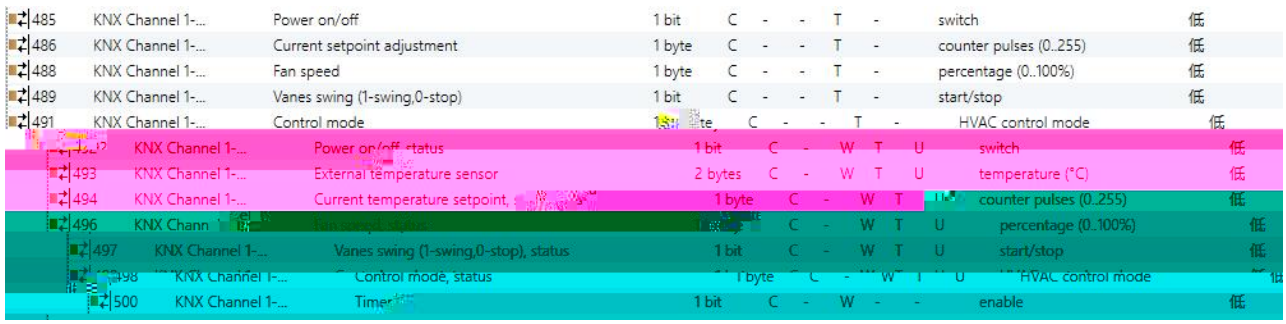
Obj.485 / k

1

6.10.5 “Air conditioner”□ □



Air conditioner



Air conditioner(with swing)

6.10.5 ”Air conditioner”□ □

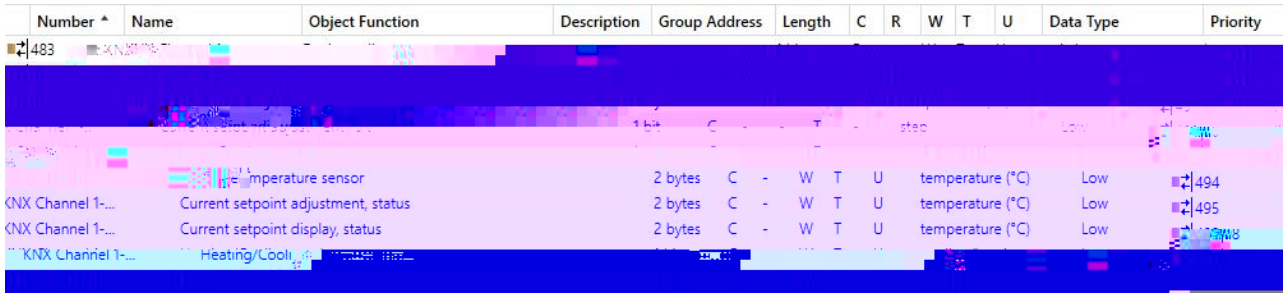
□	□	□	□		DPT
485	**KNX Channel X-{{...}}**	**Power on/off**	**1bit**	**C,T**	**1.001 switch**
□ □ □ □ □ □ □ KNX □					
486	**KNX Channel X-{{...}}**	**Current setpoint adjustment**	**2byte** **1byte**	**C,T**	**9.001 temperature** **5.010 counter pulses**
□ □ □ □ □ □ □ □ □ □ k □ □ □ □ □ □ **2byte** □ □ **KNX** □ **1byte** **KNX** □ □ □ □ □ □ □ □ □ □ □ **17** □ **17**□ □ □ k					

488	**KNX Channel X-{{...}}**	**Fan speed**	**1byte**

497	**KNX Channel X-{{...}}**	**Vanes swing (1-swing,0-stop), status**	**1bit**	**C,W ,T,U**	**1.010 start/stop**
□ ”Air conditioner(with swing)” □ □ □ □ k □ □ □ □ □ k □ 1—— □ 0—— □					
498	**KNX Channel X-{{...}}**	**Control mode, status**	**1byte**	**C,W ,T,U**	**20.105 HVAC control mode**
□ □ □ □ □ □ □ □ □ k □ □ □ □0-□ □1- □ □3- □9- □ □14-□ □ □ □ k					
500	**KNX Channel X-{{...}}**	**Timer**	**1bit**	**C,W**	**1.003 enable**
□ □ □ □ □ k □ □ □ □ □ □ □ , k □ 1- □ 2- □					

□ 6.10.5 ”Air conditioner”□ □

6.10.6 “Room temperature unit control”□ □



Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483												
					1 bit	C	-		T	-	step	Low
		mperature sensor			2 bytes	C	-	W	T	U	temperature (°C)	Low
	Current setpoint adjustment, status				2 bytes	C	-	W	T	U	temperature (°C)	Low
	Current setpoint display, status				2 bytes	C	-	W	T	U	temperature (°C)	Low
	Heating/Cool											

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Power on/off			1 bit	C	-	-	T	-	switch	Low
486	KNX Channel 1-...	Current setpoint adjustment			2 bytes	C	-	-	T	-	temperature (°C)	Low
487	KNX Channel 1-...	Current setpoint adjustment(1bit)			1 bit	C	-	-	T	-	step	Low
											enable	Low

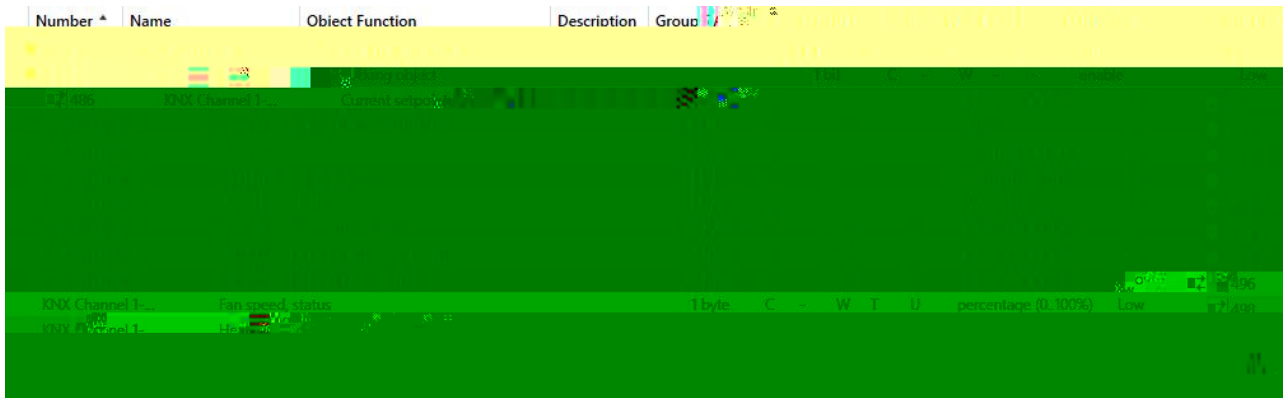
Room temperature unit(with on/off)

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
486	KNX Channel 1-...	Current setpoint adjustment			2 bytes	C	-	-	T	-	temperature (°C)	Low
487	KNX Channel 1-...	Current setpoint adjustment(1bit)			1 bit	C	-	-	T	-	step	Low
490	KNX Channel 1-...	Heating/Cooling mode			1 bit	C	-	-	T	-	cooling/heating	Low
491	KNX Channel 1-...	Operation mode			1 byte	C	-	-	T	-	HVAC mode	Low
493	KNX Channel 1-...	External temperature sensor			2 bytes	C	-	W	T	U	temperature (°C)	Low
494	KNX Channel 1-...	Current setpoint adjustment, status			2 bytes	C	-	W	T	U	temperature (°C)	Low
495	KNX Channel 1-...	Current setpoint display, status			2 bytes	C	-	W	T	U	temperature (°C)	Low
498	KNX Channel 1-...	Heating/			1 bit	C	-	W	T	U	cooling/heating	Low
499	KNX Channel 1-...	Operation mode status			1 byte	C	-	W	T	U	HVAC mode	Low
500	KNX Channel 1-...	Timer			1 bit	C	-	W	-	-	enable	Low

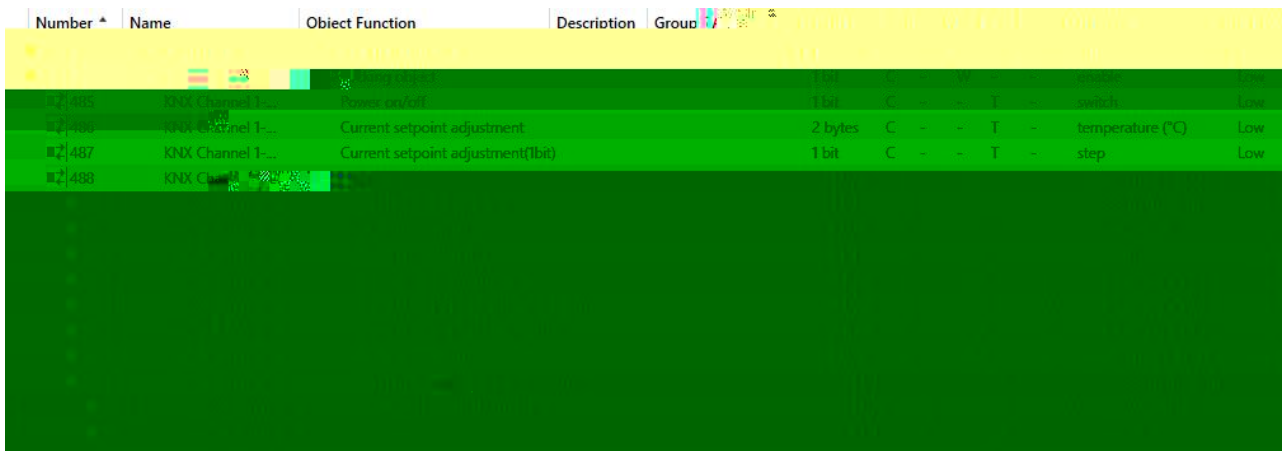
Room temperature unit(with operation mode)

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Power on/off			1 bit	C	-	-	T	-	switch	Low
486	KNX Channel 1-...	Current setpoint adjustment			2 bytes	C	-	-	T	-	temperature (°C)	Low
487	KNX Channel 1-...	Current setpoint adjustment(1bit)			1 bit	C	-	-	T	-	step	Low
490	KNX Channel 1-...	Heating/Cooling mode			1 bit	C	-	-	T	-	cooling/heating	Low
491	KNX Channel 1-...	Operation mode			1 byte	C	-	-	T	-	HVAC mode	Low
492	KNX Channel 1-...	Power on/off, status			1 bit	C	-	W	-	-	switch	Low
493	KNX Channel 1-...	External temperature sensor			2 bytes	C	-	W	T	U	temperature (°C)	Low
494	KNX Channel 1-...	Current setpoint adjustment, status			2 bytes	C	-	W	T	U	temperature (°C)	Low
495	KNX Channel 1-...	Current setpoint display, status			2 bytes	C	-	W	T	U	temperature (°C)	Low
498	KNX Channel 1-...	Heating/Cooling mode, status			1 bit	C	-	W	T	U	cooling/heating	Low
499	KNX Channel 1-...	Operation mode, status			1 byte	C	-	W	T	U	HVAC mode	Low
500	KNX Channel 1-...	Timer			1 bit	C	-	W	-	-	enable	Low

Room temperature unit(with on/off & operation mode)



Room temperature unit(with operation mode & fan speed)



Room temperature unit(with on/off & operation mode & fan speed)

6.10.6 “Room temperature unit control”□ □

□	□	□	□		DPT
485	**KNX Channel X-{{...}}**	**Power on/off**	**1bit**	**C,T**	**1.001 switch**
□ □ □ □ □ □ □ □ KNX □ □ □ k □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ ! ! □ □ ! □ □ □ □ k					
486	**KNX Channel X-{{...}}**	**Current setpoint adjustment**	**2byte**	**C,T**	**9.001 temperature**
□ □ □ □ 2byte □ 1bit& □ □ □ □ □ □ k □ □ □ □ □ □ □ 2byte □ □ □ □ □ □ k					
487	**KNX Channel X-{{...}}**	**Current setpoint adjustment(1bit)**	**1bit**	**C,T**	**1.007 step**
□ □ □ □ 1bit □ □ □ □ □ k □ □ □ □ □ □ □1bit □ □ □ □ □ □ k 1- □ □ □ 0- □ □ □					
488	**KNX Channel X-{{...}}**	**Fan speed**	**1byte**	**C,T**	**5.001 percentage** **5.100 fan stage**
□ □ □ □ □ □ □ □ k □ □ □ □ □					
489	**KNX Channel X-{{...}}**	**Fan automatic operation**	**1bit**	**C,T**	**1.003 enable**
□ □ □ □ □ □ □ □ k □ □ □ □ □ □ k □ 1 □ □ 0 □ □					

490	**KNX Channel X-{{...}}**	**Heating/Cooling mode**	**1bit**	**C,T**	**1.100 cooling/heating**
□ □ □ □ □ □ □ □ k □ 1—— □ 0——					
491	**KNX Channel X-{{...}}**	**Operation mode**	**1byte**	**C,T**	**20.102 HVAC mode**
□ □ □ □ □ □ □ □ k □ □ □ □ 1-□ □ □2- □3-□ □ □4- □ □ k					
492	**KNX Channel X-{{...}}**	**Power on/off, status**	**1bit**	**C,W**	**1.001 switch**
□ □ □ □ □ □ □ □ □ □ □ k □ 1—— 0——					
493	**KNX Channel X-{{...}}**	**External temperature sensor**	**2byte**	**C,W, T,U**	**9.001 temperature**
□ □ □ □ □ k □ □ □ □ □ □ □ □ □ □ k					
494	**KNX Channel X-{{...}}**	**Current setpoint adjustment, status**	**2byte**	**C,W, T,U**	**9.001 temperature**
□ □ □ □ □ □ □ □ □ □ □ k					
495	**KNX Channel X-{{...}}**	**Current setpoint display, status**	**2byte**	**C,W, T,U**	**9.001 temperature**

	"Interface display temperature"□ Setpoint temperature □ □ □ □ k □ □ □ □ □ □ □ k				
496	**KNX Channel X-{{...}}**	**Fan speed, status**	**1byte**	**C,W, T,U**	**5.001 percentage 5.100 fan stage**
	□ □ □ □ □ □ □ □ □ □ k □ □ □ □ □ k				
497	**KNX Channel X-{{...}}**	**Fan automatic operation, status**	**1bit**	**C,W, T,U**	**1.003 enable**
	□ □ □ □ □ □ □ k □ 1——□ 0——□ □				
498	**KNX Channel X-{{...}}**	**Heating/Cooling mode, status**	**1bit**	**C,W, T,U**	**1.100 cooling/heating**
	□ □ □ □ □ □ □ □ □ □ □ k □ 1 ˚ □ 0 ˚				
499	**KNX Channel X-{{...}}**	**Operation mode, status**	**1byte**	**C,W, T,U**	**20.102 HVAC mode**
	□ □ □ □ □ □ □ □ k □ □ □ □ □ 1-□ □ □ 2- □3-□ □ □ 4- □ □ k				
500	**KNX Channel X-{{...}}**	**Timer**	**1bit**	**C,W**	**1.003 enable**
	□ □ □ □ □ □ □ k □ □ □ □ □/ □ k				

□ 6.10.6 "Room temperature control"□ □

6.10.7 “Ventilation system”□ □

Number	Name	Object Function	Description	Group Address	Length	C	R			U	Data Type	Priority
483	KNX Cha...	...										

Ventilation system

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Power on/off			1 bit	C	-	-	T	-	switch	Low
486	KNX Channel 1-...	Filter timer counter			2 bytes	C	-	-	T	-	time (h)	Low
487	KNX Channel 1-...	Filter alarm			1 bit	C	-	-	T	-	alarm	Low
488	KNX Channel 1-...	Fan speed			1 byte	C	-	-	T	-	percentage (0..100%)	Low
489	KNX Channel 1-...	Fan automatic operation			1 bit	C	-	-	T	-	enable	Low
490	KNX Channel 1-...	Heat recovery				C	-	-	T	-	enable	Low
492	KNX Channel 1-...	Power on/off, status			1 bit	C	-	W	-	-	switch	Low
493	KNX Channel 1-...	Filter timer counter change			2 bytes	C	-	W	-	-	time (h)	Low
494	KNX Channel 1-...	PM 2.5										

Ventilation system(with auto fan speed)

6.10.7”Ventilation system”□ □

□	□	□	□	**DPT**

485 KNX Chan

□ □ □□ □ □□□□ □ □ □ □ k □ 1——□ 0—— □					
488	**KNX Channel X-{{...}}**	**Fan speed**	**1byte**	**C,T**	**5.001 percentage** **5.100 fan stage**
□□□ □ □□□ □ k □ □□□ □ k					
489	**KNX Channel X-{{...}}**	**Fan automatic operation**	**1bit**	**C,T**	**1.003 enable**
□ Ventilation system(with auto fan speed) □□□ □□□ □ □□□ □ k □ □ □□ □□ □□ □□ k ! □□□ ! □ □ k □□□ 1-□ □0- □ k					
490	**KNX Channel X-{{...}}**	**Heat recovery**	**1bit**	**C,T**	**1.003 enable**
”Heat recovery function” □ □□□ □□□ / □□ □ k □ 1—— 0——					
492	**KNX Channel X-{{...}}**	**Power on/off, status**	**1bit**	**C,W**	**1.001 switch**
□□□ □ □ □ □ □ □ k					
493	**KNX Channel X-{{...}}**	**Filter timer counter change**	**2byte**	**C,W**	**7.007 time(h)**
”Filter timer counter” □ □□□□ □ k □ □□ □ □ □ □ k					
494	**KNX Channel X-{{...}}**	**CO2 value**	**2byte**	**C,W, T,U**	**7.001 pulse** **9.030 concentration(ug/m3)** **9.008 parts/million(ppm)**

□ Ventilation system(with auto fan speed) □ □ □ □ k □ □ □ k

□ □ □ □ CO2 □ □ □ □ □ □ □ □ □ □ ppm k □ □

0~4000ppm

□ □ CO2 □ □ □ □ □ □ □ □ □ CO2 □ □ □ □ □

k

494	**KNX Channel X-{{...}}**	**VOC value**	**2byte**	**C,W, T,U**	**7.001 pulse 9.030 concentration(ug/m3) 9.008 parts/million(ppm)**

□ □ □ □ VOC □ □ □ □ □ □ □ □ □ □ ppm k □ □

0~4000ppm

□ □ VOC □ □ □ □ □ □ □ □ □ VOC □ □ □ □ □

k

494	**KNX Channel X-{{...}}**	**PM 2.5 value**	**2byte**	**C,W, T,U**	**7.001 pulse 9.030 concentration(ug/m3) 9.008 parts/million(ppm)**

□ □ □ □ PM2.5 □ □ □ □ □ □ □ □ □ □ ug/m^3 k □ □

0~999ug/m^3

□ □ PM2.5 □ □ □ □ □ □ □ □ □ PM2.5 □ □ □ □ □

□ k

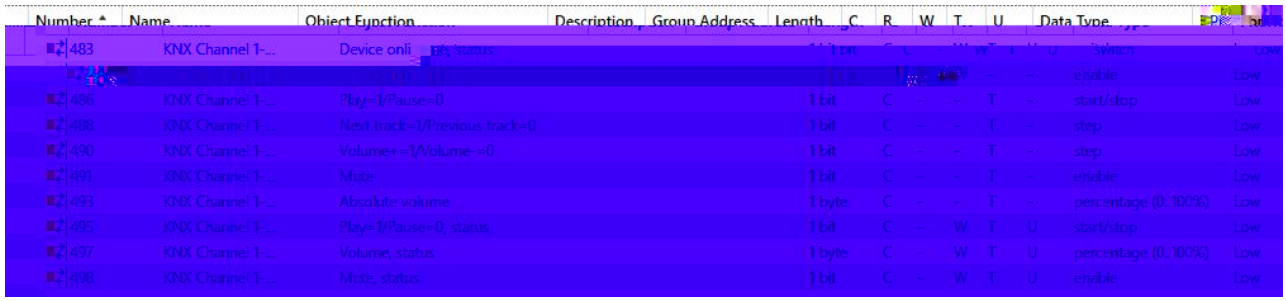
496	**KNX Channel X-{{...}}**	**Fan speed, status**	**1byte**	**C,W**	**5.001 percentage 5.100 fan stage**

□ □ □ □ □ □ □ □ □ k □ □ □ □ k

497	**KNX Channel X-{{...}}**	**Fan automatic operation, status**	**1bit**	**C,W**	**1.003 enable**
□ Ventilation system(with auto fan speed) □ □ □ □ □□ □ □ □ □ □ □ k					
498	**KNX Channel X-{{...}}**	**Heat recovery, status**	**1bit**	**C,W**	**1.003 enable**
”Heat recovery function” □ □ □ □ □ k □ □ □ □ □ □ □ k					
499	**KNX Channel X-{{...}}**	**Filter timer reset**	**1bit**	**C,W**	**1.015 reset**
”Filter timer counter” □ □ □ □ □ k □ □ □ □ □ □ □ □ □ □ k □ 1—— □					

□ 6.10.7”Ventilation system”□ □

6.10.8 “Audio control” □ □

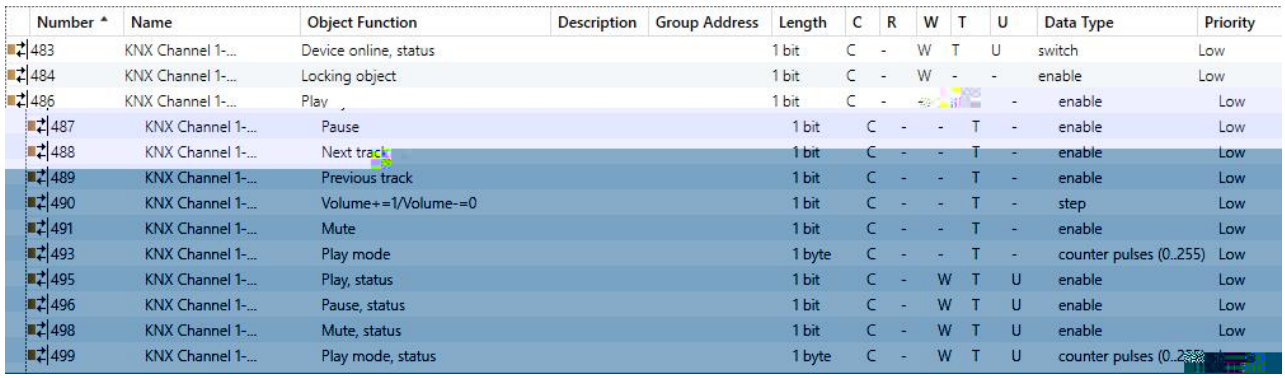


Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device onli			1 bit	C		W	T	U	switch	Low
486	KNX Channel 1-...	Play=1/Pause=0			1 bit	C	-	-	T	-	start/stop	Low
488	KNX Channel 1-...	Next track=1/Previous track=0			1 bit	C	-	-	T	-	step	Low
490	KNX Channel 1-...	Volume+=1/Volume-=0			1 bit	C	-	-	T	-	step	Low
491	KNX Channel 1-...	Mute			1 bit	C	-	-	T	-	enable	Low
493	KNX Channel 1-...	Absolute volume			1 byte	C	-	-	T	-	percentage (0..100%)	Low
495	KNX Channel 1-...	Play=1/Pause=0, status			1 bit	C	-	W	T	U	start/stop	Low
497	KNX Channel 1-...	Volume, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
498	KNX Channel 1-...	Mute, status			1 bit	C	-	W	T	U	enable	Low

Audio control

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483												

Audio control(with on/off)



Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
486	KNX Channel 1-...	Play			1 bit	C	-	-	-	-	enable	Low
487	KNX Channel 1-...	Pause			1 bit	C	-	-	T	-	enable	Low
488	KNX Channel 1-...	Next track			1 bit	C	-	-	T	-	enable	Low
489	KNX Channel 1-...	Previous track			1 bit	C	-	-	T	-	enable	Low
490	KNX Channel 1-...	Volume+=1/Volume-=0			1 bit	C	-	-	T	-	step	Low
491	KNX Channel 1-...	Mute			1 bit	C	-	-	T	-	enable	Low
493	KNX Channel 1-...	Play mode			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
495	KNX Channel 1-...	Play, status			1 bit	C	-	W	T	U	enable	Low
496	KNX Channel 1-...	Pause, status			1 bit	C	-	W	T	U	enable	Low
498	KNX Channel 1-...	Mute, status			1 bit	C	-	W	T	U	enable	Low
499	KNX Channel 1-...	Play mode, status			1 byte	C	-	W	T	U	counter pulses (0..2	

Audio control(play mode)

Audio control(track information)

Audio control(track information+playlist)

6.10.8 “Audio control”□ □

□	□	□	□		DPT
485	**KNX Channel X-{{...}}**	**Power on/off**	**1bit**	**C,T**	**1.001 switch**
□ □ □□□□ □k□ □ □ / □ KNX □ k □ 1—— 0——					

486	**KNX Channel X-{{...}}**	**Play=1/Pause=0** **Play**	**1bit**	**C,T**	**1.010 start/stop**
/ □ 1 □□□□ □k□ / □ □ □□k □ 1—— □ 0—— □					
486	**KNX Channel X-{{...}}**	**Play**	**1bit**	**C,T**	**1.003 enable**
/ □□ 2 □□□□ □k□ □ □ □□k □ 1—— □					
487	**KNX Channel X-{{...}}**	**Pause**	**1bit**	**C,T**	**1.003 enable**
/ □□ 2 □□□□ □k□□□ □ □ □ □□k □ 1—— □					
488	**KNX Channel X-{{...}}**	**Next track=1/Previous track=0**	**1bit**	**C,T**	**1.007 step**
□/ □ □ □ 1 □□□□ □k□ □ □ □ □ □/ □ k □ 1—— □ 0—— □					
488	**KNX Channel X-{{...}}**	**Next track**	**1bit**	**C,T**	**1.003 enable**
□/ □ □□□ 2 □□□□ □k□ □ □ □ □ □ k □ 1—— □					

489	**KNX Channel X-{{...}}**	**Previous track**	**1bit**	**C,T**	**1.003 enable**
□/ □ □□□2 □□□□ □ k□ □ □ □ □ □ k □ 1—— □					
490	**KNX Channel X-{{...}}**	**Volume+=1/Volume-=0**	**1bit**	**C,T**	**1.007 step**
1bit □□□□ □ □□□ □ □□ k □ 1——□ 0——□					
493	**KNX Channel X-{{...}}**	**Absolute volume**	**1byte**	**C,T**	**5.001 percentage** **5.004 percentage**
1byte □□□□ □ □□□ □ □□ k □ □ □ □0..100 / 0..255					
491	**KNX Channel X-{{...}}**	**Mute**	**1bit**	**C,T**	**1.003 enable**
□□ □ □□□□ □ k□ □□ □□ □ □ k □ 1 □□ 0 □□□					
492	**KNX Channel X-{{...}}**	**Next playlist=1/Previous playlist=0**	**1bit**	**C,T**	**1.007 step**
□/ □ □ □1 □□□□ □ k□ □ □ □ □ k □ 1—— □					

0—— □					
493	**KNX Channel X-{{...}}**	**Play mode**	**1byte**	**C,T**	**5.010 counter pulses**
□ □ □ □ □ □ □ □ □ □ □ □ □ k					
494	**KNX Channel X-{{...}}**	**Power on/off, status**	**1bit**	**C,W, T,U**	**1.001 switch**
□ □ □ □ □ □ □ k □ □ □ □ □ □ □ □ k					
495	**KNX Channel X-{{...}}**	**Play=1/Pause=0, status**	**1bit**	**C,W, T,U**	**1.010 start/stop**
□ □ □ □ □ □ □ □ / □ □ □ □ k					
495	**KNX Channel X-{{...}}**	**Play, status**	**1bit**	**C,W, T,U**	**1.003 enable**
/ □ □ 2 □ □ □ □ □ k □ □ □ □ □ □ □ □ k □ 1——					
496	**KNX Channel X-{{...}}**	**Pause, status**	**1bit**	**C,W, T,U**	**1.003 enable**
/ □ □ 2 □ □ □ □ □ k □ □ □ □ □ □ □ □ k □ 1——					
497	**KNX Channel X-{{...}}**	**Volume, status**	**1byte**	**C,W, T,U**	**5.001 percentage 5.004 percentage**

1byte □□□□ □ □ □ □□ □ □ □ □ k □ □ □ □0..100 / 0..255 k					
498	**KNX Channel X-{{...}}**	**Mute, status**	**1bit**	**C,W, T,U**	**1.003 enable**
□□ □ □□□□ □ k □ □ □ □□□□ □ □ □ k					
499	**KNX Channel X-{{...}}**	**Play mode, status**	**1byte**	**C,W, T,U**	**5.010 counter pulses**
□□□ □ □ □ □□ □ □ □ □ □ □ □□ k					
500	**KNX Channel X-{{...}}**	**Track name**	**14byte**	**C,W, T,U**	**16.001 character string (ISO 8859-1)**
□□□ □ □□ □ □ □ k					
501	**KNX Channel X-{{...}}**	**Album name**	**14byte**	**C,W, T,U**	**16.001 character string (ISO 8859-1)**
□□□ □ □□ □ □ □ k					
502	**KNX Channel X-{{...}}**	**Artist name**	**14byte**	**C,W, T,U**	**16.001 character string (ISO 8859-1)**
□□□ □ □□ □ □ □ k					
503	**KNX Channel X-{{...}}**	**Playlist name**	**14byte**	**C,W, T,U**	**16.001 character string (ISO 8859-1)**
□□□ □ □□ □ □ □ k					

10.6.8 “Audio control”□ □

□□□ □ □ □ □□ □ □ k □-670760mV~670760mV□ □□ 0.1mV k					
486	**KNX Channel X-{{...}}**	**Voltage value**	**4byte**	**C,W,T,U**	**14.027 electric potential(V)**
□□□ □ □ □ □□ □ □ k □-99999999.9~99999999.9V□ □□ 0.1V k					
487	**KNX Channel X-{{...}}**	**Power value**	**2byte**	**C,W,T,U**	**9.024 power(kW)**
□□□ □ □ □ □ □ □ □ k □-670760~670760kW□ □□ 0.1kW k					
487	**KNX Channel X-{{...}}**	**Power value**	**4byte**	**C,W,T,U**	**14.056 power(W)**
□□□ □ □ □ □ □ □ □ k □-99999999.9~99999999.9W□ □□ 0.1W k					
488	**KNX Channel X-{{...}}**	**Energy value**	**4byte**	**C,W,T,U**	**13.010 active energy(Wh)**
□□□ □ □ □ □□ □ □ k □-2147483648~2147483647Wh□ □□ 1Wh k					
488	**KNX Channel X-{{...}}**	**Energy value**	**4byte**	**C,W,T,U**	**13.013 active energy(kWh)**
□□□ □ □ □ □□ □ □ k □-2147483648~2147483647kWh□ □□ 1kWh k					

□ 10.6.9 “Energy Metering display”

6.10.10 “Sensor”□ □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
485	KNX Channel 1-...	Temperature value			2 bytes	C	-	W	T	U	temperature (°C)	Low
486	KNX Channel 1-...	Low temperature alarm			1 bit	C	R	-	T	-	alarm	Low
487	KNX Channel 1-...	High temperature alarm			1 bit	C	R	-	T	-	alarm	Low

Temperature sensor

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
485	KNX Channel 1-...	Humidity			2 bytes	C	-	W	T	U	humidity (%)	Low
486	KNX Channel 1-...	Low humidity alarm			1 bit	C	R	-	T	-	alarm	Low
487	KNX Channel 1-...	High humidity alarm			1 bit	C	R	-	T	-	alarm	Low

Humidity sensor

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
485	KNX Channel 1-...	PM2.5 value			2 bytes	C	-	W	T	U	pulses	Low
486	KNX Channel 1-...	PM2.5 alarm			1 bit	C	R	-	T	-	alarm	Low

PM2.5 sensor

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
485	KNX Channel 1-...	PM10 value			2 bytes	C	-	W	T	U	pulses	Low
486	KNX Channel 1-...	PM10 alarm			1 bit	C	R	-	T	-	alarm	Low

PM10 sensor

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
485	KNX Channel 1-...				2 bytes	C	-	W	T	U	pulses	Low
486	KNX Channel 1-...	VOC alarm			1 bit	C	R	-	T	-		Low

VOC sensor

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
485	KNX Channel 1-...	AQI value			2 bytes	C	-	W	T	U	pulses	Low
486	KNX Channel 1-...	AQI alarm			1 bit	C	R	-	T	-	alarm	Low

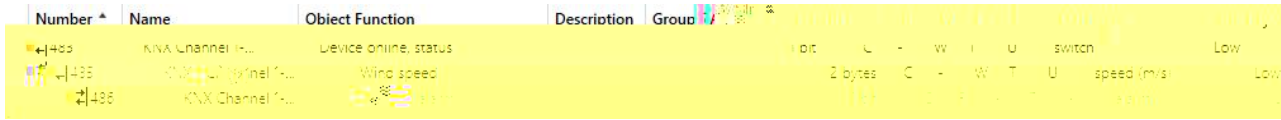
AQI sensor

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
485	KNX Channel 1-...	CO2 value			2 bytes	C	-	W	T	U	parts/million (ppm)	Low
6	KNX Channel 1-...	CO2 alarm			1 bit	C	R	-	T	-	alarm	Low

CO2 sensor

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
483	KNX Channel 1-...	Device online, status			1 bit	C	-	W	T	U	switch	Low
485	KNX Channel 1-...	Brightness value(lux)			2 bytes	C	-	W	T	U	lux (Lux)	Low

Brightness sensor



Wind sensor

I/O sensor

6.10.10 “Sensor”□ □

□	□	□	□		DPT
485	KNX Channel X-{{...}}	Temperature value	2byte	C,W,T,U	9.001 temperature
485	KNX Channel X-{{...}}	Humidity value	2byte	C,W,T,U	9.007 humidity
485	KNX Channel X-{{...}}	PM2.5 value	2byte	C,W,T,U	7.001 pulse 9.030 concentration(ug/m3)
485	KNX Channel X-{{...}}	PM10 value	2byte	C,W,T,U	7.001 pulse 9.030 concentration(ug/m3)
485	KNX Channel X-{{...}}	VOC value	2byte	C,W,T,U	7.001 pulse 9.030 concentration(ug/m3)
485	KNX Channel X-{{...}}	AQI value	2byte	C,W,T,U	7.001 pulses
485	KNX Channel X-{{...}}	CO2 value	2byte	C,W,T,U	7.001 pulse 9.008 parts/million(ppm)
485	KNX Channel X-{{...}}	Brightness value(lux)	2byte	C,W,T,U	7.013 brightness(lux) 9.004 lux(lux)
485	KNX Channel X-{{...}}	Wind speed	2byte	C,W,T,U	9.005 speed 9.028 wind speed
485	KNX Channel X-{{...}}	I/O signal	1bit	C,W,T,U	1.001 switch
□ □ □ □ □ □ □ □ □ □ □ □ □ k □					

□ □ □ ! □ ! PM2.5 ! PM10 ! VOC ! AQI ! CO2 ! □ ! □ □ □ □ k

□ □ □ □ k □ □ □ k

486	**KNX Channel X-{{...}}**	**Low temperature alarm**	**1bit**	**C,R,T**	**1.005 alarm**

□ □ □ □ □ □ □ □ □ □ □ □ □ □ k

□

1—— □ □

0—— □

487	**KNX Channel X-{{...}}**	**High temperature alarm**	**1bit**	**C,R,T**	**1.005 alarm**

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ k

□

1——□ □ □

0—— □

486	**KNX Channel X-{{...}}**	**Low humidity alarm**	**1bit**	**C,R,T**	**1.005 alarm**

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ k

□

1—— □ □

0—— □

487	**KNX Channel X-{{...}}**	**High humidity alarm**	**1bit**	**C,R,T**	**1.005 alarm**	

□ k

□

1——□ □ □

0—— □

486	**KNX Channel X-{{...}}**	**PM2.5 alarm**	**1bit**	**C,R,T**	**1.005 alarm**	
486	**KNX Channel X-{{...}}**	**PM10 alarm**	**1bit**	**C,R,T**	**1.005 alarm**	
486	**KNX Channel X-{{...}}**	**AQI alarm**	**1bit**	**C,R,T**	**1.005 alarm**	
486	**KNX Channel X-{{...}}**	**CO2 alarm**	**1bit**	**C,R,T**	**1.005 alarm**	
486	**KNX Channel X-{{...}}**	**VOC alarm**	**1bit**	**C,R,T**	**1.005 alarm**	
486	**KNX Channel X-{{...}}**	**Wind alarm**	**1bit**	**C,R,T**	**1.005 alarm**	

6.10.11 “Value sender”□ □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Send 1bit value			1 bit	C	-	W	T	-	switch	Low
487	KNX Channel 1-...	Send 1bit value, long			1 bit	C	-	W	T	-	switch	Low

1bit value[ON/OFF]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Send 2bit value			2 bit	C	-	W	T	-	switch control	Low
487	KNX Channel 1-...	Send 2bit value, long			2 bit	C	-	W	T	-	switch control	Low

2bit value[0...3]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Send 4bit value			4 bit	C	-	W	T	-	dimming control	Low
487	KNX Channel 1-...	Send 4bit value, long			4 bit	C	-	W	T	-	dimming control	Low

4bit value[0...15]

Number	Name	Object Function	Description	Group

1byte value[0...255]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Send 2byte value			2 bytes	C	-	W	T	-	pulses	Low
487	KNX Channel 1-...	Send 2byte value, long			2 bytes	C	-	W	T	-	pulses	Low

2byte value[0...65535]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...	Send 2byte float value			2 bytes	C	-	W	T	-	2-byte float value	Low
487	KNX Channel 1-...	Send 2byte float value, long			2 bytes	C	-	W	T	-	2-byte float value	Low

2byte float value

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
484	KNX Channel 1-...	Locking object			1 bit	C	-	W	-	-	enable	Low
485	KNX Channel 1-...											

4byte value[0...4294967295]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority

4byte float value

6.10.11 ”Value sender”

□	□	□	□		DPT
485	KNX Channel X-{{...}}	Send 1bit value	1bit	C,T,W	1.001 switch
485	KNX Channel X-{{...}}	Send 2bit value	2bit	C,T,W	2.001 switch control
485	KNX Channel X-{{...}}	Send 4bit value	4bit	C,T,W	3.007 dimming
485	KNX Channel X-{{...}}	Send 1byte value	1byte	C,T,W	5.010 counter pulses
485	KNX Channel X-{{...}}	Send 2byte value	2byte	C,T,W	7.001 pulses
485	KNX Channel X-{{...}}	Send 2byte float value	2byte	C,T,W	9.x float value
485	KNX Channel X-{{...}}	Send 4byte value	4byte	C,T,W	12.001 counter pulses
485	KNX Channel X-{{...}}	Send 4byte float value	4byte	C,T,W	14.x float value

□ □□ □ □□□□ □ □ □ □ □ □□ k

□ □ □ □□□ □ k

487	KNX Channel X-{{...}}	Send 1bit value, long	1bit	C,T,W	1.001 switch
487	KNX Channel X-{{...}}	Send 2bit value, long	2bit	C,T,W	2.001 switch control
487	KNX Channel X-{{...}}	Send 4bit value, long	4bit	C,T,W	3.007 dimming
487	KNX Channel X-{{...}}	Send 1byte value, long	1byte	C,T,W	5.010 counter pulses
487	KNX Channel X-{{...}}	Send 2byte value, long	2byte	C,T,W	7.001 pulses
487	KNX Channel X-{{...}}	Send 2byte float value, long	2byte	C,T,W	9.x float value
487	KNX Channel X-{{...}}	Send 4byte value, long	4byte	C,T,W	12.001 counter pulses
487	KNX Channel X-{{...}}	Send 4byte float value, long	4byte	C,T,W	14.x float value

6.11 “KNX Scene”□ □

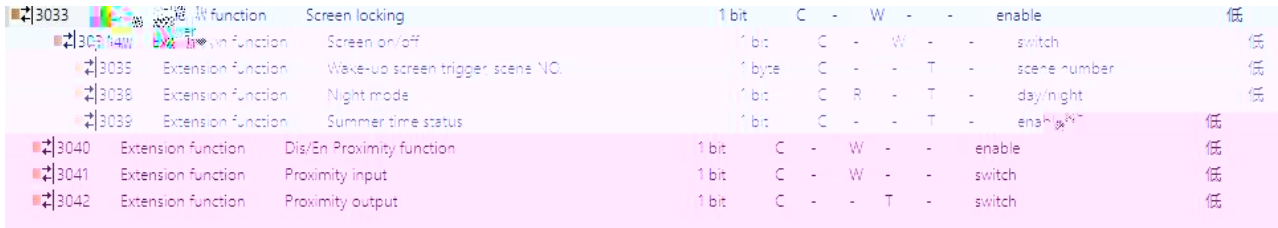
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
3003	Scene 1-...	Scene			1 byte	C	-	W	T	-	scene control	Low

6.11 “KNX Scene”□ □

□	□	□	□		**DPT**
3003/.../3032	**Scene X-{{...}}**	**Scene control**	**1byte**	**C,T,W**	**18.001 scene control**
□ □ □□□□ □ k □ □□ □□□/ k					

□ 6.11 “KNX Scene”□ □

6.12 “Extension function”□ □



6.12 ”Extension function, Screensaver”□ □

□	□	□	□		DPT
3033	**Extension function**	**Screen locking**	**1bit**	**C,W**	**1.003 enable**
□ □ □ □ □ □ □ □ □ □ □ □ □ □ k □ 1 ˚ ˚ □ □ 0 ˚ ˚ □					
3034	**Extension function**	**Screen on/off**	**1bit**	**C,W**	**1.001 switch**
□ □ □ □ □ /□ k □ 1 ˚ ˚ 0 ˚ ˚ □					
3035	**Extension function**	**Wake-up screen trigger,1bit value/1byte value/scene NO.**	**1bit** **1byte**	**C,T**	**1.001 switch** **5.010 counter pulses** **5.001 percentage** **17.001 scene number**
□ □ □ □ □ □ □ □ □ □ □ k □ □ □ □ □ □ □ k					

3038	**Extension function**	**Night mode**	**1bit**	**C,R,T C,W,T ,U**	**1.024 day/night**
□ □ □ □ □ □ / □ □ □ k □ / □ □ □ □ □ □ C,W,T,U□ □ □ □ □ □ □ □ □ C,R,T k					
3039	**Extension function**	**Summer time status**	**1bit**	**C,T**	**1.003 enable**
□ □ □ □ □ □ □ □ □ k □ 1 ˚ ˚ □ □ 0 ˚ ˚ □ □ □					
3040	**Extension function**	**Dis/En Proximity function**	**1bit**	**C,W**	**1.003 enable**
□ □ □ □ □/ ŕ □ □ □ k					
3041	**Extension function**	**Proximity input**	**1bit**	**C,W**	**1.001 switch**
□ □ □ □ □ □ □ □ □ □ □ k □ □ □ 1̊ ˚ □ □ □ □ 0̊ ˚ □ □ □ □ □ □					
3042	**Extension function**	**Proximity output**	**1bit 1byte**	**C,T**	**1.001 switch 5.010 counter pulses 17.001 scene number 5.001 percentage**
□ □ □ □ “Object type of output value” □ □ □ □ □ □1byte□ ON(1bit) □ k □ □ □ □ □ k					

□ 6.12 ”Extension function, Screensaver”□ □