K-BUS

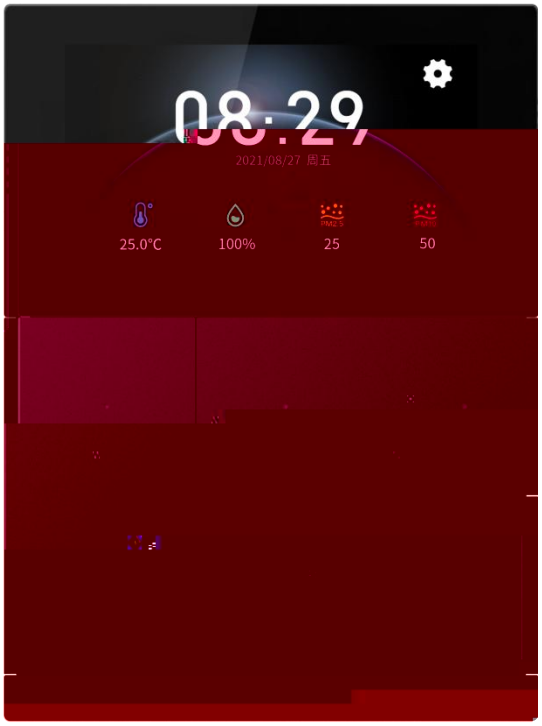
3 6

KNX Smart Touch with push button&Secure,3-gang_V1.4

CHTFB-3.0/6.S.0x ( )

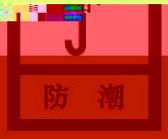
CHTFB-3.0/6.S.2x ( )

(x=0 x=1 x=2 x=3 x=4)



KNX/EIB

注意事项



在地上或使之受到强力冲击；

2、不要将设备摔落

成具挥发性的试剂擦拭设备；

3、不要使用湿布或

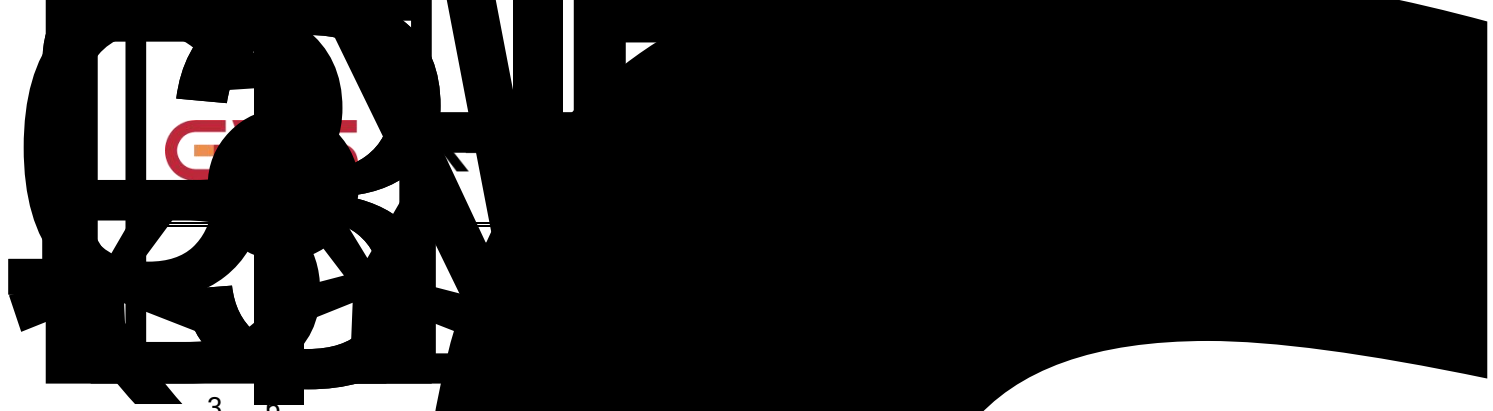
!

1

.....1
.....3
..... 4
3.1 4
3.2 5
..... 6
ETS 10
5.1. KNX 10
5.2. “General” 16
5.2.1. “General setting” 16
5.2.2. “Screen saver setting” 22
5.2.3. “Security setting” 26
5.2.4. “Night mode setting” 29
5.2.5. “Summer time setting” 34
5.2.6. “Proximity setting” 36
5.2.7. “Alarm setting” 38
5.2.8. “Advanced setting” 40
5.3. “Internal temperature measurement” 41
5.4. “Input” 45
5.4.1. 46
5.4.2. 49
5.5. “HVAC controller” 54
5.5.1. “Controller x - RTC”(x=1~6) 55
5.5.1.1. “Setpoint” 63
5.5.1.2. “Heating/Cooling control” 70
5.5.1.3. “Fan auto.control” 77
5.5.2. “Controller x - Ventilation”(x=1~6) 82
5.6. “Home page” 89
5.6.1. “Function” 89
5.6.2. “Icon x”(x=1~6) 91
5.7. “Function page setting” 95

5.7.1. “Page x”(x=1~6) 95
5.7.2. “Icon x”(x=1~6) 96
5.7.2.1. 98
1. 98
2. / 99
3. / 100
4. RGB / RGBW / RGBCW / 104
5. 108
6. 112
7. 114
8. 116
5.7.2.2. 118
5.7.2.3. 125
5.7.2.4. 132
5.7.2.5. 136
5.7.2.6.LED 140
5.8. “Button” 143
5.8.1. 144
5.8.1.1. 145
5.8.1.2. 148
5.8.1.3. 150
5.8.1.4. 151
5.8.1.5. 152
5.8.1.6. 153
5.8.1.7. 156
5.8.1.8. 157
5.8.1.9. 159
5.8.1.10. (14bytes) 161
5.8.1.11.LED 162
5.8.2. 167
5.8.3. “Customized colour” 170
5.9. “Logic” 171
5.9.1.“AND/OR/XOR” 172

5.9.4.“Forced invert” 180
5.9.5. “Gate function” 180
5.9.6.“Delay function” 182
5.9.7.“Staircase lighting” 183
5.10. “Scene Group” 184
..... 188
6.1.“General” 188
6.2.“Internal sensor” 193
6.3.“Input” 194
6.4.“HVAC controller” 197
6.4.1.“Room temperature controller” 197
6.4.2.“Ventilation control type 2-DC V” 203
6.5.“Home page” 204
6.6.“Function page setting” .....



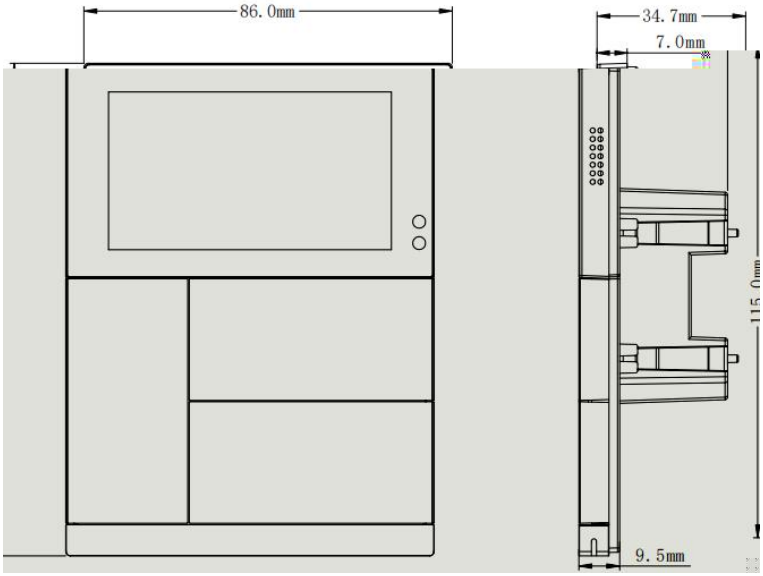
3 6

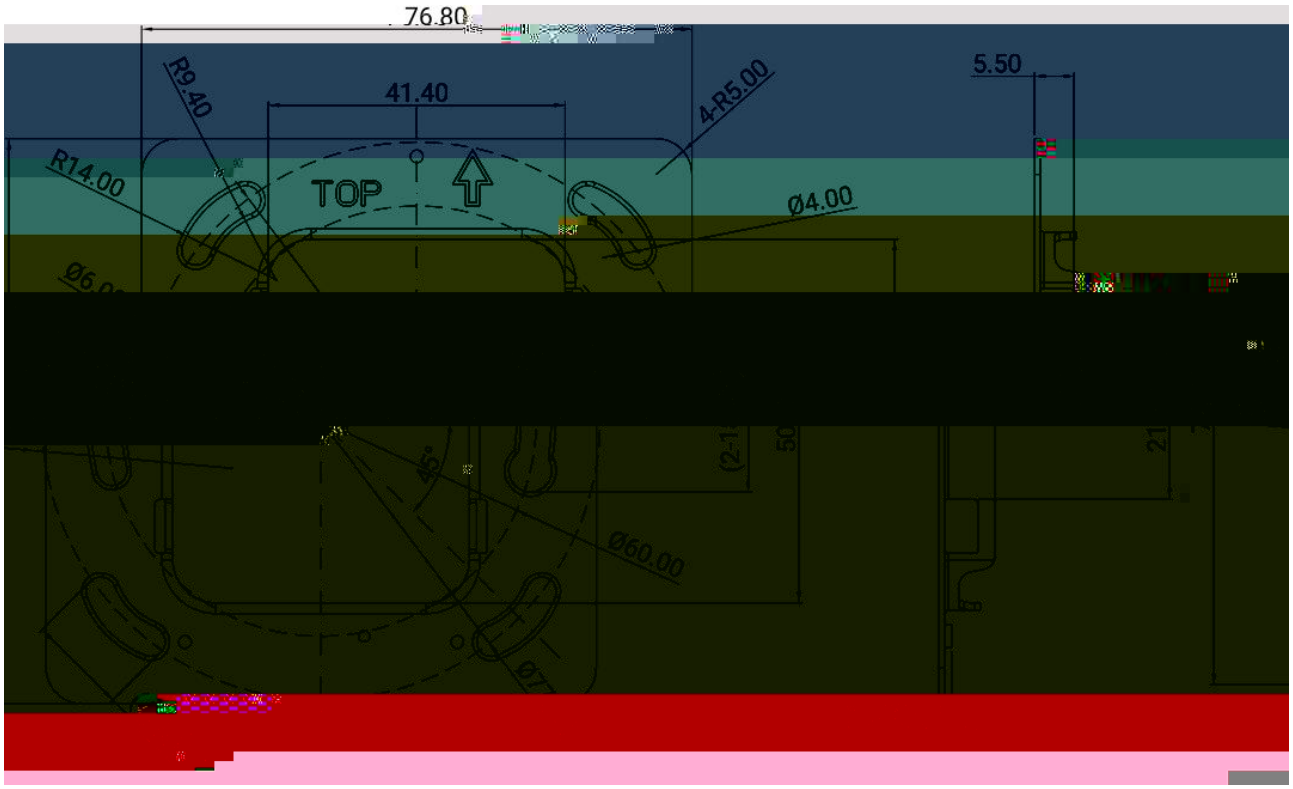
! ! ! RGBW !

k

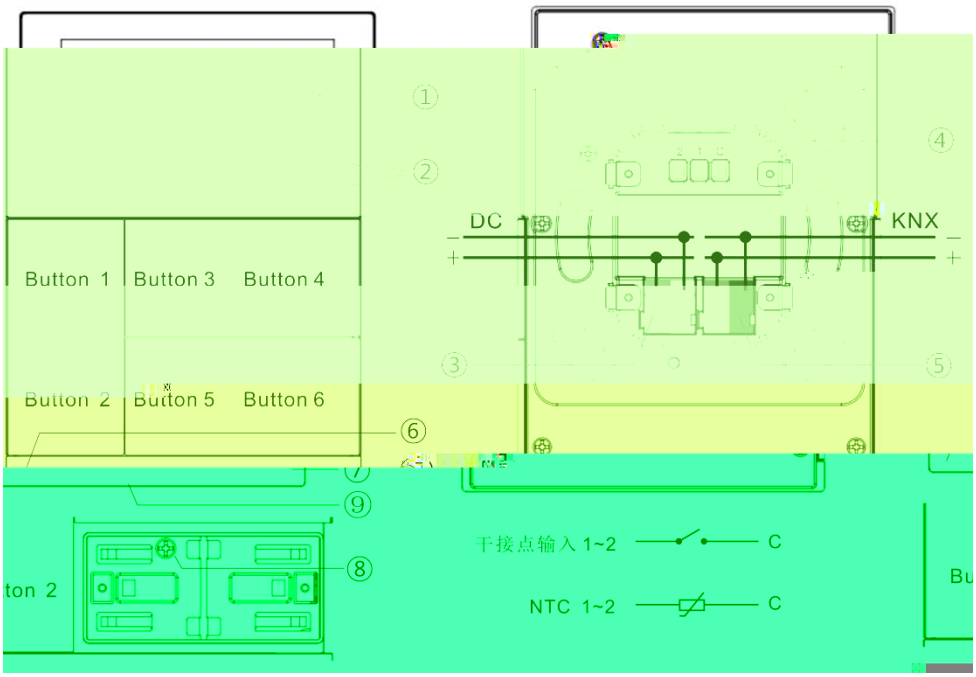
□ □

3.1


86.0mm
34.7mm
7.0mm
9.5mm


76.80
R9.40
41.40
4-R5.00
5.50
R14.00
TOP
Ø4.00
Ø60.00

3.2



F Micro USB

F

h

ϟ

KNX

k ETS k

4 , 4 , 3 k

4 k

KNX Smart Touch with push button&Secure, 3-gang/1.1	**1023**	**2000**	**2000**	**1500**

! KNX ! ! !

k

! ! ! ! / !

k

2 k 4 2

! k k

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

k

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

6

4 6 / k

! ! !

(RGB ! RGBW) ! ! HVAC ! ! k

! ! ! k

2 / k

! ! / /

k

B k

k k

k

k

! ! ! ! ! ! ! !

RTC ! k ! ! 1

2 k

/ k

k

F ! ! 1bit/1byte !

! k

F k k

F

a. LED LED

b. >0 LED =0

c. LED k

F ! ! ! ! !

! ! ! k

ϒ k k

HVAC

6 k

! / ! ! ! !

! ! 2 PI

-10~10°C k

PM2.5/CO2/VOC k 1bit 1byte

k

8 8 1 k

! ! ! ! ! ! ! k

8 8

1bit/1byte/2byte k

ETS

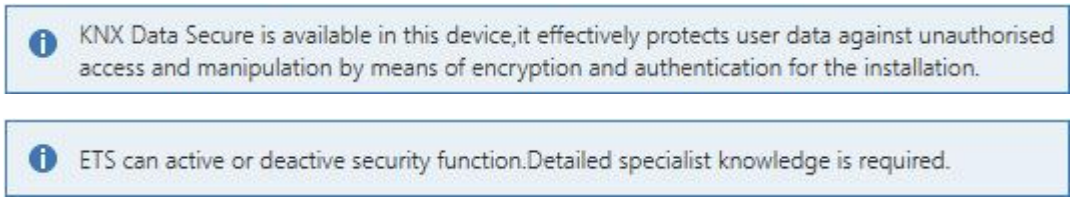
5.1. KNX

KNX 3 6 KNX KNX k

k

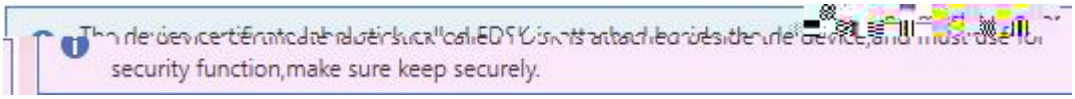
5.1 (1) “KNX Secure”

KNX KNX ETS 5.1(1)



KNX

k ETS k k



FDSK k

ETS

❖ KNX k

KNX

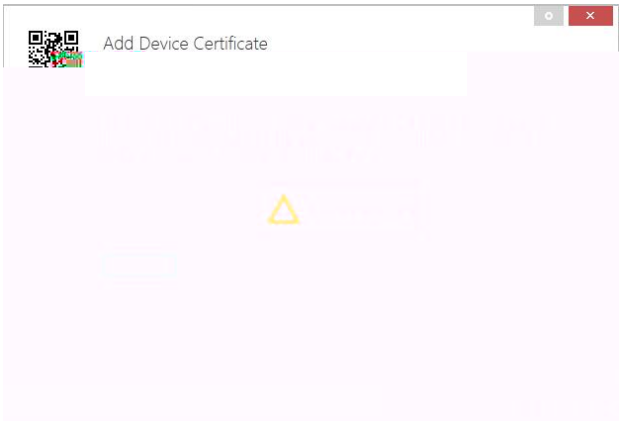
k

❖ KNX k FDSK =

ETS

✧ ETS 5.1 (2) k

QR k



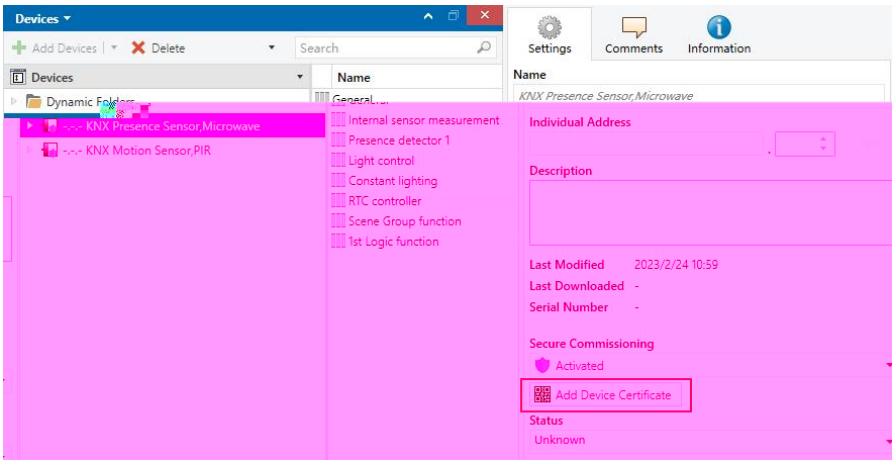
5.1(2) Add Device Certificate

✧ ETS k

“Security” 5.1(3) k

“Add Device Certificate” 5.1(4) k

5.1(3) Add Device Certificate



5.1(4) Add Device Certificate

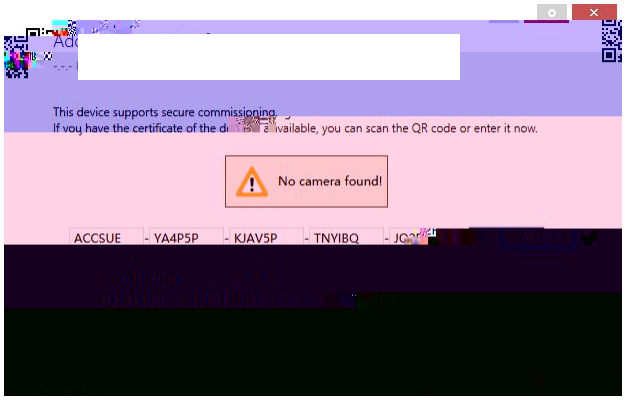
✧ FDSK k

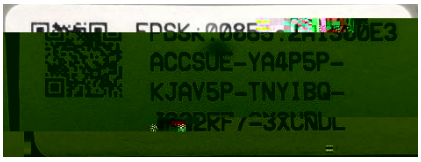
FDSK **KNX** k

FDSK FDSK ETS 5.1(5) k

ETS

FDSK k



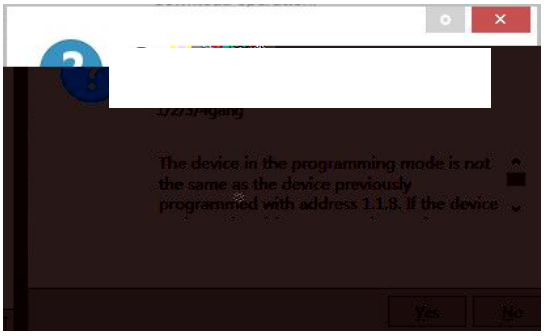


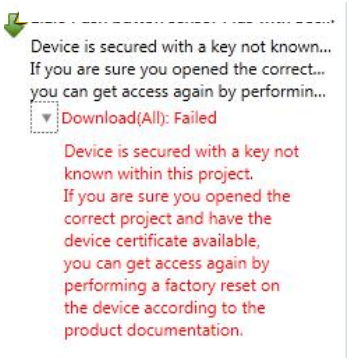
5.1(5)

k

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

5.1(6) k

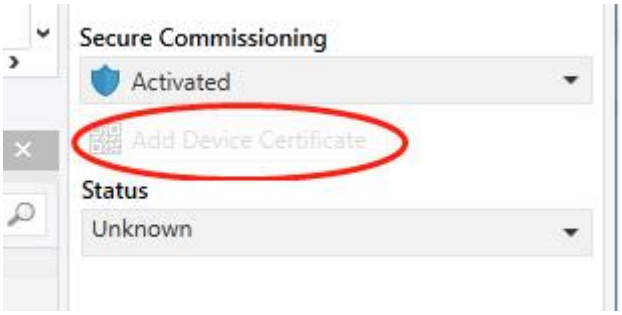




5.1(6)

FDSK k

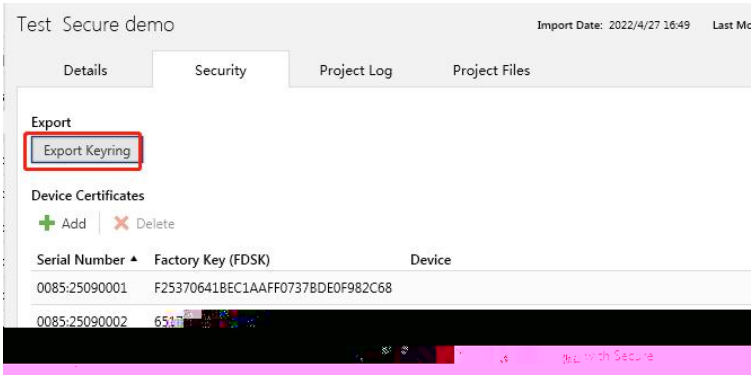
“Add Device Certificate” k



4.1(7)

ETS

5.1(8) .knxkeys k



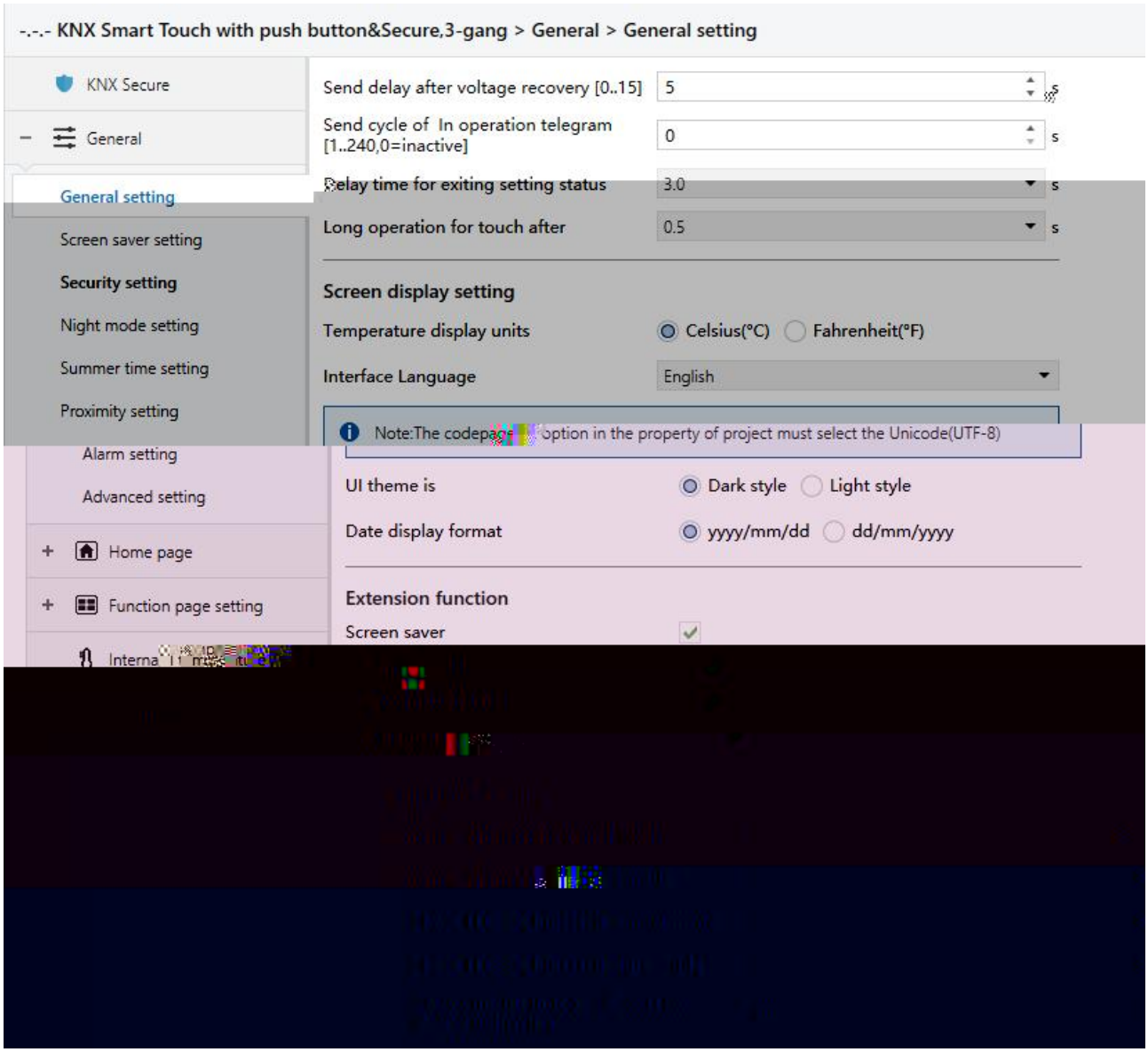
5.1(8)

KNX USB , ETS

k

5.2. “General”

5.2.1. “General setting”



5.2.1 “General setting”

"Send delay after voltage recovery [0..15]s"

k **0..15**

k

"Send cycle of In operation telegram [1..240,0=inactive]s"

k "0" "In operation" k "0" "In operation" "1"

k **0…240 0=**

k

"Delay time for exiting setting status"

! ! k

UI k

0.5s
1.0s
2.0s
3.0s

"Long operation for touch after"

k

0.5s
1.0s
2.0s
3.0s

Screen display setting

"Temperature display units"

k

Celsius(°C)

Fahrenheit(°F)

"Interface Language"

k

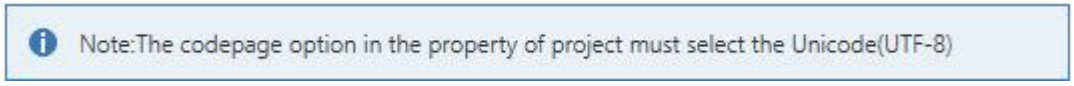
Chinese(Simplified) ( ) **Spanish**

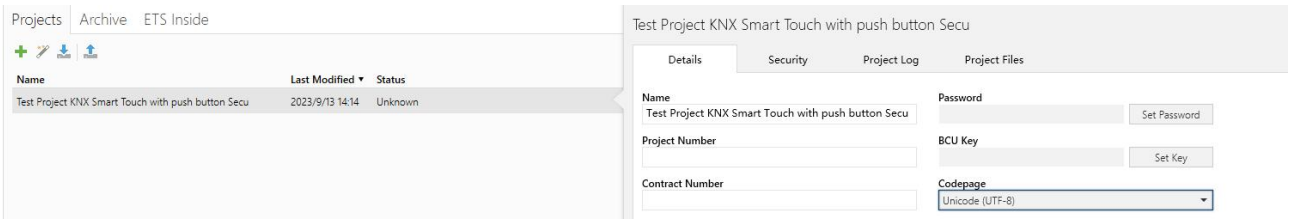
Chinese(Traditional) ( ) **Russian**

English **Italian**

German **Greek**

French **Other**





“Language name”

“Other” k

k k k

“UI theme is”

k

Dark style

Light style

“Date display format”

k

yyyy/mm/dd

dd/mm/yyyy

Extension function

“Screen saver”

k

“Night mode”

k

“Proximity function”

k

“Alarm function”

k

Brightness setting

"Screen brightness in normal mode"

(/) k

10%

20%

...

100%

"Screen brightness in night mode"

k (/) k

10%

20%

...

100%

Unchanged

/ "Screen brightness"

k

"Unchanged" "Screen brightness"

k

"Status LED brightness in normal mode"

LED k

0%

5%

10%

20%

...

70%

"Status LED brightness in night mode"

k LED k

0%

5%

10%

20%

...

70%

"Delay time for turn off LED&screen [0...255,0=inactive]s"

k 0

k **0...255,0=inactive**

0

k

Note: It is only recommend that this option is used for demonstration purpose,screen may be damaged when permanent on for long time

"Screen on/off function"

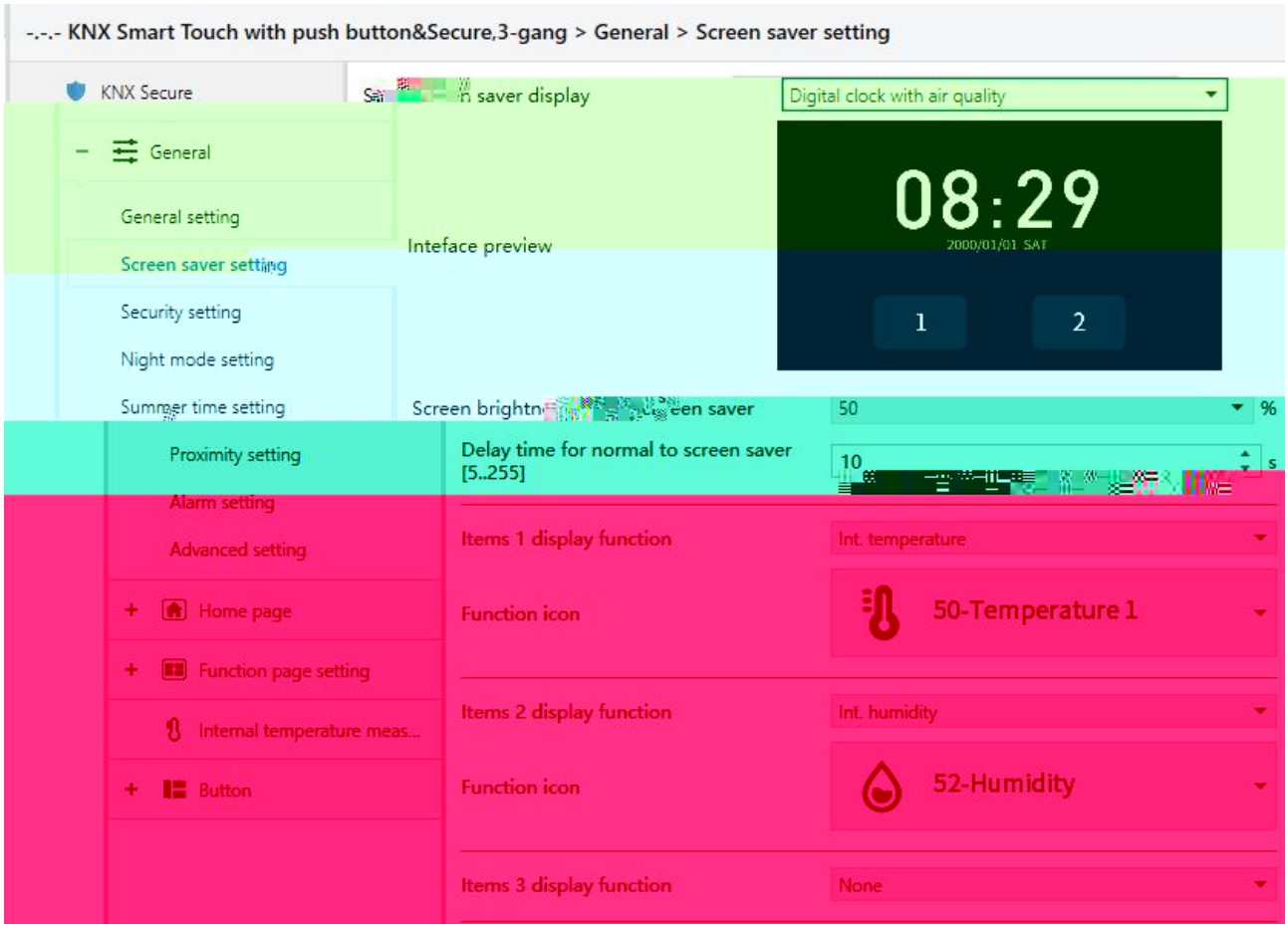
0 k 1bit "Screen on/off"

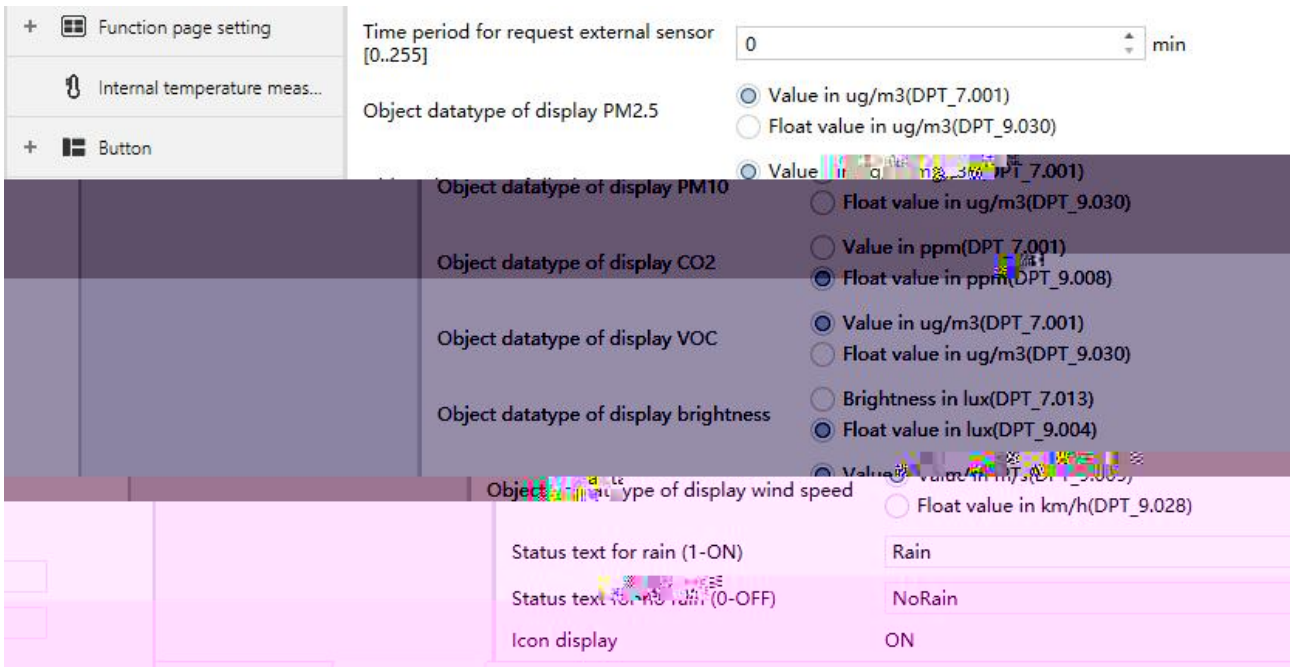
/ LED / k LED k

Only apply to screen

Apply to Both Screen and Status LED **LED**

5.2.2. “Screen saver setting”





5.2.2 “Screen saver setting”

"Screen saver display"

k k

Clock

Digital clock with air quality

Album(3 pictures)

Album(1 pictures)

Clock k

Digital clock with air quality k

Album(...) k 3

5s k

U

k

"Screen brightness in screen saver"

k

10%

20%

...

50%

"Delay time for normal to screen saver [5..255]s"

k **5..255**

Digital clock with air quality

'Items x display funcm m

"Object datatype of display CO2"

CO2 k

Value in ppm(DPT_7.001)

Float value in ppm(DPT_9.008)

"Object datatype of display brightness"

k

Brightness in lux(DPT_7.013)

Float value in lux(DPT_9.004)

"Object datatype of display wind speed"

k

Value in m/s(DPT_9.005)

Float value in km/h(DPT_9.028)

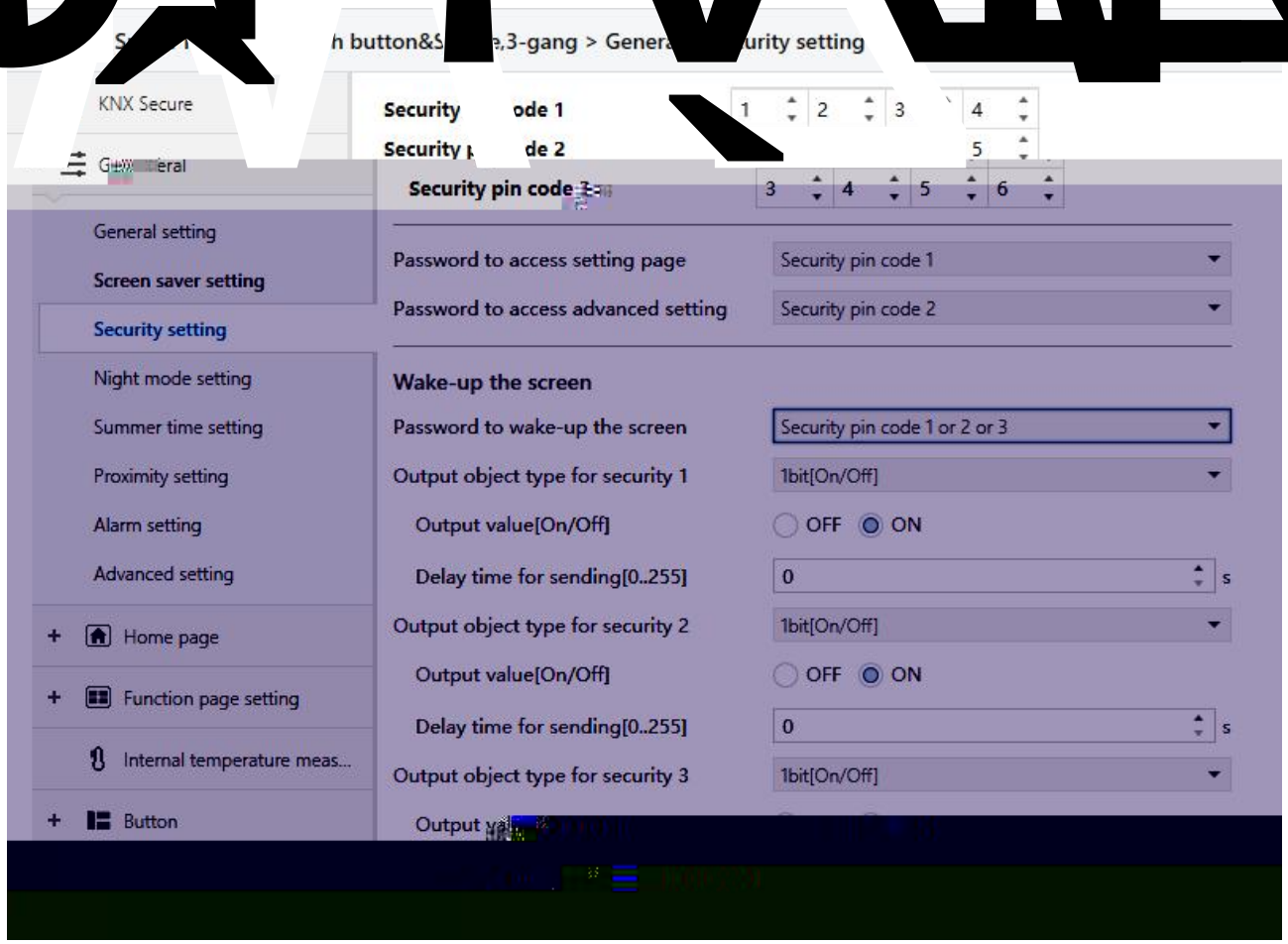
"Status text for rain (1-ON)"

"Status text for no rain (0-OFF)"

k

"Icon display"

k **ON**



5.2.3 “Security setting”

k 3 k

4

"Password to access advanced setting"

k

None

Security pin code 1

Security pin code 2

Security pin code 3

Wake-up the screen setting

"Password to wake-up the screen"

k

k k

None

Security pin code 1

Security pin code 2

Security pin code 3

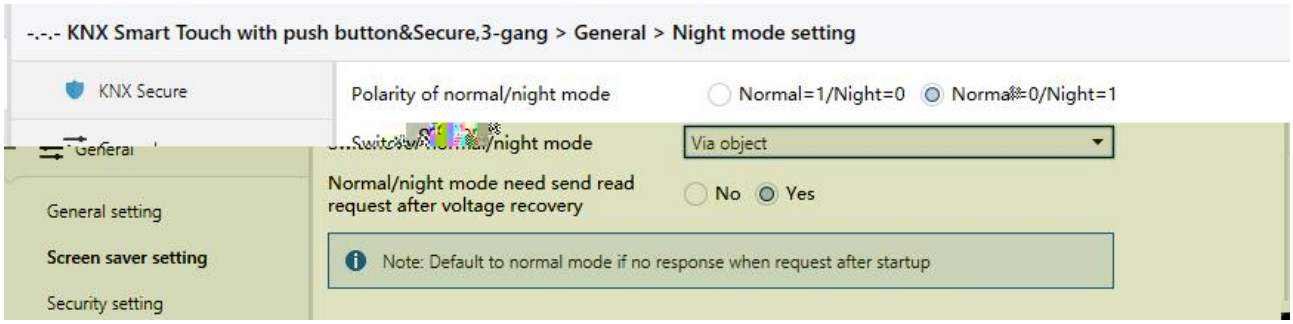
Security pin code 1 or 2

Security pin code 1 or 3

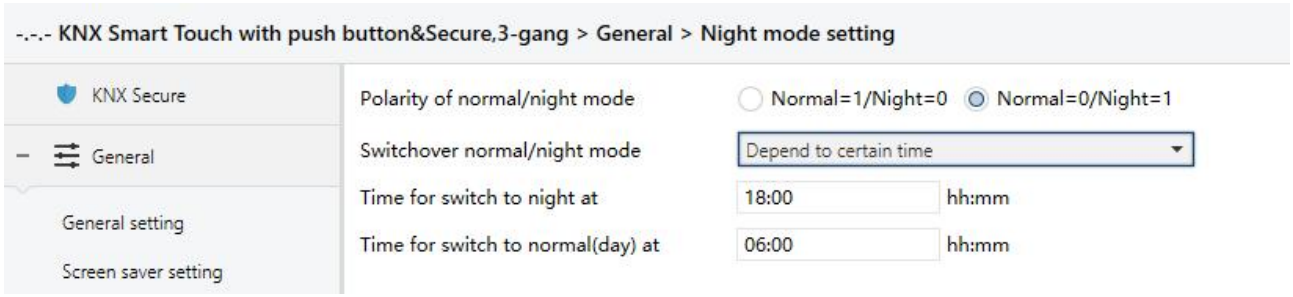
Security pin code 2 or 3

Security pin code 1 or 2 or 3

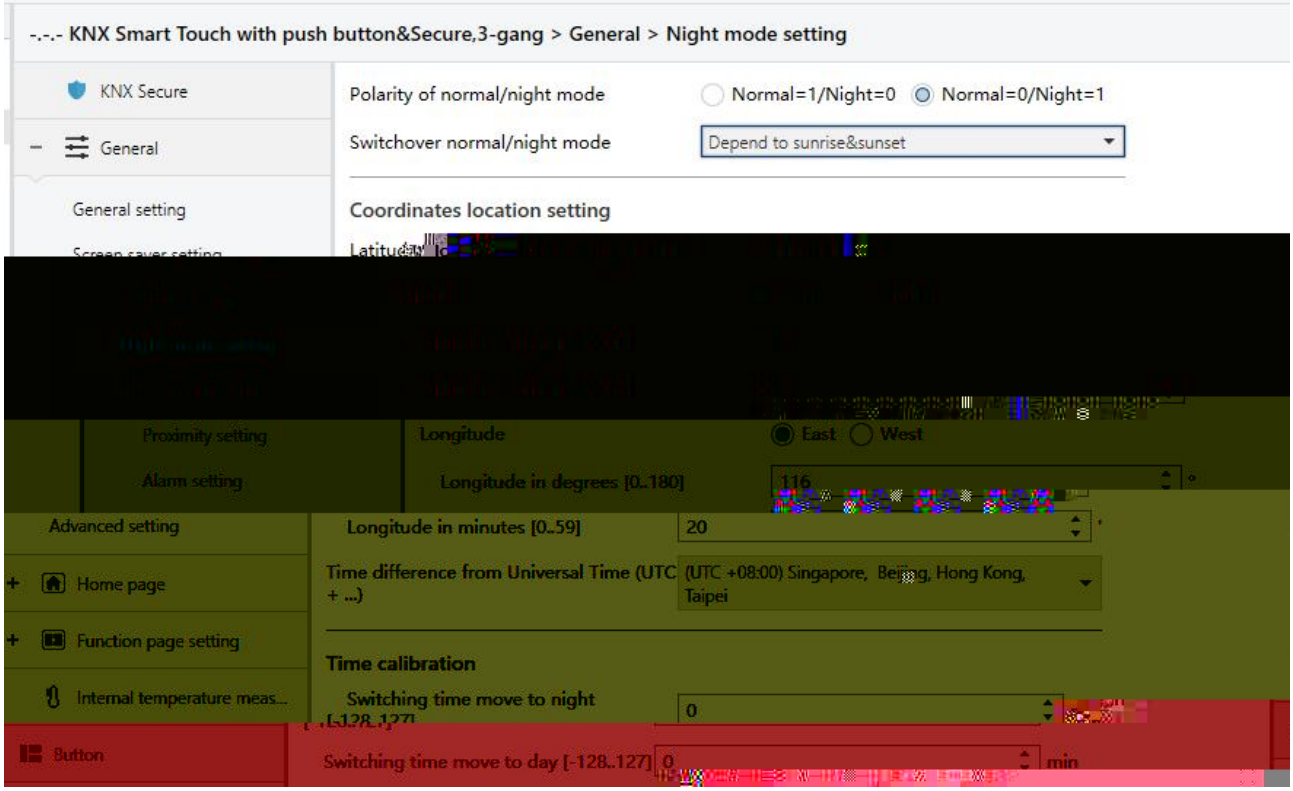
5.2.4. “Night mode setting”



Via object



Depend to certain time



Depend to sunrise&sunset

5.2.4 “Screen saver setting”

"arity 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 ! LED !

k

“Depend to certain time” k

- **“Time for switch to night at”**

  k **00:00-23:59**

- **“Time for switch to normal(day) at”**

  k **00:00-23:59**

“Depend to sunrise&sunset” k

Coordinates location setting

- **“Latitude longitude setting location”**

  “Beijing,China” k

- **“Latitude”**

  k

  North

  South

- **“Latitude in degrees [0-..90-]”**

- **“Latitude in minutes [0'..59']”**

  k 39°56' k

- **“Longitude”**

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

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

5.1.5 k

5.2.5. “Summer time setting”

5.2.5 “Summer time setting”

“Changeover of summer time”

k

No active

Always

Customized

No active: k

Always k

Customized setting k

“Customized”, 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

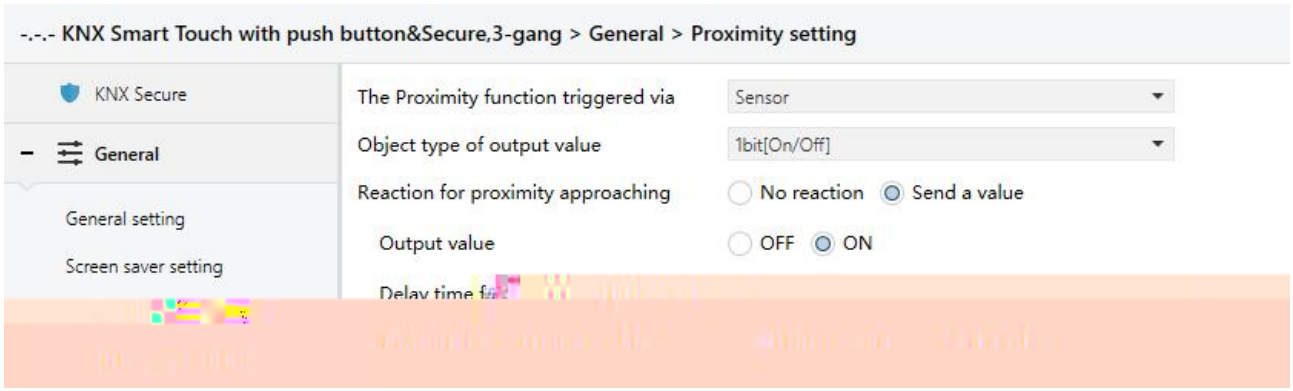
...

Sunday

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

k **00:00-23:59**

5.2.6. “Proximity setting”



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

“Object type of output value”

k

1bit[On/Off]

1byte[scene control]

1byte[0..255]

1byte[0..100%]

“Reaction for proximity approaching”

Reaction for proximity leaving

k

No reaction

Send a value

- **“Output value”**

“Send a value” k

k

- **“Delay time for sending [0..65535]s”**

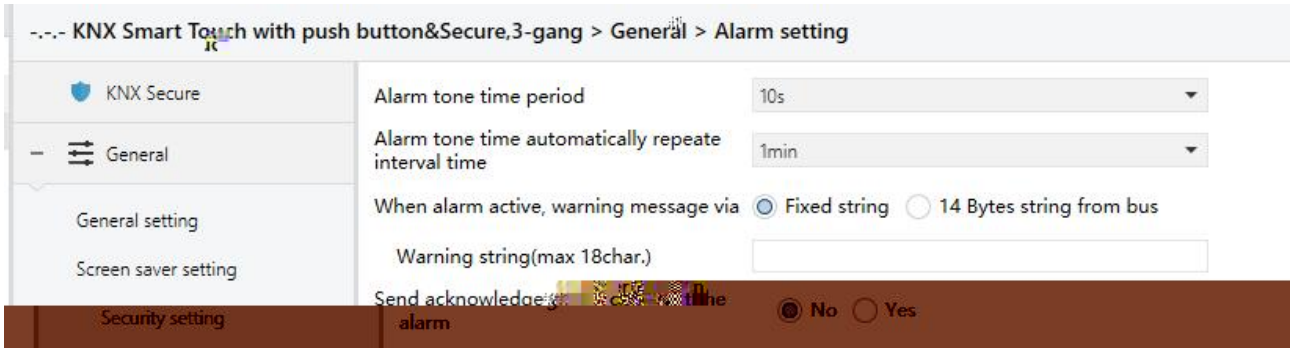
“Send a value” k k

0..65535

5..65535

k

5.2.7. “Alarm setting”



5.2.7 “Alarm setting”

”Alarm tone time period”

k

k

Disable

10s

20s

...

25min

30min

Disable

k

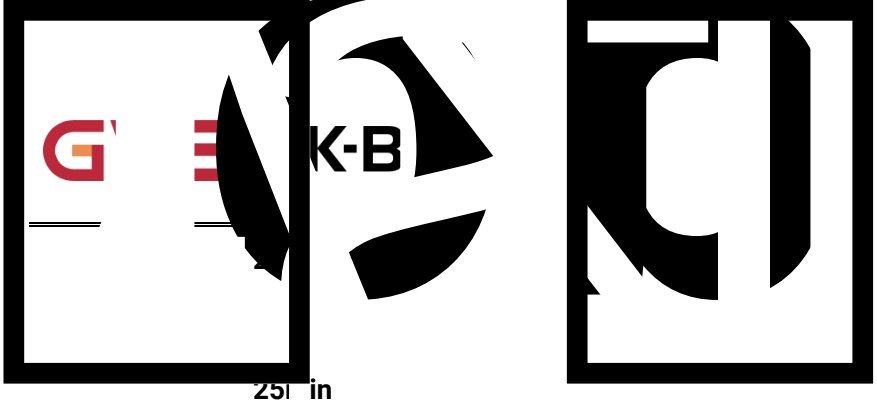
“Alarm tone time automatically repeate interval time”

k

k

Disable

10s



25l in

30l in

Disable

k

e, warning message via"—

ETS

14byte k

Fixed string

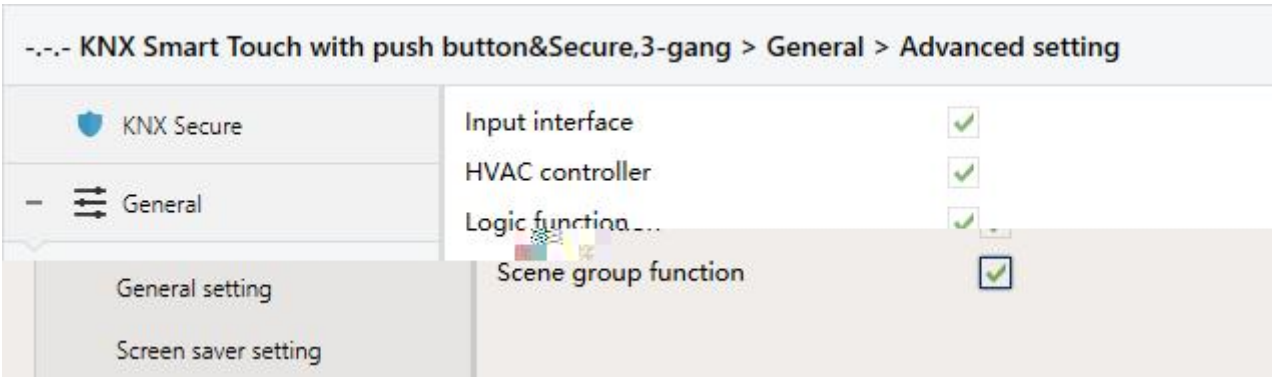
14 Bytes string from bus

"14 Bytes string from bus"

! ! **UTF-8**

ISO8859 k

5.2.8. “Advanced setting”



5.2.8 “Advanced setting”

“Input interface”

k

“HVAC controller”

HVAC k

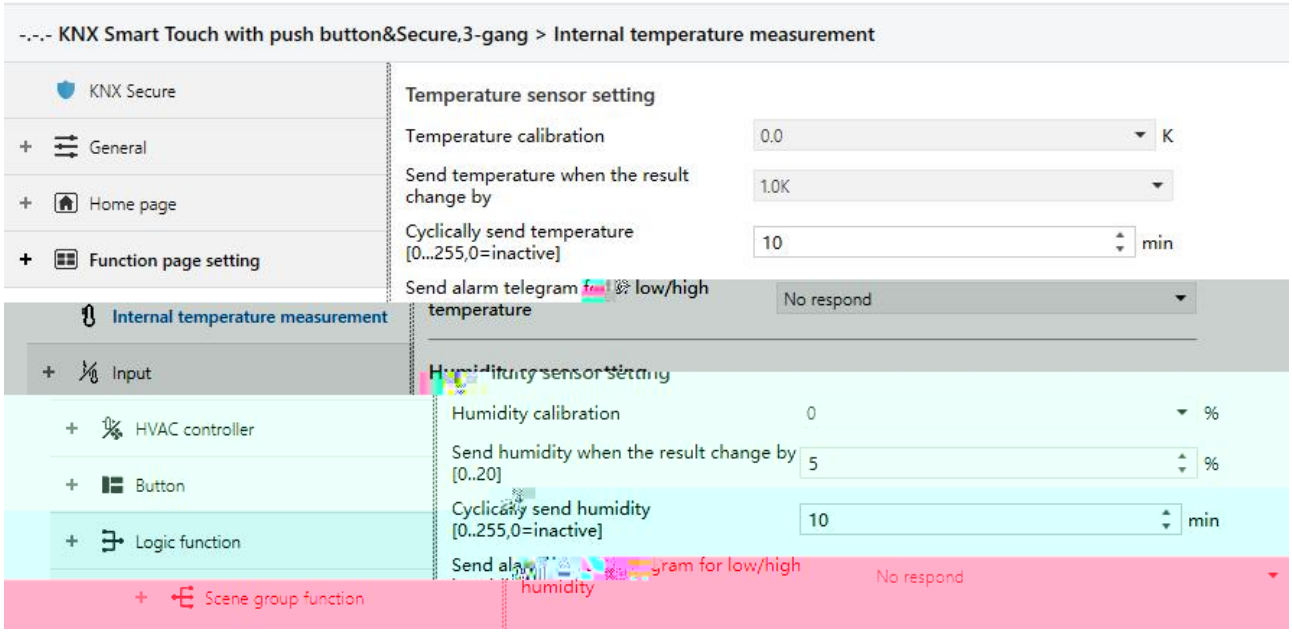
“Logic function”

k

“Scene group function”

k

5.3. “Internal temperature measurement”



5.3 “Internal temperature measurement”

/ !

k

Temperature sensor setting

“Temperature calibration”

k

-5K

...

0K

...

5K

30

k

"Send temperature when the result change by"

k Disable k

Disable

0.5K

1.0K

...

10K

"Cyclically send temperature [0...255,0=inactive]min"

k 0 k **0..255**

k

"Send alarm telegram for low/high temperature"

/ k

No respond

Respond after read only

Respond after change

No respond

Respond after read only

" Low temperature alarm"/" High temperature alarm"

Respond after change " Low temperature alarm"/" High temperature alarm" k

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

“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**

5.4. “Input”

5.4 “Input”

“Function of input x”(x=1, 2)

k k

k

Disable

Temperature probe(NTC 10K)

BI: Switch sensor

BI: Scene control

BI: Send String(14bytes)

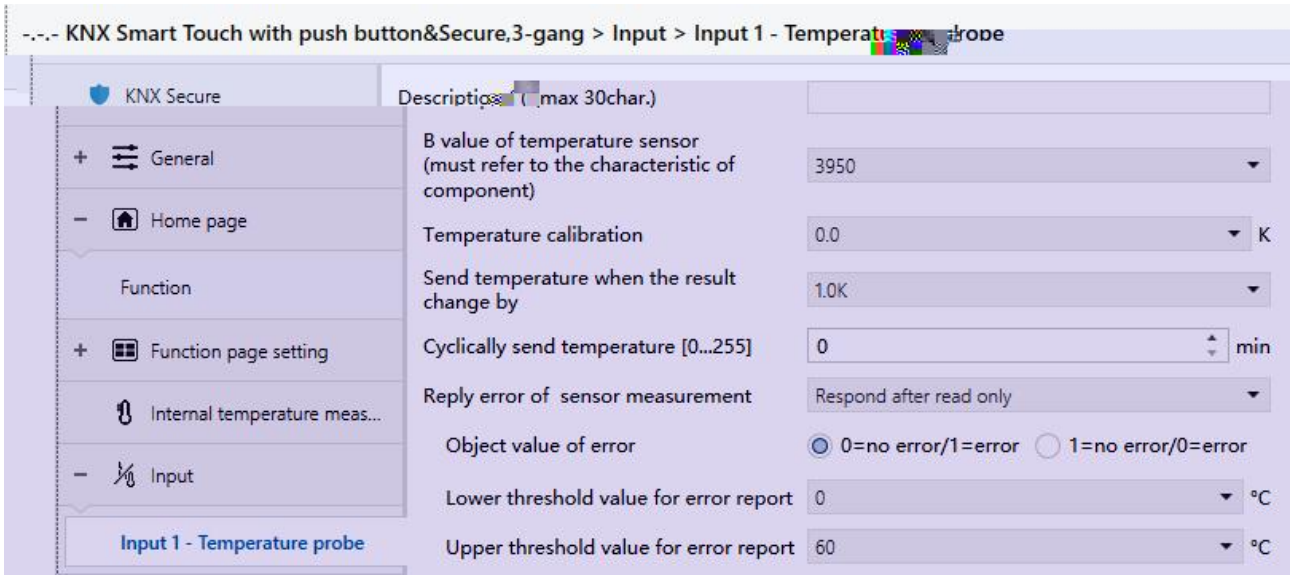
B

! ! / /

k

k

5.4.1.



5.4.1

"Description (max 30char.)"

k

"B value of temperature sensor(must refer to the characteristic of component)"

NTC B k

3275

3380

...

4200

k **B**

k

"Temperature calibration"

k

-5K

...

0K

...

5K

"Send temperature when the result change by"

k Disable k

Disable

0.5K

1.0K

...

10K

"Cyclically send temperature [0...255,0=inactive]min"

k 0 k **0..255**

"Reply error of sensor measurement"

k

No respond

Respond after read only

Respond after change

No respond

Respond after read only

" Temperature error report, Sensor"

Respond after change " Temperature error report, Sensor"

k

"Respond after read only" "Respond after change" k

“Object value of error”

k

0=no error/1=error

1=no error/0=error

0=no error/1=error 0 1

1=no error/0=error k

“Lower threshold value for error report”

k k

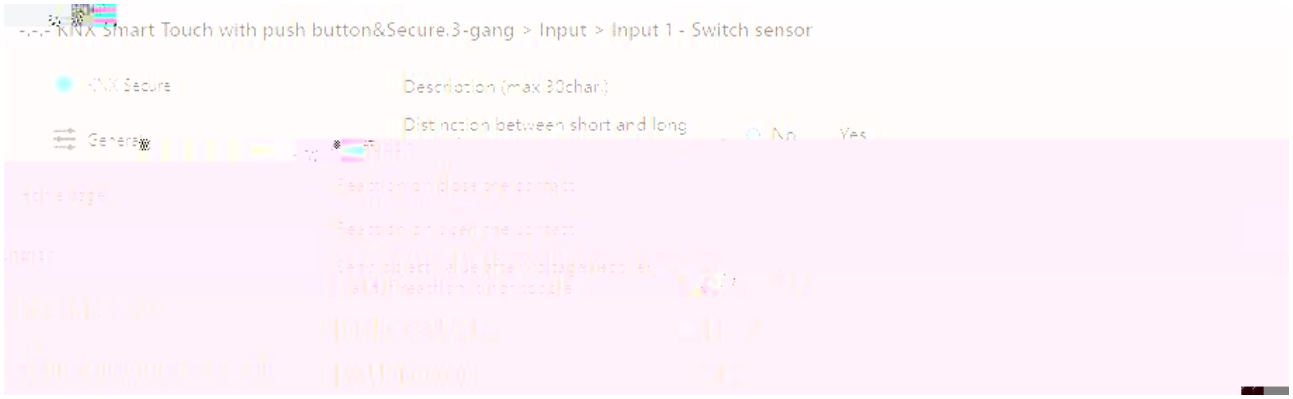
10°C / 5°C / 0°C / -5°C / -10°C / -20°C

“Upper threshold value for error report”

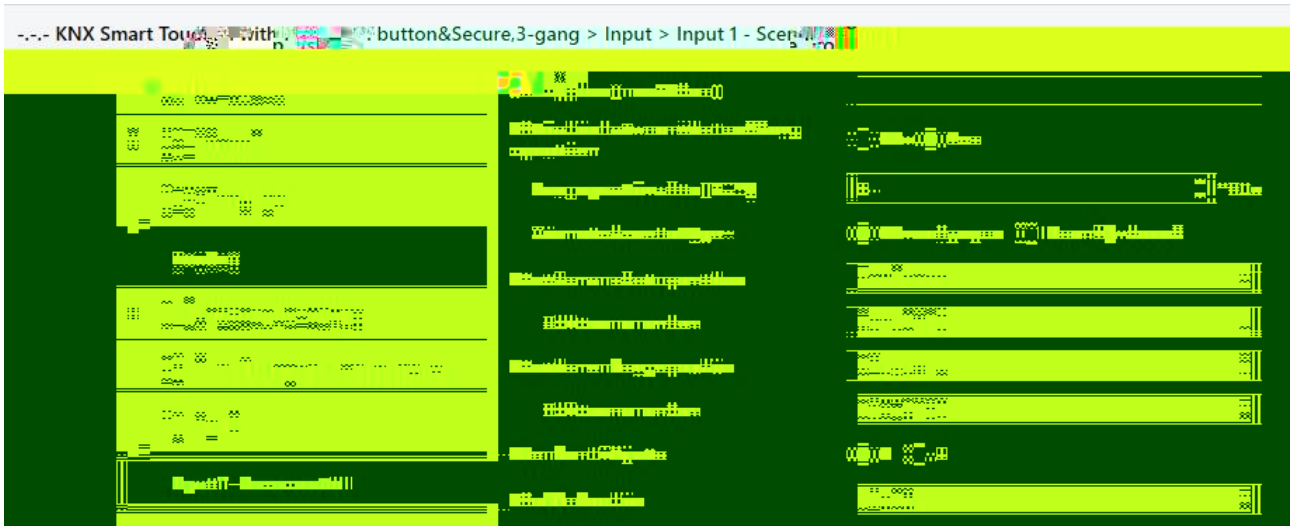
k k

40°C / 45°C / 50°C / 55°C / 60°C / 70°C

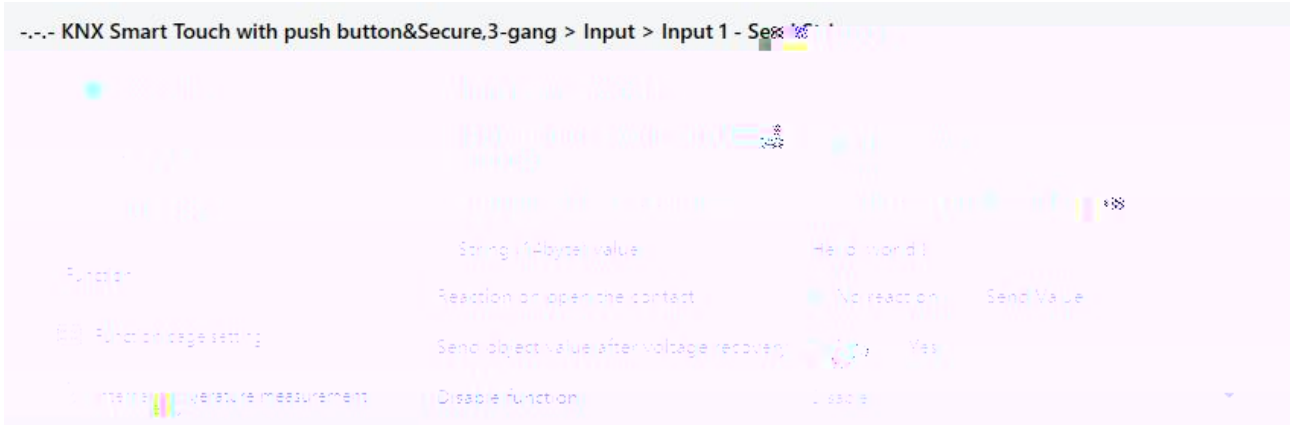
5.4.2.



5.4.2(1)



5.4.2(2)



5.4.2(3)

"Description (max 30char.)"

k

"Distinction between short and long operation"

k

No

Yes

"Long operation after [3..25]*0.1s"

/ k

k **3..25**

"Connected contact type"

/ k k

Normally open

Normally closed

"BI: Switch sensor", k

"Reaction on short/long operation"

/ k

k

No reaction

OFF

ON

TOGGLE

No action k

ON k

OFF k

TOGGLE k

- **“Reaction on close/open the contact”**

/ k

k

No reaction

OFF

ON

TOGGLE

- **“Send object value after voltage recovery (valid if reaction is not toggle)”**

/ “TOGGLE” “No reaction”

k

No

Yes

“BI: Scene control”, k

- **“Reaction on short/long operation”**

/ k

k

No reaction

Recall scene

Store scene

- **“Reaction on close/open the contact”**

/ k

k

No reaction

Recall scene

Store scene

- **“8 bit scene number”**

“Recall scene” “Store scene” k

Scene NO.1~64 **0~63**

“BI: Send String(14bytes)”, k

- **“Reaction on short/long operation”**

/ k

No reaction

Send Value

- **“Reaction on close/open the contact”**

/ k

No reaction

Send Value

- **“String (14byte) value”**

“Send Value” k k

“Send object value after voltage recovery”

/ k

No

Yes

”Number of objects”

“Reaction on long/open operation” “No reaction” k /

1 2 k

1

2

”Disable function”

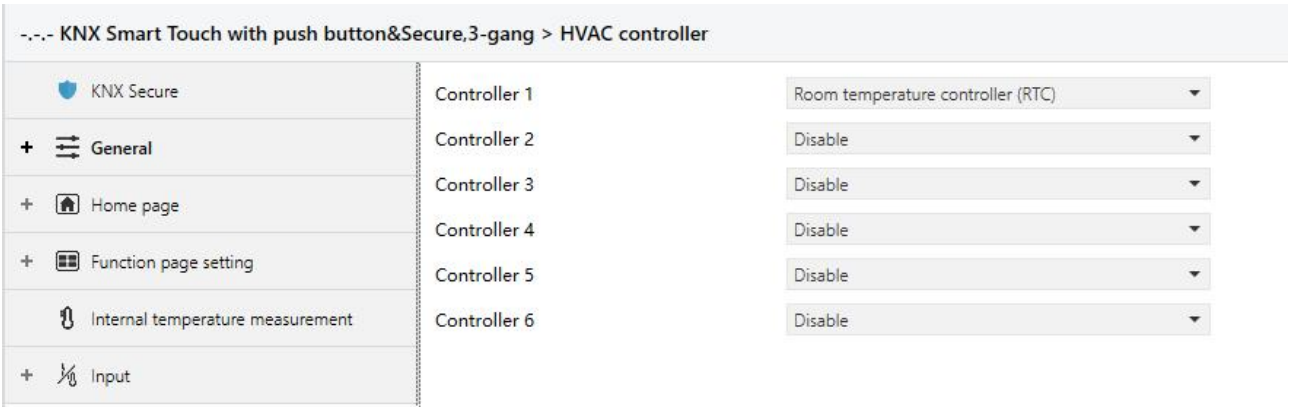
k / k

Disable

Disable=1/Enable=0

Disable=0/Enable=1

5.5. “HVAC controller”



5.5“HVAC controller”

“Controller 1/2/3/...”

HVAC k 6

k

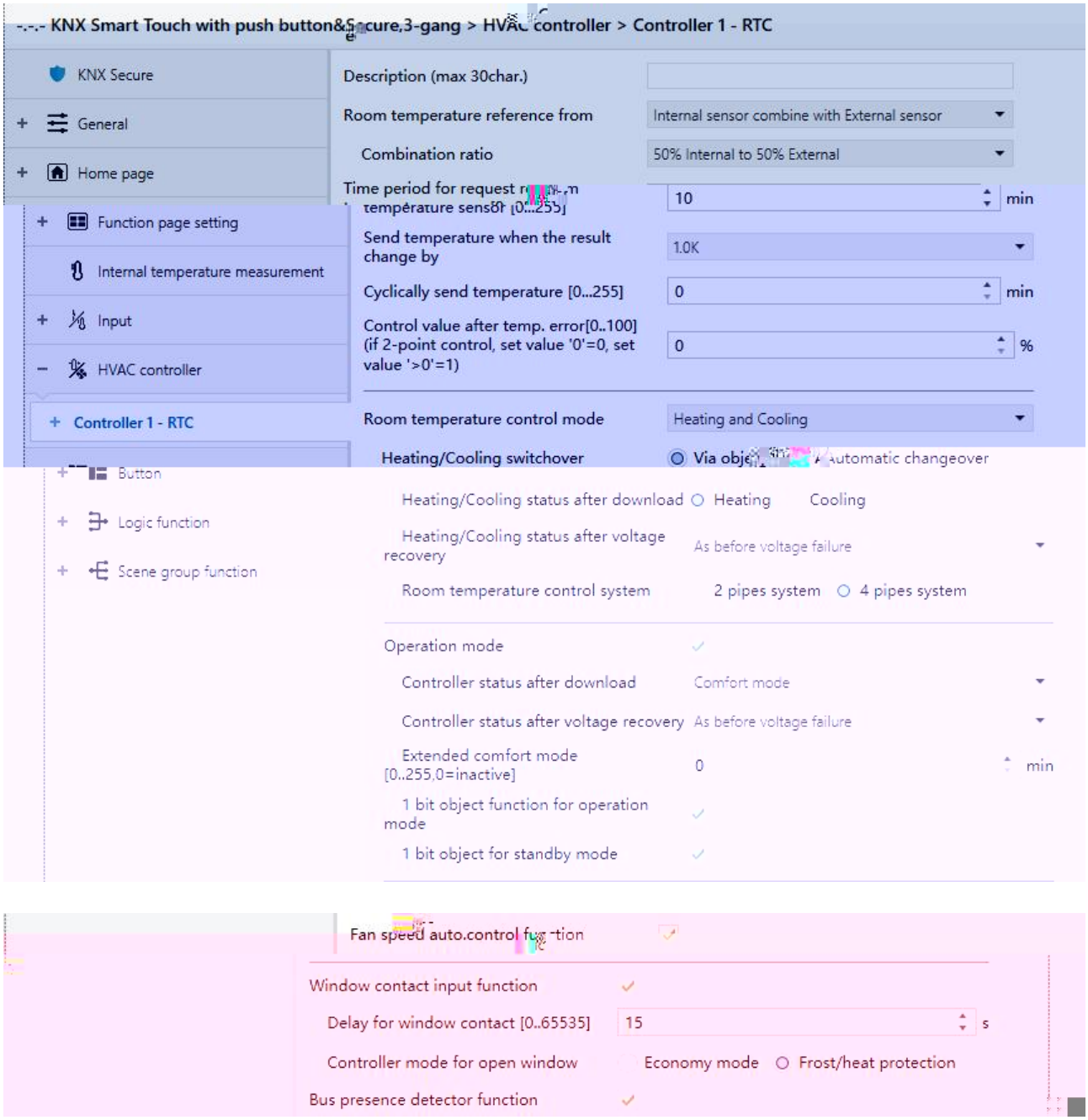
Disable

Room temperature controller (RTC)

Ventilation controller

k

5.5.1. “Controller x - RTC”(x=1~6)



5.5.1 “Controller x - RTC”

"Description (max 30char.)"

k

"Room temperature reference from"

k

Internal sensor

External sensor

Internal sensor combine with External sensor

"Internal sensor" 5.3 k

"Time period for request room temperature sensor [0...255]min"

"...External sensor" k k

0..255

"Internal sensor combine with External sensor" **k**

"Combination ratio"

k

10% Internal to 90% External

20% Internal to 80% External

...

90% Internal to 10% External

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

= ×40% + ×60%

k

k

“Send temperature when the result change by”

k Disable k

Disable

0.5K

1.0K

...

10K

“Cyclically send temperature [0...255]min”

0 k **0..255**

k

“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

"Operation mode"

RTC k

! ! 4 1bit 1byte

k

k

“Controller status after download”

RTC k

Comfort mode

Standby 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

k

• • **“Initial setpoint temperature (-C)”**

k

10.0

10.5

...

35.0

Automatic H/C mode changeover dead zone /

• • **“ Upper/Lower dead zone”**

“Heating and Cooling” “Automatic changeover” k

/ k

0.5K

1.0K

...

10K

+

-

“Fan speed auto control function”

“Window contact input function”

RTC k k

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

RTC k

Y k **0..65535**

“Controller mode for open window”

RTC k open

k

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

RTC k k

k

5°C

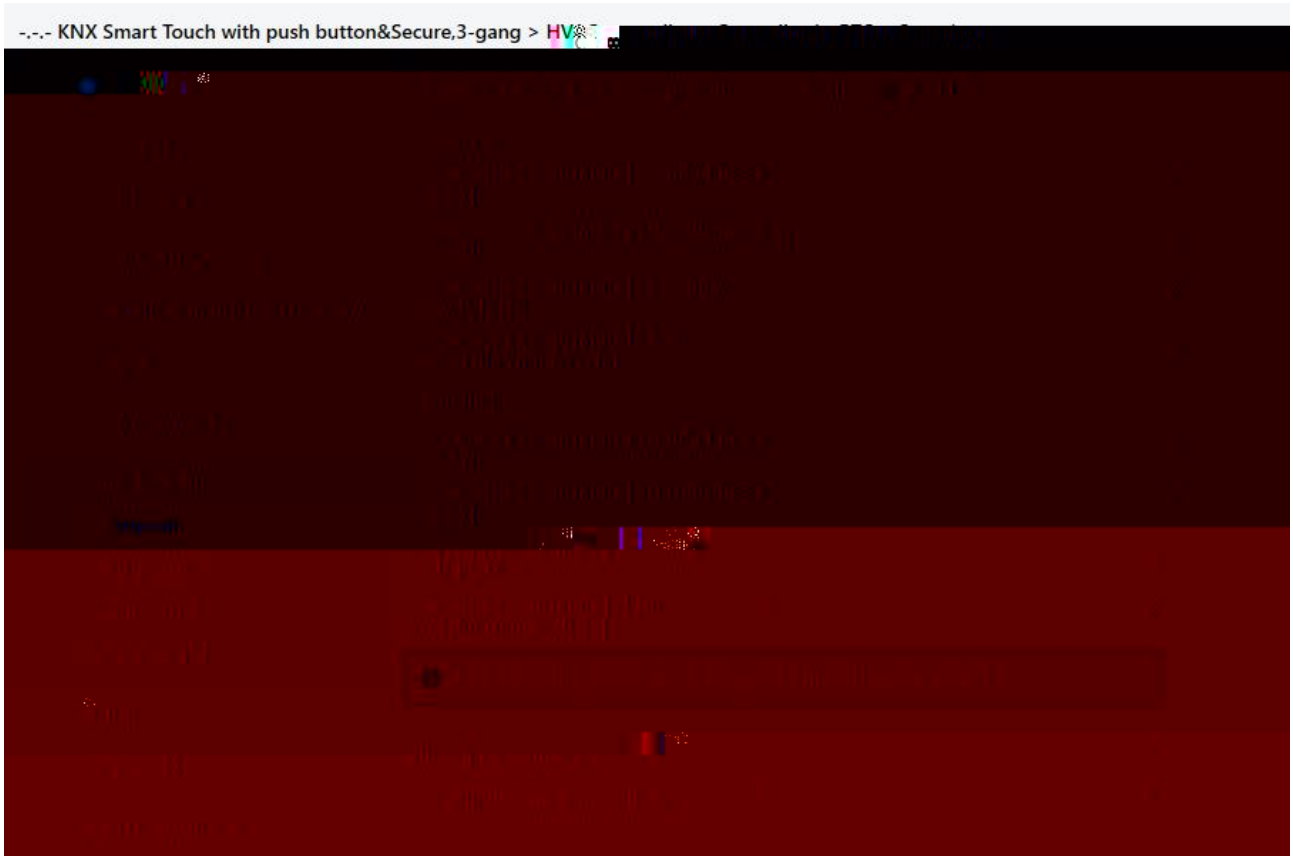
6°C

...

37°C

RTC “Setpoint” k

5.5.1.1. “Setpoint”



(1)

5.5.1.1 “Setpoint”

RTC k

“Setpoint method for operating mode”

k

Relative

Absolute

Relative k

Absolute k

k

"Base setpoint temperature (-C)"

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

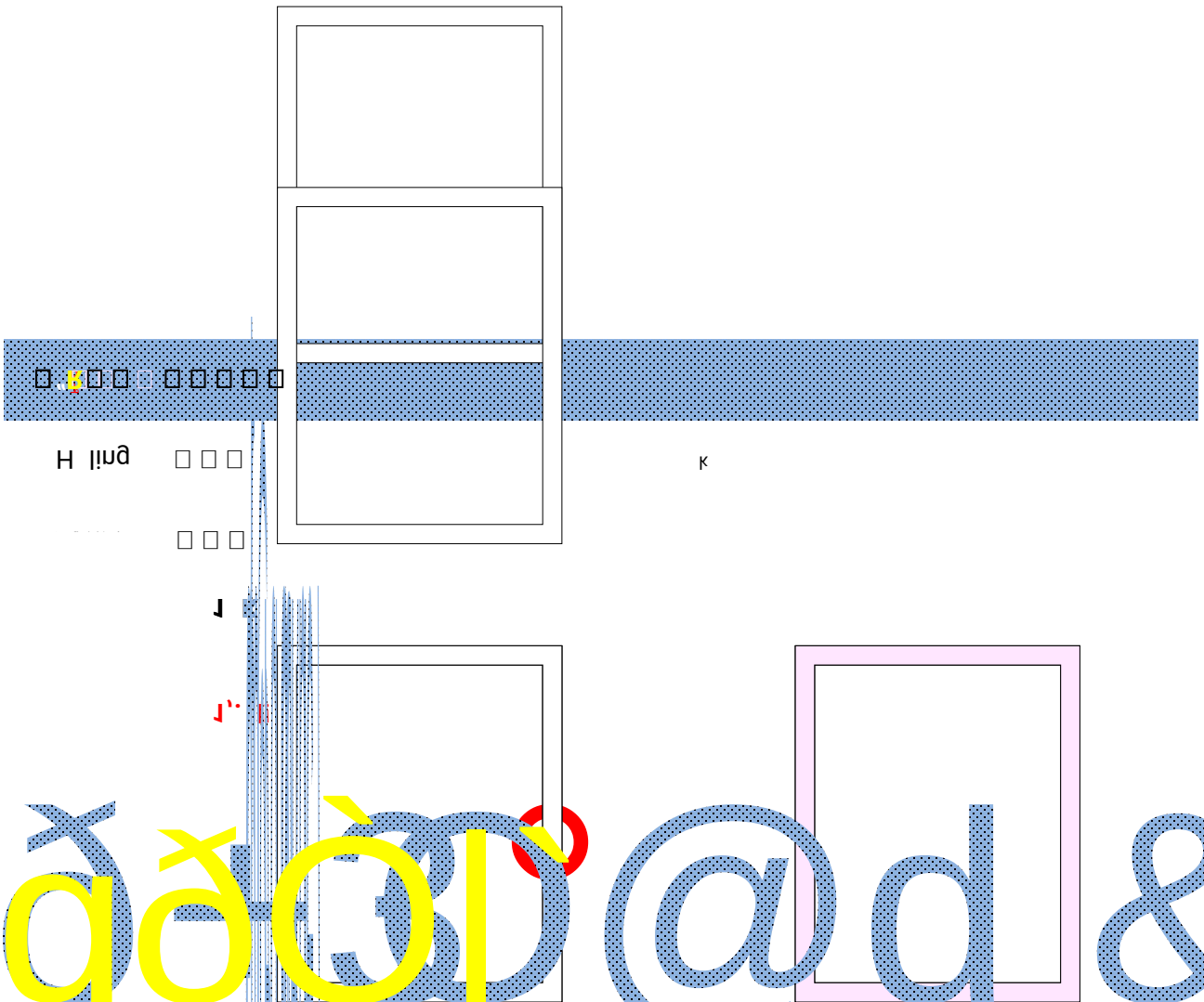
...

10K

Heating

Cooling k

R



H

J

30°C

31°C

...

37°C

k

k

"Setpoint temperature in comfort mode [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]-C"

k

5°C

6°C

...

10°C

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

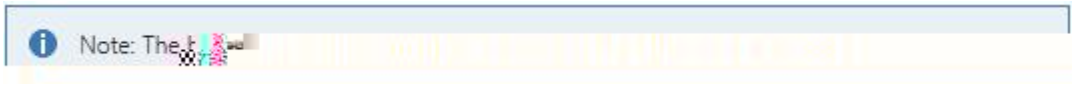
k

30°C

31°C

...

37°C



Heating and Cooling **Automatic changeover**

k **Via object** k

1.

k

2. k

k

3.

/

k

4.

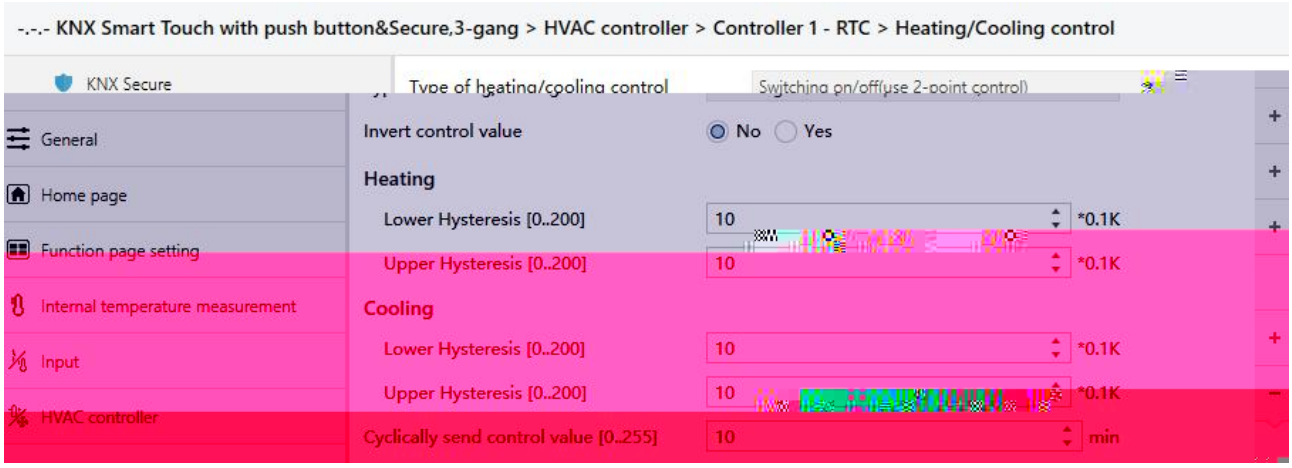
k

2 ! 4 Via object k

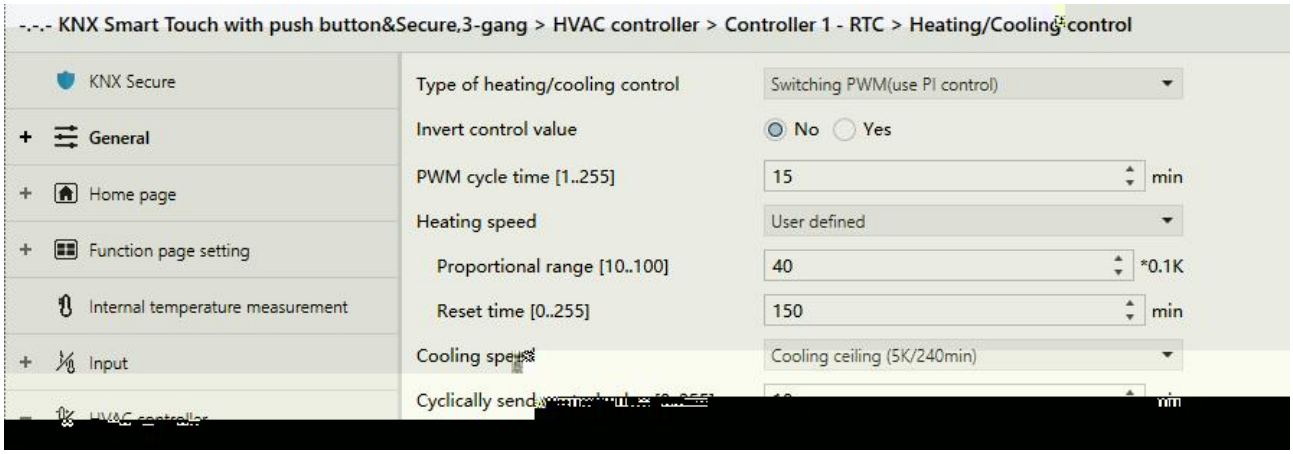
/ **ETS** k **ETS**

k

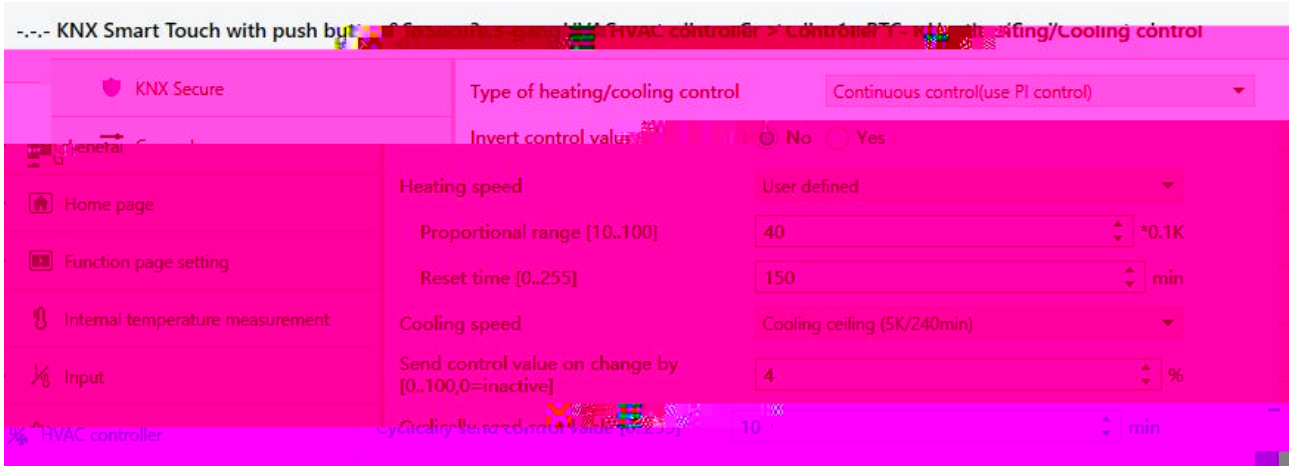
5.5.1.2. “Heating/Cooling control”



“Switching on/off(use 2-point control)”



“Switching PWM(use PI control)”



“Continuous control(use PI control)”

5.5.1.2(1) “Heating/Cooling control”

2 4 k

"Type of heating/cooling control"

/ k

Switching on/off(use 2-point control)

Switching PWM(use PI control)

Continuous control(use PI control)

"Invert control value"

k

No

Yes

Yes k

(2 point control)

"Lower Hysteresis [0...200]*0.1K "

"Upper Hysteresis [0...200]*0.1K "

RTC k **0..200**

T > +

T < - k

1K 2K 22℃ T 24℃

T 21℃ T 21~24℃ k

T < -

T > + k

1K 2K 26℃ T 25℃

T 28℃ T 28~25℃ k

1. □ □ □

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”(P value)

“Reset time [0..255]min”(I value)

“User defined” k PI PI k

10..100 (P value)

0..255 (I value)

“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

“Send control value on change by [0...100,0=inactive]%”

“Continuous control (use PI control)”

k **0..100 0**

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

k **0..255**

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	--

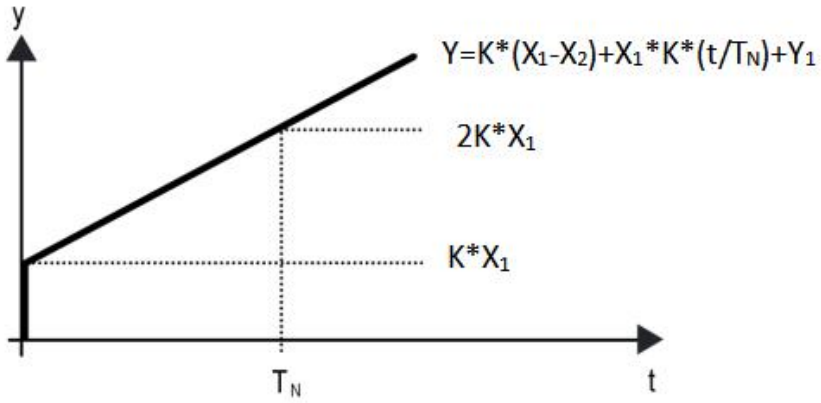
3

“Heating/Cooling speed” “User defined” P

I k PI

k

k 0 k



5.4.1.2(3) PI

Y

Y1

X1 =

X2 =

T_N

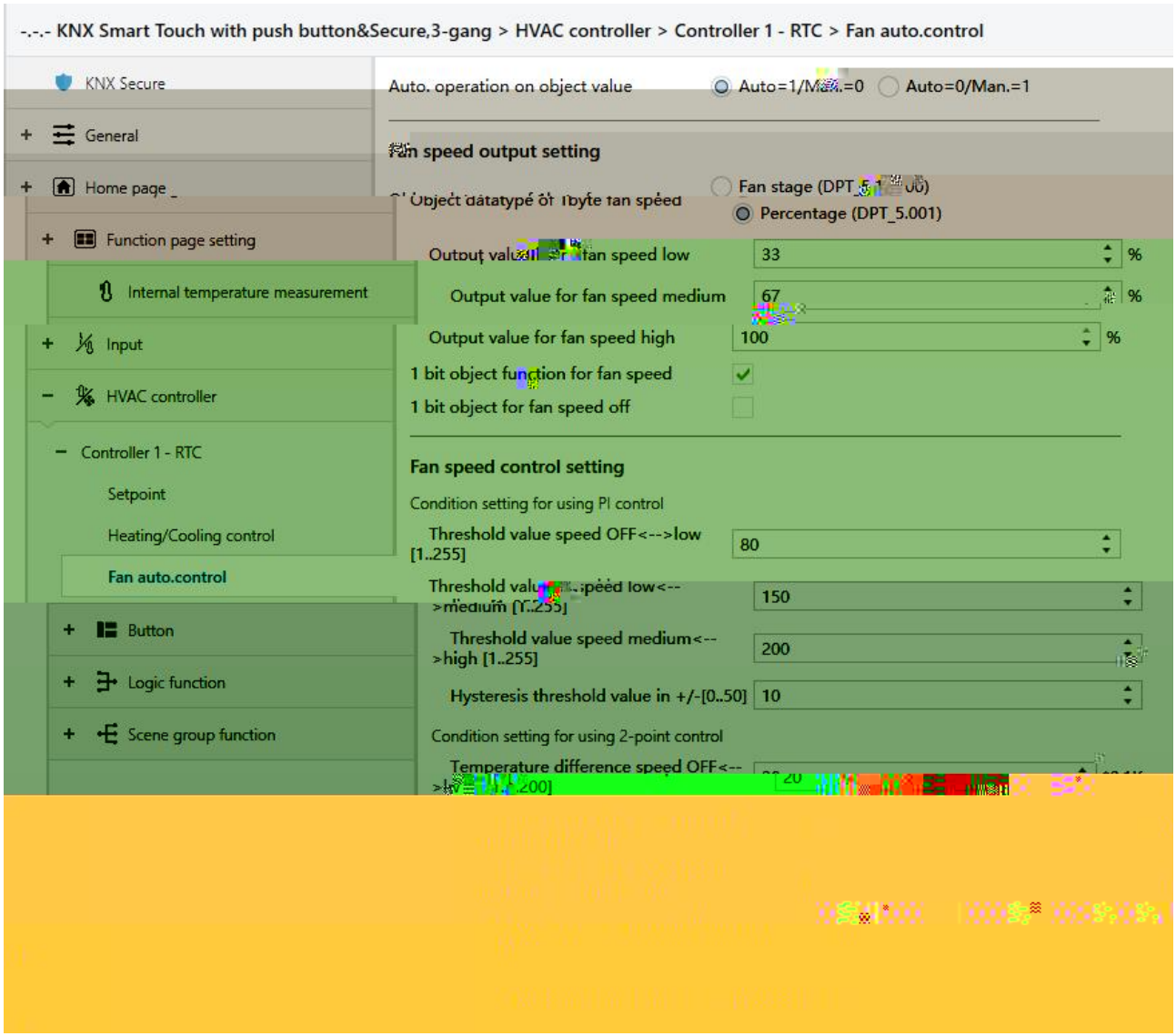
K

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

PI Y=K X1-X2 +Y2

K:	
K:	
T_N:	
T_N:	

5.5.1.3. “Fan auto.control”



5.5.1.3 “Fan auto.control”

k

“Auto. operation on object value”

k

Auto=1/Man.=0

Auto=0/Man.=1

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

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

k

k

Fan speed output setting

“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”

k 0 k

1..255 /1..100

“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**

k

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

k

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

K

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

k

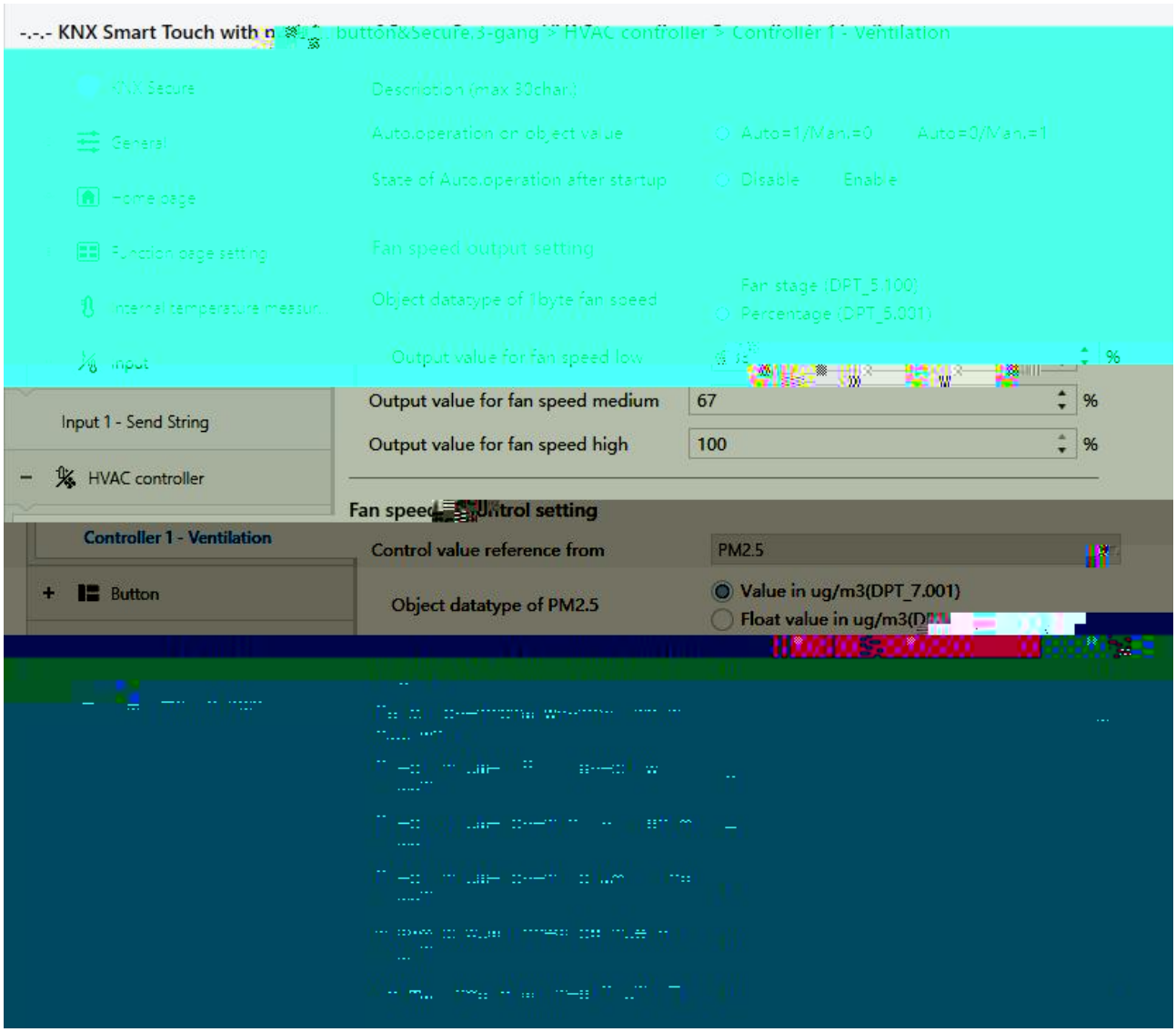
k

k **0..65535**

0 k

k

5.5.2. “Controller x - Ventilation”(x=1~6)



5.5.2 “Controller x - Ventilation”

”Description (max 30char.)”

k

”Auto. operation on object value”

k

Auto=1/Man.=0

Auto=0/Man.=1

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

k

k

“State of Auto operation after startup”

k

Disable

Enable

Fan speed output setting

“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”

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

"Time period for request control value [0...255]min"

2min 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]"

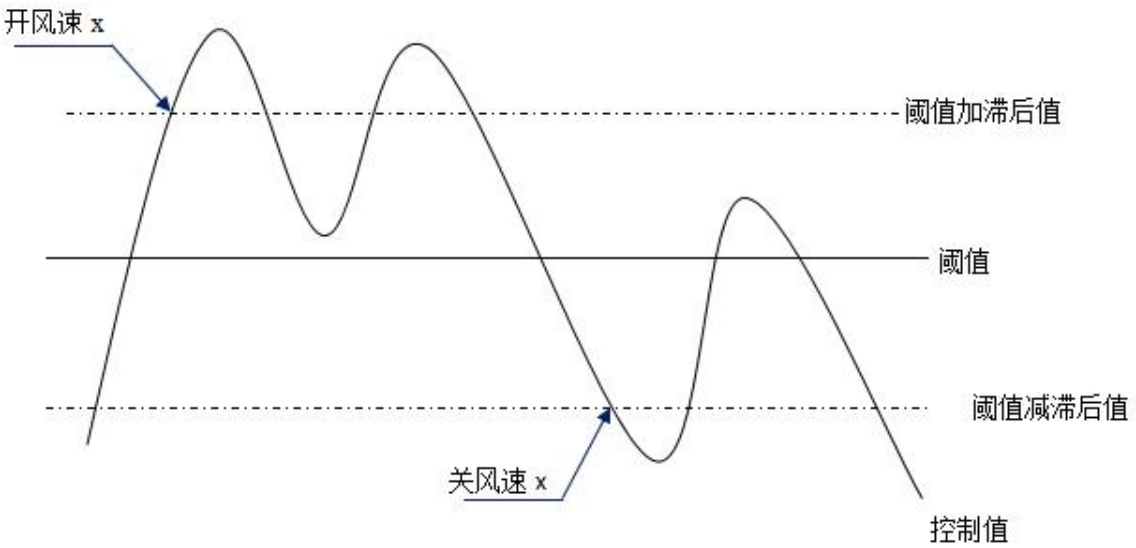
k

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**

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

k **0..65535**

k

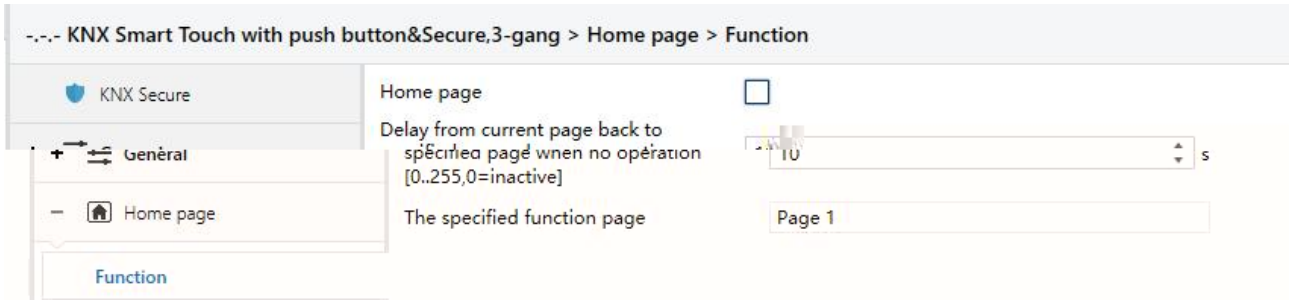
k

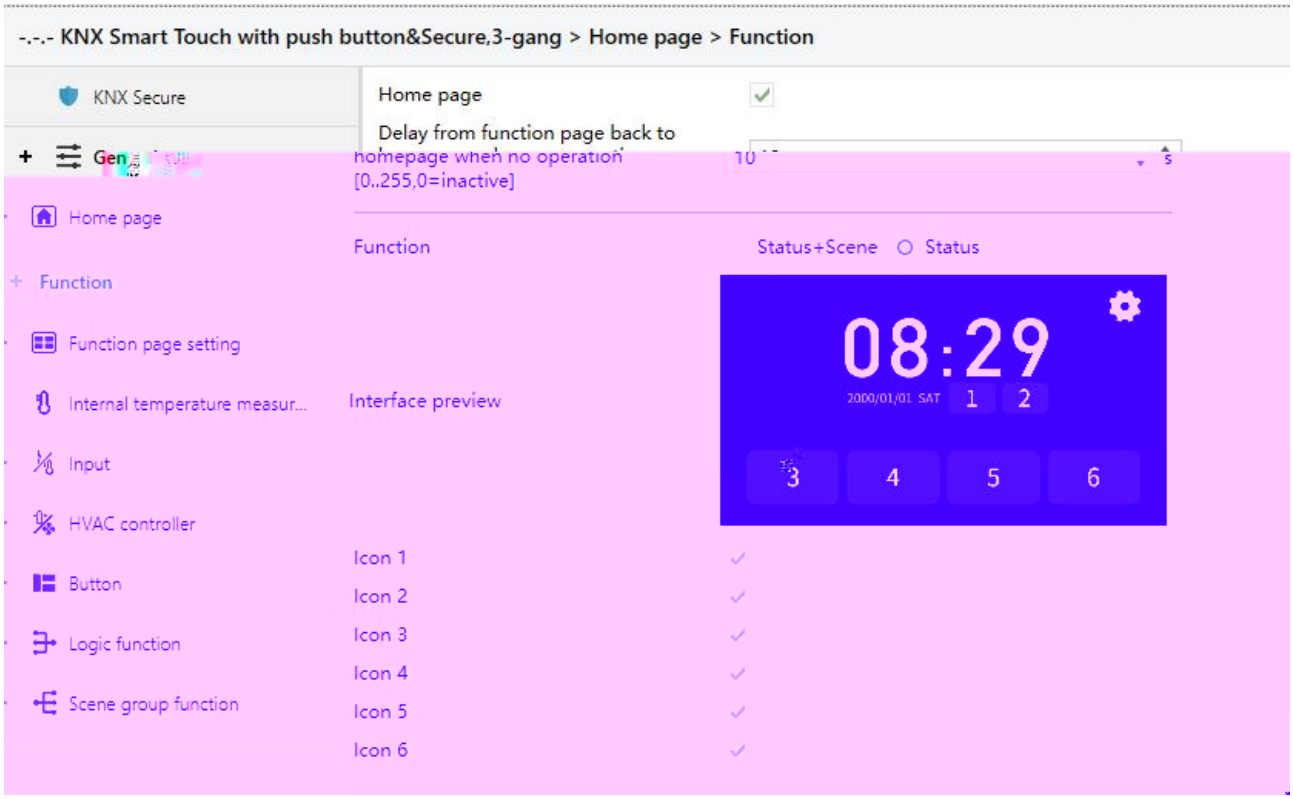
0 k

k

5.6. “Home page”

5.6.1. “Function”





5.6.1 “Function”

“Home page”

! !

k

“Delay from function page back to homepage when no operation [0..255,0=inactive]s”

k 0 k **0..255**

k

"The specified function page"

0 k 1.

k

"Function"

k k

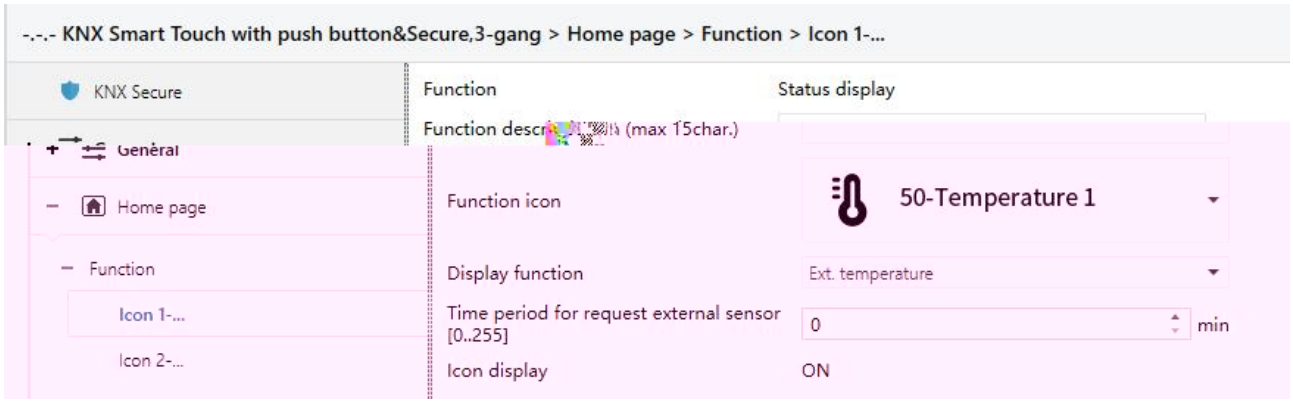
Status+Scene 4

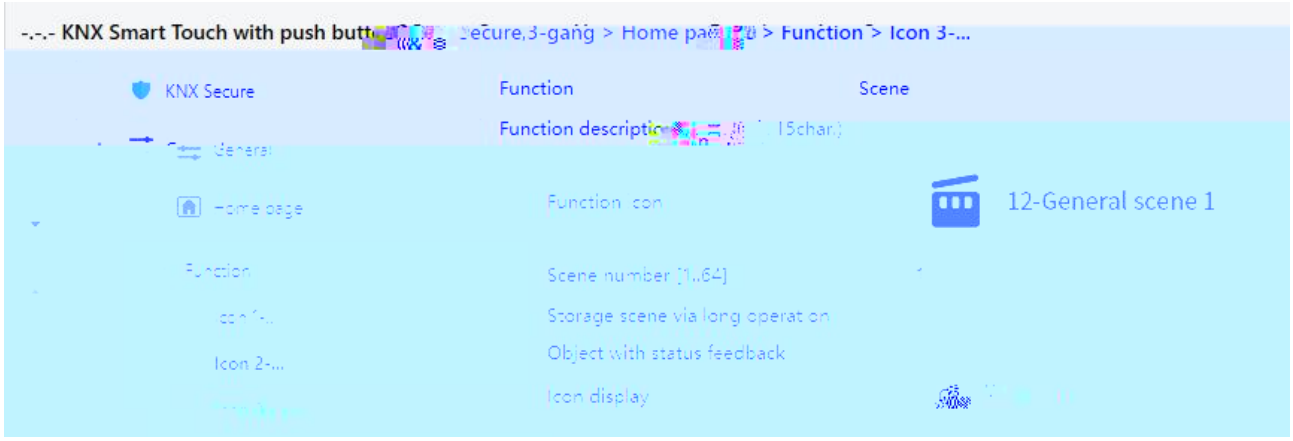
Status 6

"Icon x"(x=1~6)

k

5.6.2. “Icon x”(x=1~6)





5.6.2 “Icon x”

“Function”

k 1~6

“Status+Scene”

Icon 1~2 Icon 3~4 k

“Status”

Icon 1~6 k

“Function description (max 15char.)”

k 15 5 k

"Function icon"

k

01-General light

02-Ceiling light

...

80-Floor light

k

k

"Scene number [1..64]"

k **1..64**

"Storage scene via long operation"

k

1 k

"Object with status feedback"

k

"Icon display"

k k

OFF

ON

k

"Display function"

k k 1~6

"Status+Scene"

Int. temperature

Int. humidity

Ext. temperature

Ext. humidity

"Status"

Int. temperature	**Ext. humidity**	**VOC**	**Brightness**
Int. humidity	**PM2.5**	**CO2**	**Wind speed**
Ext. temperature	**PM10**	**AQI**	**Rain**

"Object datatype of display PM2.5/PM10/VOC"

PM2.5/PM10/VOC k PM2.5/PM10/VOC k

Value in ug/m3(DPT_7.001)

Float value in ug/m3(DPT_9.030)

"Object datatype of display CO2"

CO2 k CO2 k

Value in ppm(DPT_7.001)

Float value in ppm(DPT_9.008)

"Object datatype of display brightness"

Brightness k k

Brightness in lux(DPT_7.013)

Float value in lux(DPT_9.004)

"Object datatype of display wind speed"

Wind speed k k

Value in m/s(DPT_9.005)

Float value in km/h(DPT_9.028)

"Status text for rain (1-ON)"

"Status text for no rain (0-OFF)"

Rain k k

" " "Time period for request external sensor [0..255]min"

k

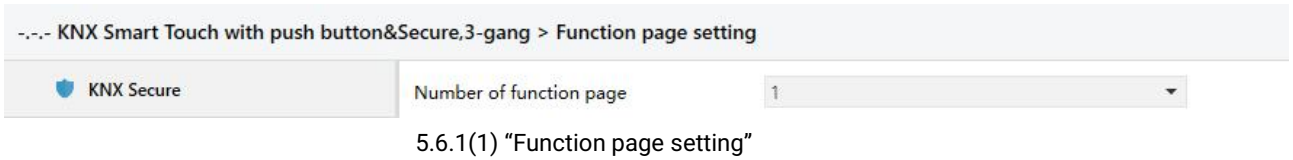
0 k **0..255**

"Icon display"

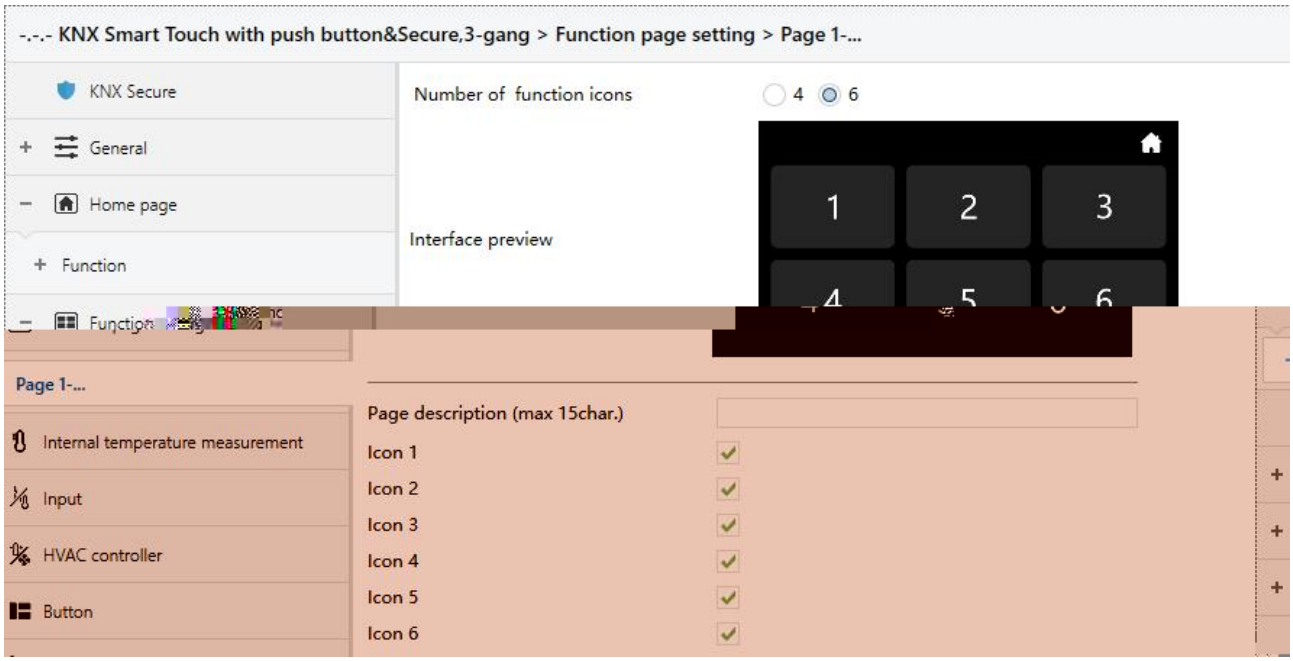
k **ON**

5.7. “Function page setting”

5.7.1. “Page x”(x=1~6)



5.6.1(1) “Function page setting”



5.7.1(2) “Page x”

“Number of function page”

6 k

“Number of function icons”

6 k

k

4

6

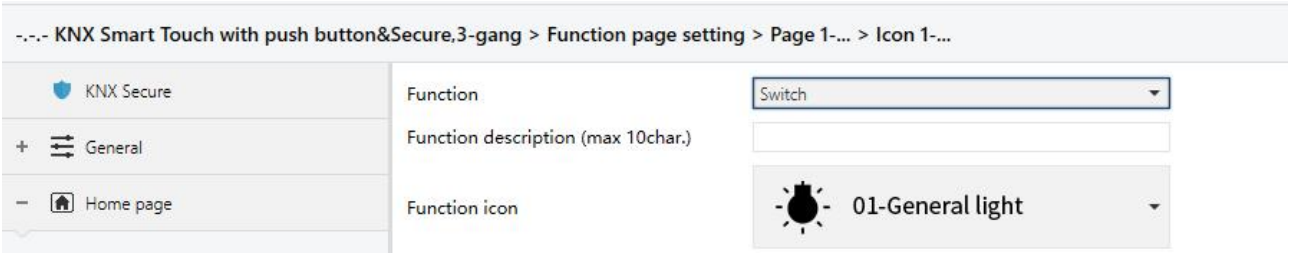
"Page description (max 15char.)"

15 5 k

"Icon 1"(x=1~6)

k

5.7.2. "Icon x"(x=1~6)



5.7.1 "Icon x"

"Function"

k

Switch

Press/Release switch

Relative dimming

Brightness dimming

RGB dimming

RGBW dimming

RGBCW dimming

Colour temperature dimming

Curtain step/move

Roller blind step/move

Curtain position

Roller blind position

Venetian blind position and slat

Value sender

Scene

Status display

Air conditioner

Room temperature unit

Ventilation system

Audio control

"Function description (max 10char.)"

10 5 k

"Function icon"

k

01-General light

02-Ceiling light

...

80-Floor light

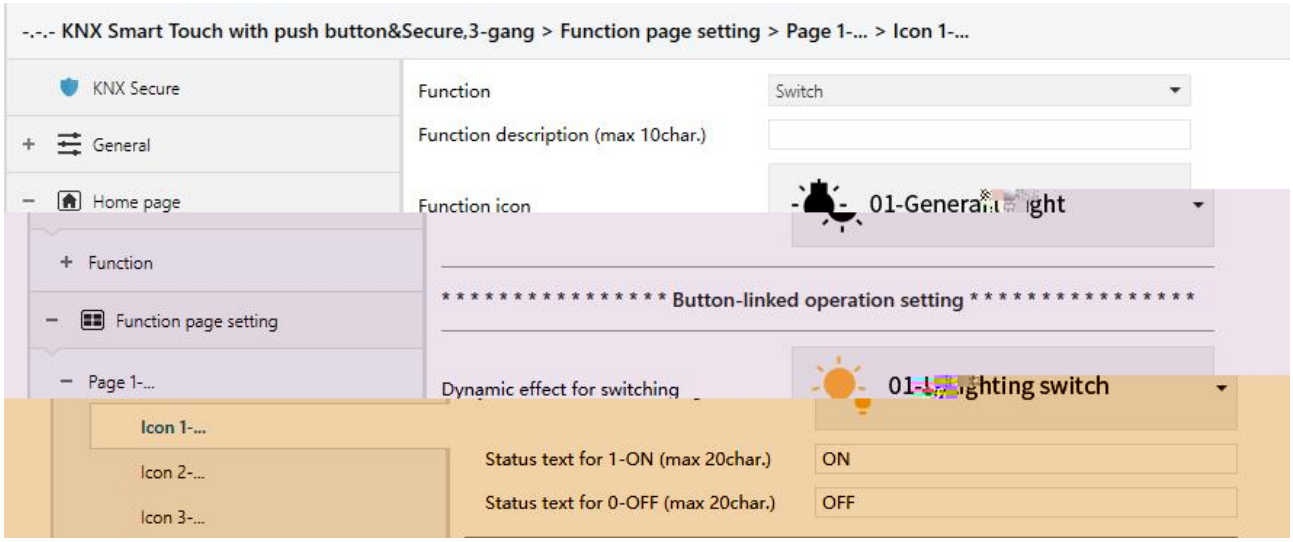
k

k

5.7.2.1.

! ! ! ! ! k

1.



5.7.2.1 (1)

k

k

Button-linked operation setting

“Customized linking to touch” k

/ k

“Dynamic effect when button-linked operation for switching”

k

Disable

01-Lighting switch

02-Lighting dim

...

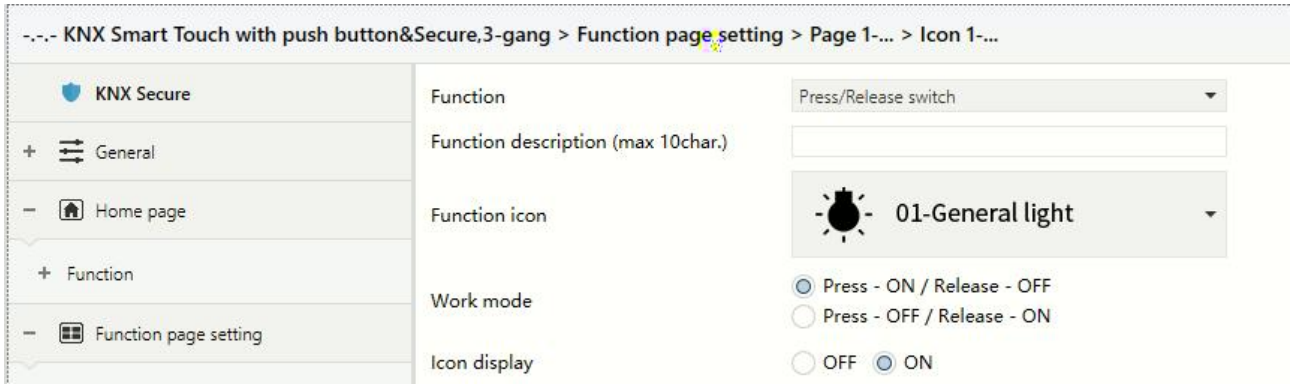
16-Romantic

k

- **“Status text for 1-ON (max 20char.)”**
- **“Status text for 0-OFF (max 20char.)”**

k k

2. /



5.7.2.1 (2) /

“Work mode”

k

Press - ON / Release - OFF

Press - OFF / Release - ON

“Icon display”

k

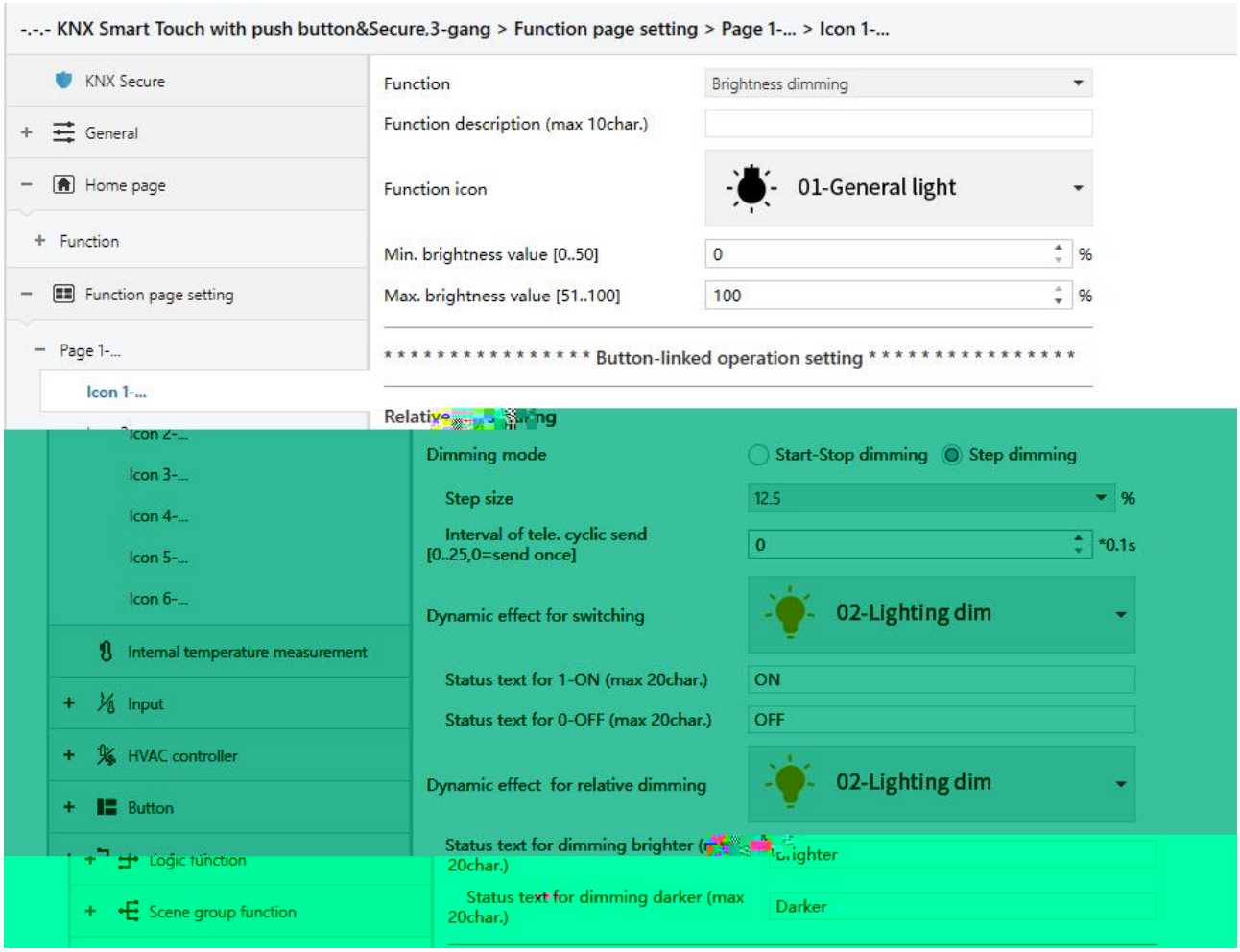
OFF

ON

k

3. /

-.-.- KNX Smart Touch with push button&Secure,3-gang > Function page setting > Page 1-... > Icon 1-...
KNX Secure



5.7.2.1 (3)

“Brightness dimming”

“Min. brightness value [0..50]%”

“Brightness dimming”	k	k	**0..50**

“Max. brightness value [51..100]%”

“Brightness dimming”	k	k	**51..100**

“Brightness dimming” **“Customized linking to touch”**

“Relative dimming” k

Relative setting

Brightness Dimming **4bit** k

"Dimming mode"

k

Start-Stop dimming

Step dimming

Start-stop dimming

k k

Steps dimming k

" Step size"

"Step dimming" k k

100%

50%

...

1.56%

" Interval of tele. cyclic send [0..25,0=send once]*0.1s"

"Step dimming" k k **0..25 0=**

/ / **k**

/ / **k**

"Dynamic effect when button-linked operation for relative dimming"

k

Disable

01-Lighting switch

02-Lighting dim

...

16-Romantic

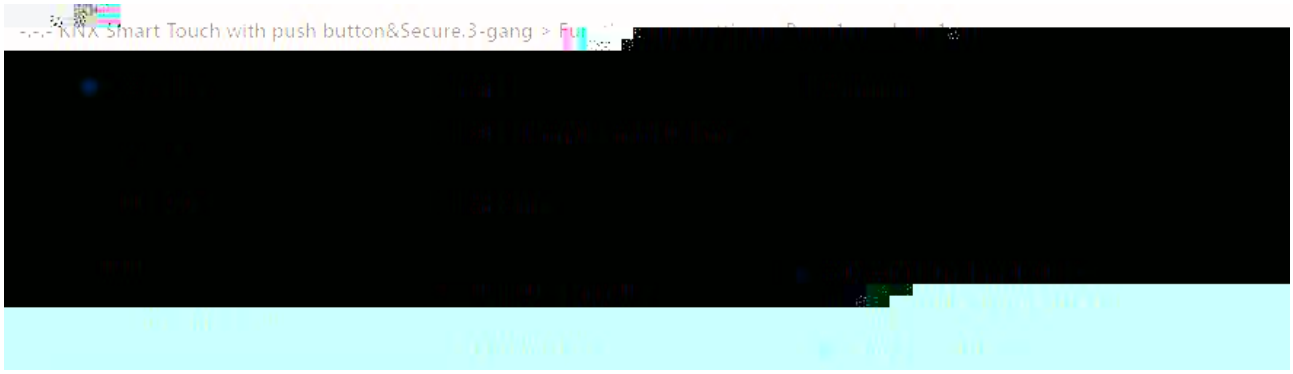
k

- **“Status text for dimming brighter (max 20char.)”**
- **“Status text for dimming darker (max 20char.)”**

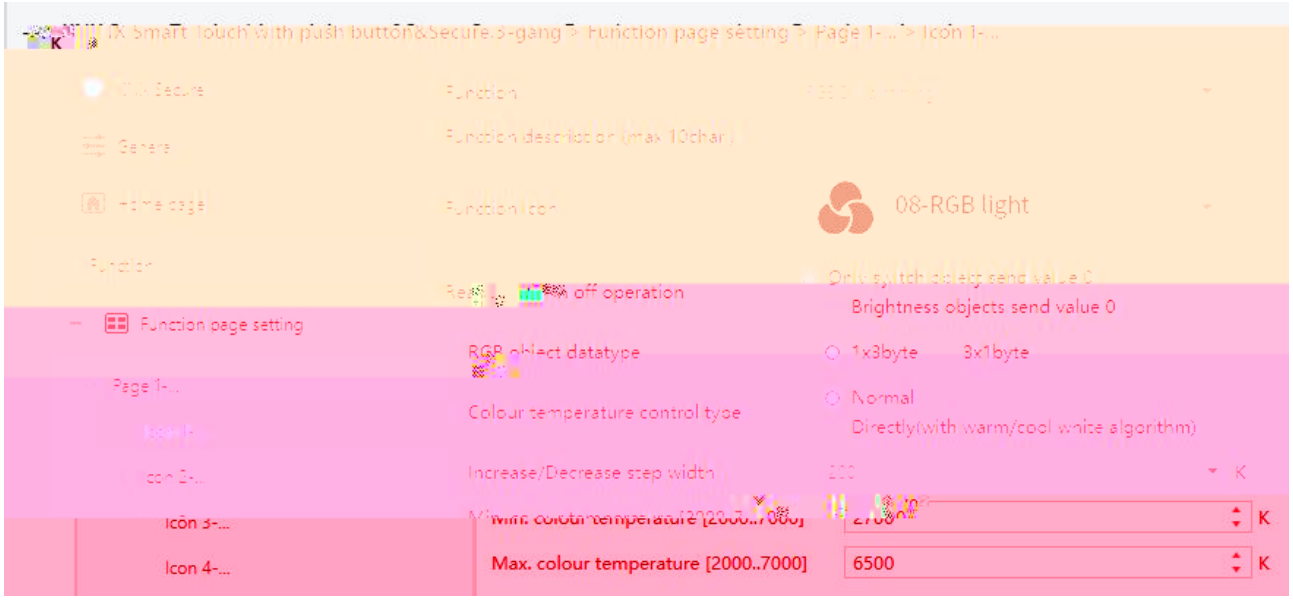
k k

4. RGB / RGBW / RGBCW /

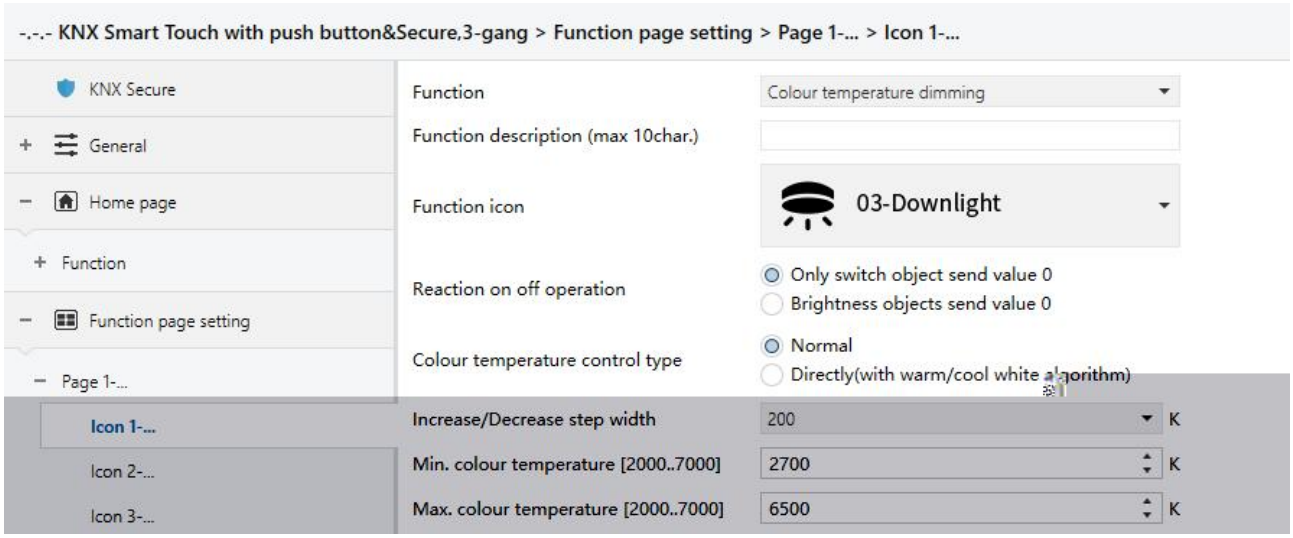
RGB

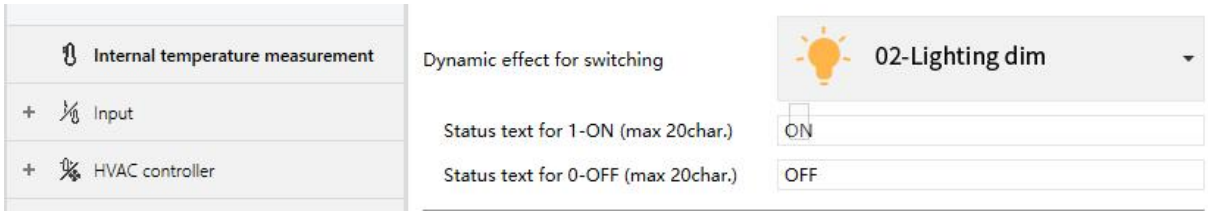


RGBW



RGBCW





RGB / RGBW / RGBCW /

5.7.2.1 (4)

"Reaction on "off "operation"

0 0 k

Only switch object send value 0

Brightness objects send value 0

"Object datatype"/"RGB object datatype "

"RGB dimming" "RGBW dimming" "RGBCW dimming" k RGB

RGBW k

RGB

1x3byte 3byte RGB

3x1byte 1byte RGB

RGBW

1x6byte	**6byte**	**RGBW**
4x1byte	**1byte**	**RGBW**

“RGBCW dimming” “Colour temperature dimming”

500

1000

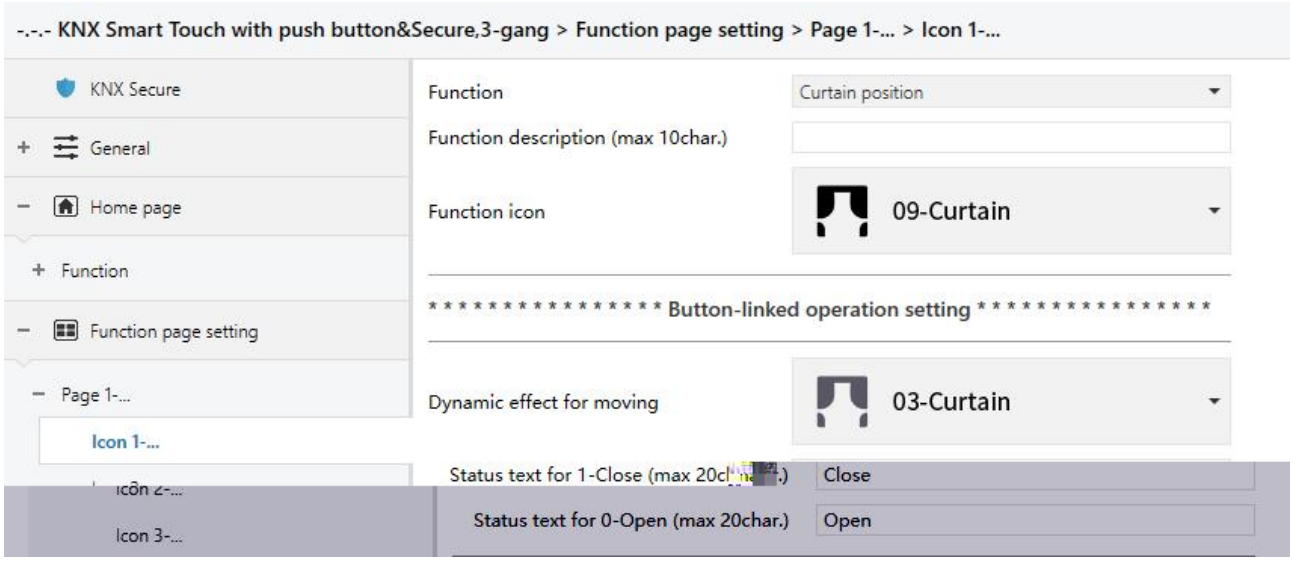
"Min. colour temperature [2000..7000]K"

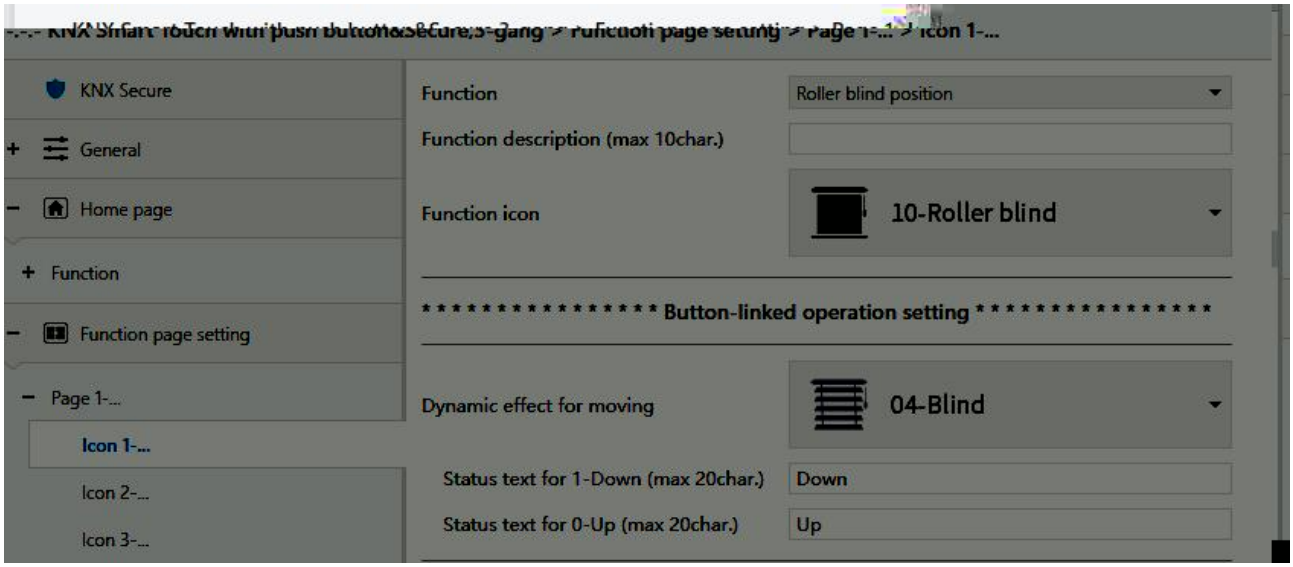
“Max. colour temperature [2000..7000]K”

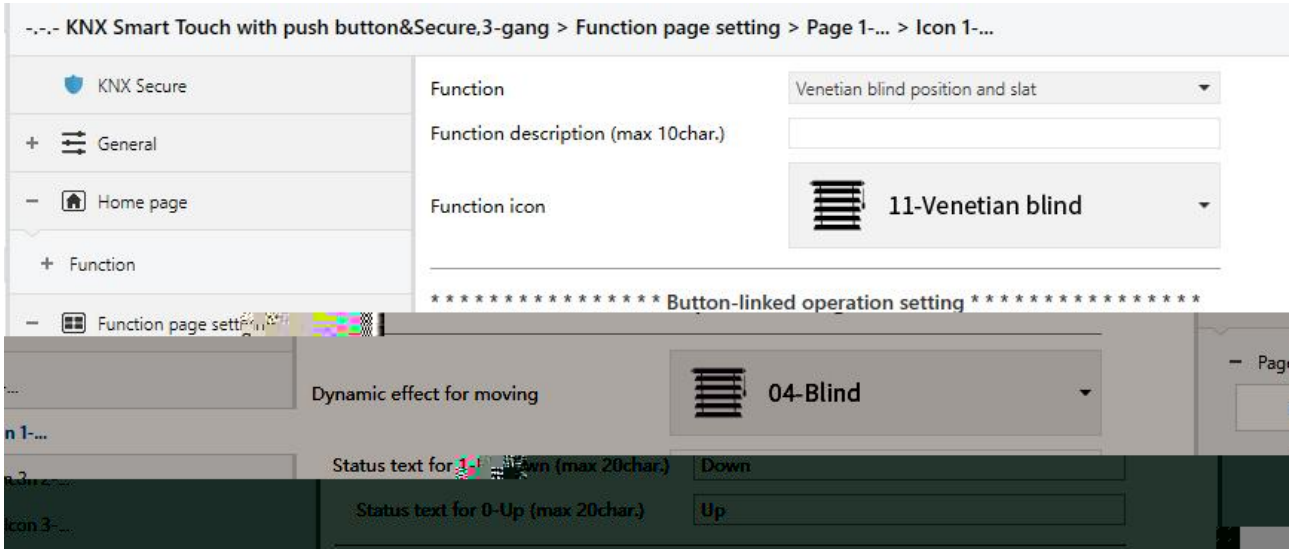
k **2000..7000**

RGB / RGBW / RGBCW / /

k


-.-.- KNX Smart Touch with push button&Secure,3-gang > Function page setting > Page 1-... > Icon 1-...
KNX Secure
General
Home page
Function
Function page setting
Page 1-...
Icon 1-...
Icon 3-...
Function
Curtain position
Function description (max 10char.)
Function icon
09-Curtain
* * * * * * * * * * * * * * * * * Button-linked operation setting * * * * * * * * * * * * * * * * *
Dynamic effect for moving
03-Curtain
Status text for 1-Close (max 20char.)
Close
Status text for 0-Open (max 20char.)
Open


KNX Secure
General
Home page
Function
Function page setting
Page 1-...
Icon 1-...
Icon 2-...
Icon 3-...
Function
Roller blind position
Function description (max 10char.)
Function icon
10-Roller blind
* * * * * * * * * * * * * * * * * Button-linked operation setting * * * * * * * * * * * * * * * * *
Dynamic effect for moving
04-Blind
Status text for 1-Down (max 20char.)
Down
Status text for 0-Up (max 20char.)
Up



!

5.7.2.1 (5)

"Icon display"

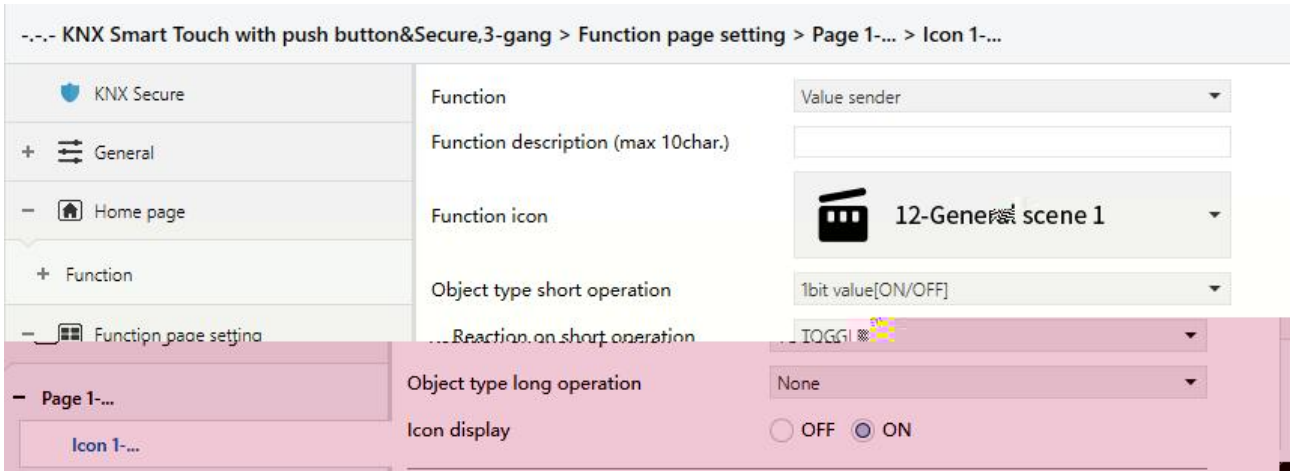
- **“Status text for 1-Close (max 20char.)”**
- **“Status text for 0-Open (max 20char.)”**

k / k

- **“Status text for 1-Down (max 20char.)”**
- **“Status text for 0-Up (max 20char.)”**

k / k

6.



5.7.2.1 (6)

"Object type short operation"

"Object type long operation"

/ k

None

1bit value[ON/OFF]

2bit/4bit value

1byte value[0..255]

2byte value[0..65535]

2byte float value

4byte value[0..4294967295]

4byte float value

"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"

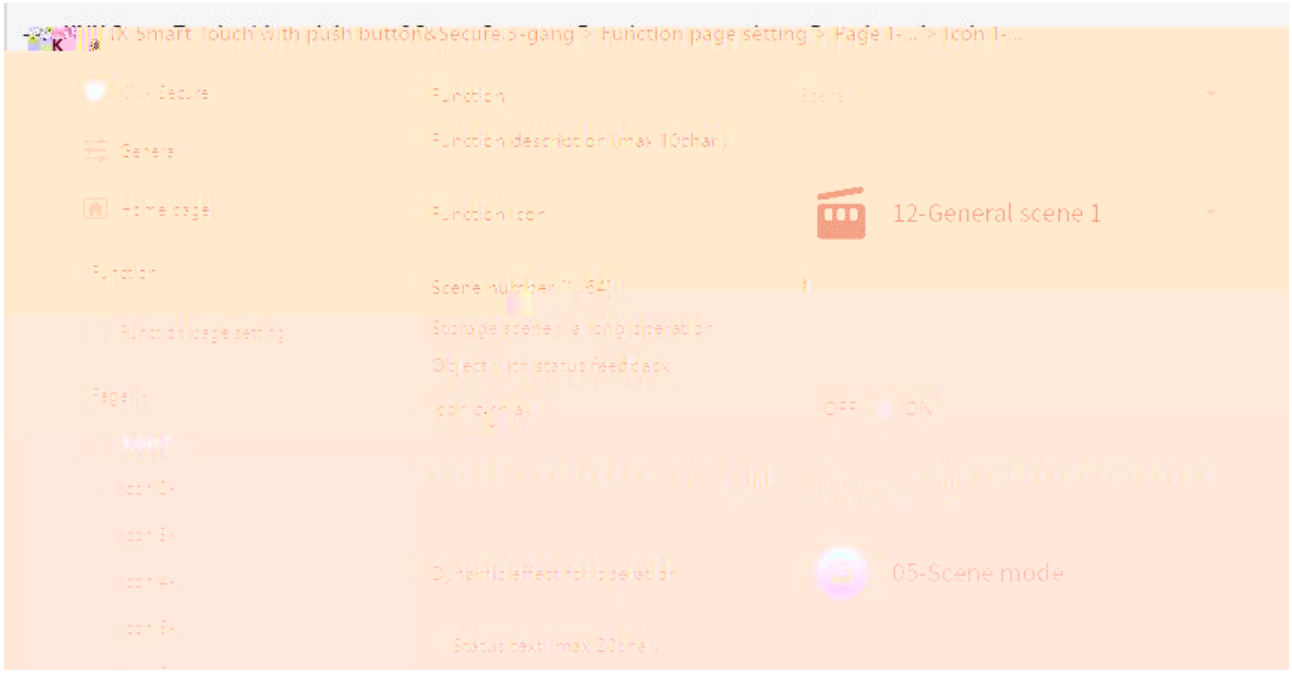
k

OFF

ON

k

7.



5.7.2.1 (7)

"Scene number [1..64]"

k **1..64**

"Storage scene via long operation"

k

1 k

"Object with status feedback"

k

"Icon display"

k k

OFF

ON

k

"Dynamic effect when button-linked operation"

k

Disable

01-Lighting switch

02-Lighting dim

...

16-Romantic

k

"Status text (max 20char.)"

k k

k k

8.

5.7.2.1(8)

"Display function"

k

Int. temperature value (DPT 9.001)

Int. humidity value (DPT 9.007)

Ext. temperature value (DPT 9.001)

Ext. humidity value (DPT 9.007)

1bit value (DPT 1.001)

1byte percent value (DPT 5.001)

1byte unsigned value (DPT 5.010)

2byte unsigned value (DPT 7.001)

2byte lux value (DPT 9.004)

2byte float value (DPT 9.x)

- **"Status text for 1-ON"**
- **"Status text for 0-OFF"**

1bit k k

“Text for unit”

1byte unsigned value 2byte k k

“Time period for request external value [0...255]min”

k k

0..255

k

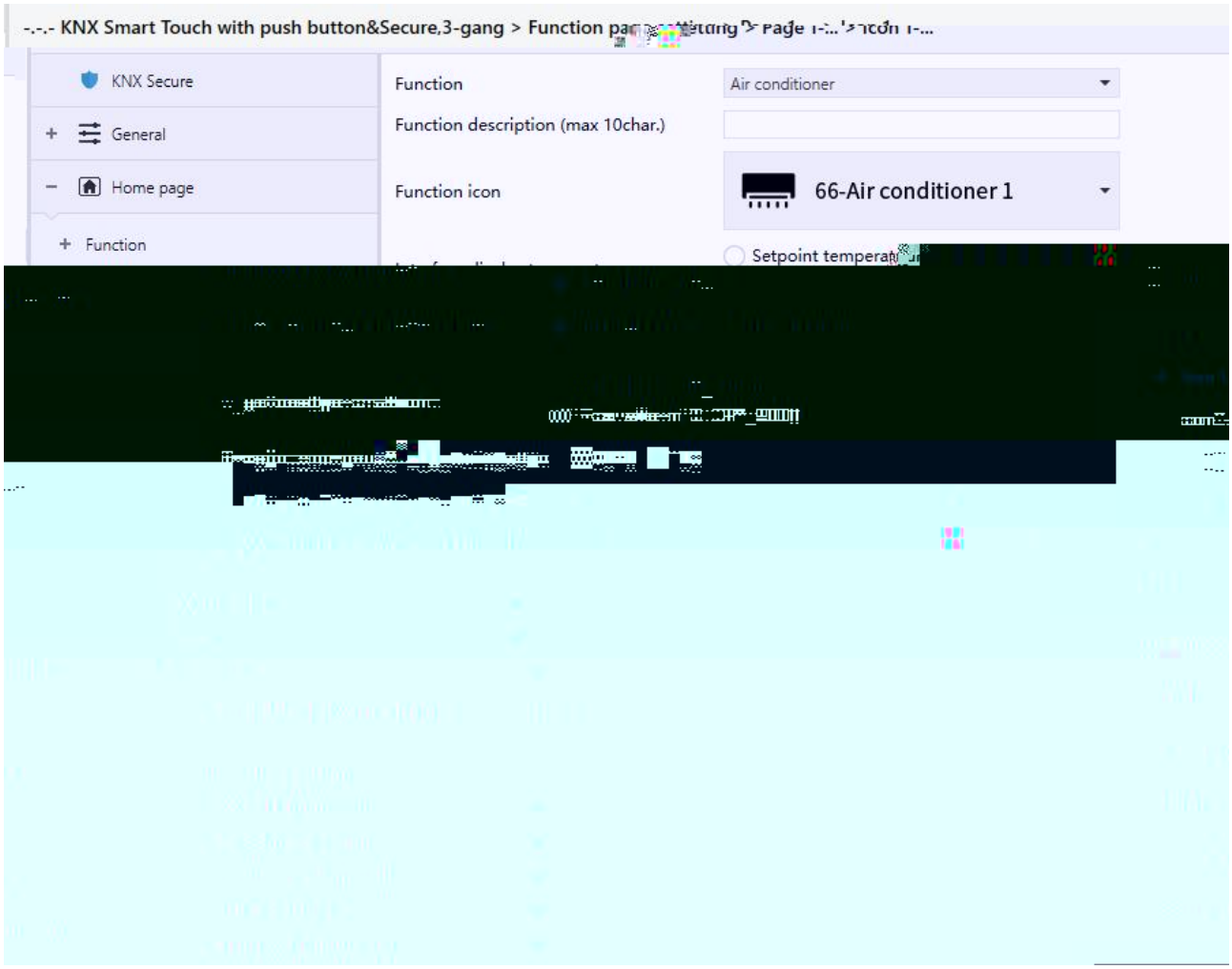
“Icon display”

1bit k k

OFF

ON

5.7.2.2.



5.7.2.2(1)

"Interface display temperature"

k

Setpoint temperature

Actual temperature

k

"Room temperature reference from"

k

Internal sensor

External sensor

"Time period for request room temperature sensor [0...255]min"

"External sensor" k k

0..255

k

"Object datatype of setpoint"

k

Value in °C (DPT_5.010)

Float value in °C (DPT_9.001) **KNX**

"Setpoint temperature adjustment step"

k

0.5K

1K

"Value in °C (DPT_5.010)" **1K**

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

k

k

16°C

17°C

...

32°C

"Vanes swing"

k

"Timer"

k

k

"Scene"

k ! ! !

k

“Send delay between telegrams”

k k

Disable

100ms

300ms

500ms

Protection setting

"ON/OFF protection"

“Setpoint protection”

“Mode protection”

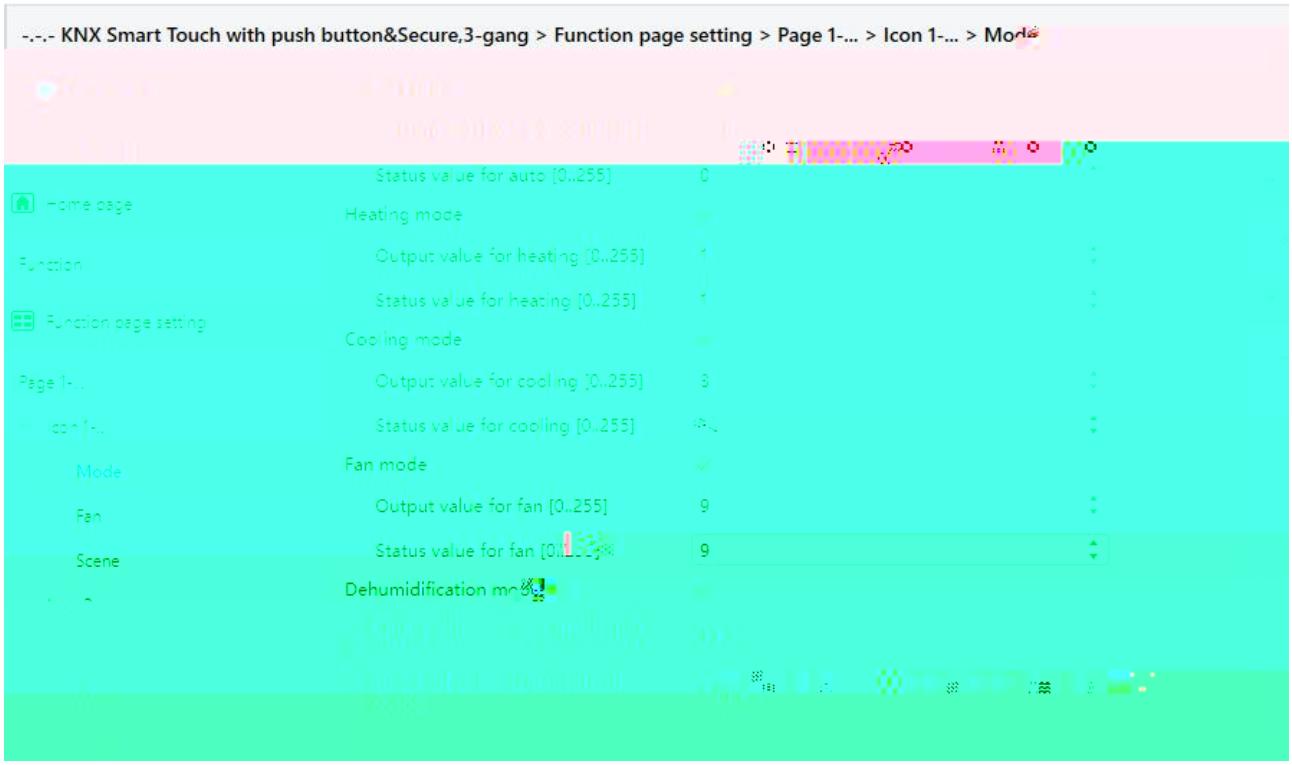
“Fan protection”

“Vanes swing protection”

k ! !

! k

k



5.7.2.2(2) -

“Auto/Heating/Cooling/Fan/Dehumidification mode”

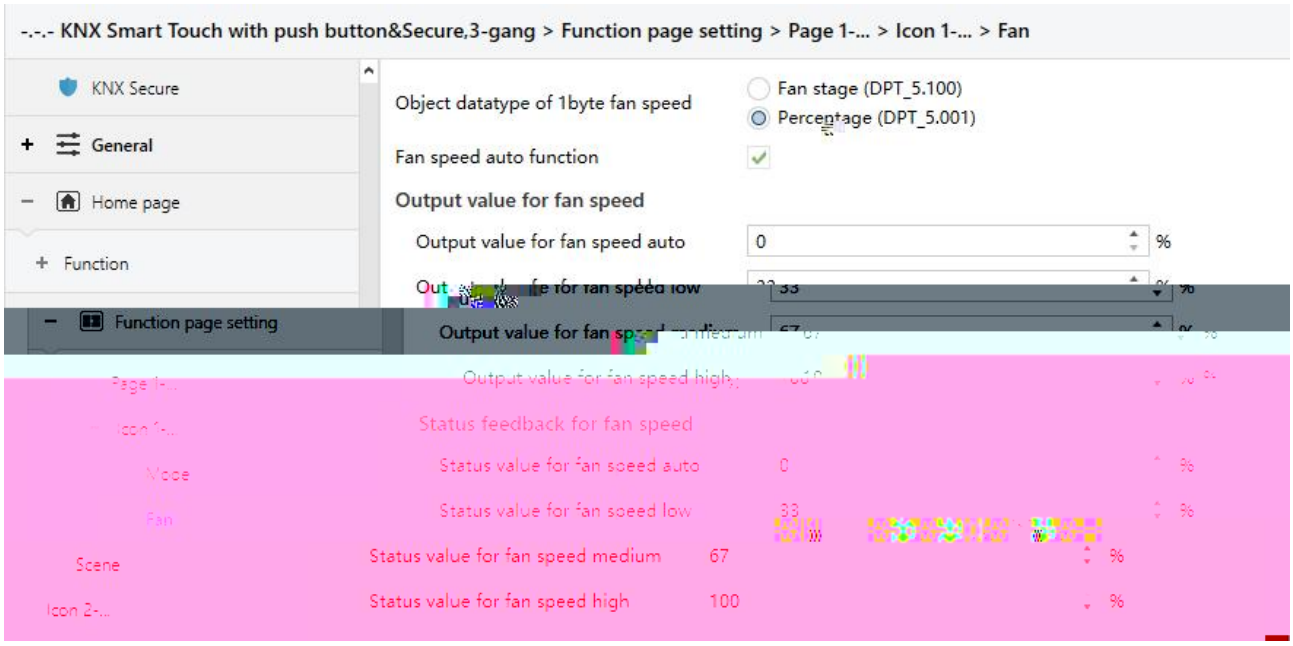
k

“Output value for auto/heating/cooling/fan/dehumidification [0..255]”

k **0..255**

“Status value for auto/heating/cooling/fan/dehumidification [0..255]”

k **0..255**



5.7.2.2(3) -

"Object datatype of 1byte fan speed"

1byte k

Fan stage (DPT 5.100)

Percentage (DPT 5.001)

"Fan speed auto function"

k

Output value for fan speed

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

! ! ! 4 k

0..255/0..100

Status feedback for fan speed

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

! ! ! 4 k

k **0..255/0..100**

5.7.2.2(4) -

"x->Assign scene NO.[1..64,0=inactive]"(x=1~5)

k 5 k **0..64 0=**

" "ON/OFF"

Unchange

OFF

ON

OFF k

" "Temperature"

Unchange

16°C

17°C

..

32°C

“Mode”

Unchange

Auto

Heating

Cooling

Fan

Dehumidification

“Fan”

Unchange

Auto

Low

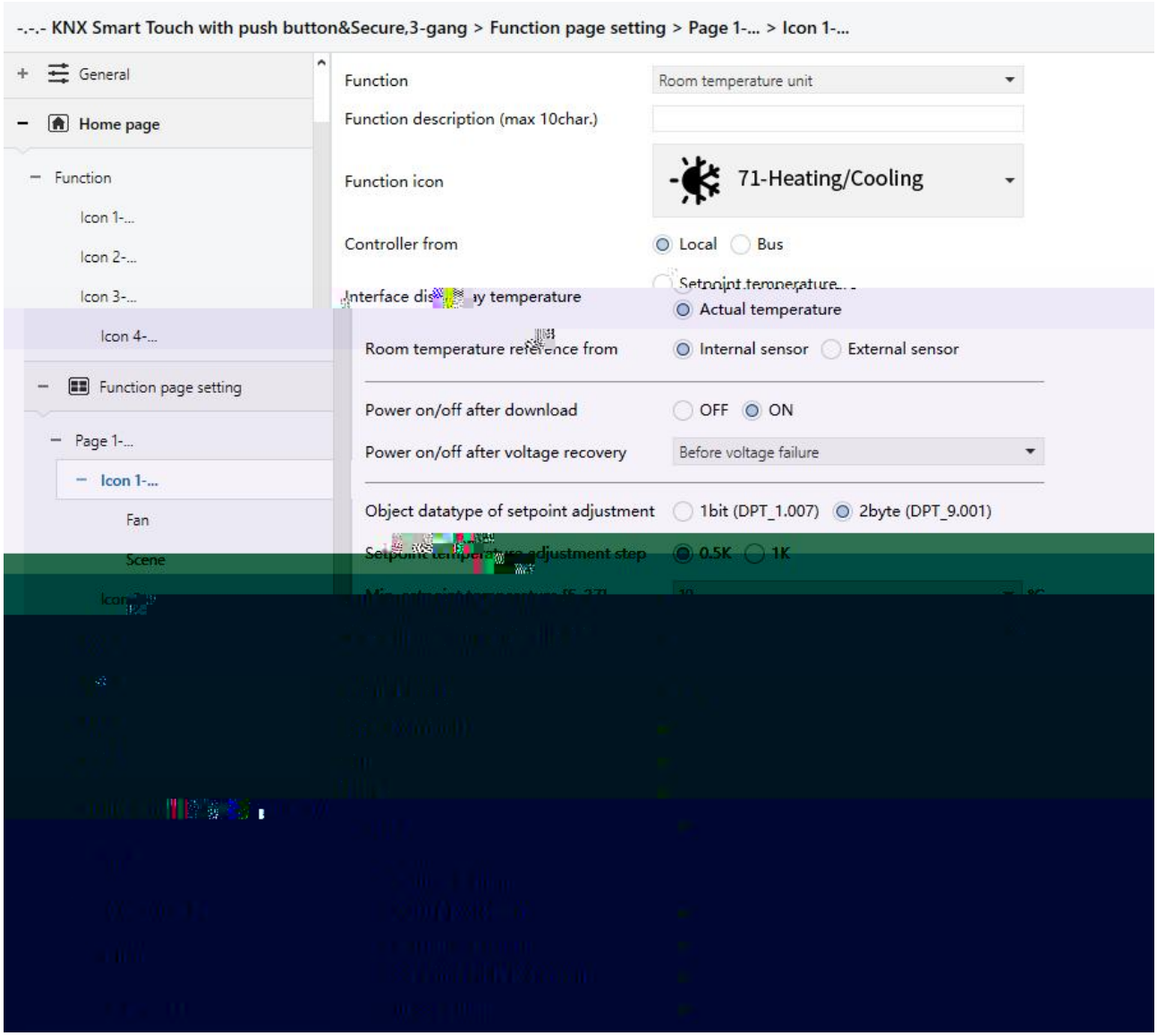
Medium

High

! ! k

k k

5.7.2.3.


-.-.- KNX Smart Touch with push button&Secure,3-gang > Function page setting > Page 1-... > Icon 1-...
General
Home page
Function
Icon 1-...
Icon 2-...
Icon 3-...
Icon 4-...
Function page setting
Page 1-...
Icon 1-...
Fan
Scene
Function
Room temperature unit
Function description (max 10char.)
Function icon
71-Heating/Cooling
Controller from
Local
Bus
Actual temperature
Room temperature reference from
Internal sensor
External sensor
Power on/off after download
OFF
ON
Power on/off after voltage recovery
Before voltage failure
Object datatype of setpoint adjustment
1bit (DPT_1.007)
2byte (DPT_9.001)
0.5K
1K

5.7.2.3(1)

٢٥

GVS K

OF

ON

Power off/on after

OF

On

Off

Befo

"Control mode"

RTC k

Heating

Cooling

Heating and Cooling

"Operation mode"

k ! ! 4 k

"Fan "

k

"Timer"

k

k

"Scene"

k ! /

k

Protection setting

"ON/OFF protection"

"Setpoint protection"

"Control mode protection"

"Operation mode protection"

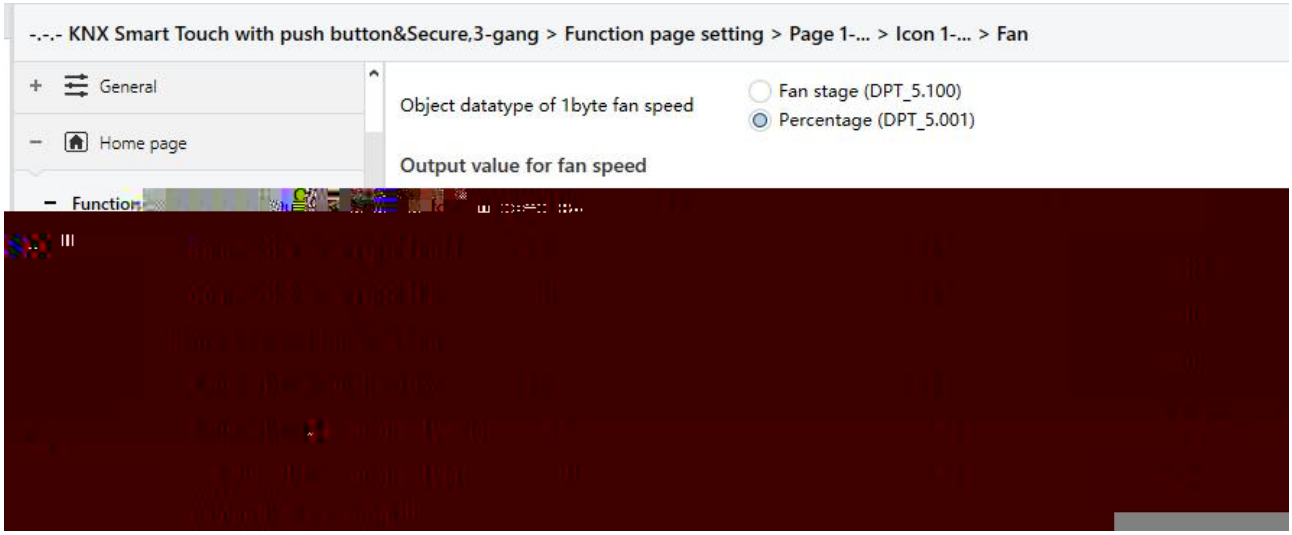
"Fan protection"

k

! ! ! k Heating and

Cooling k

k



5.7.2.3(2) -

"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"

! ! 3 k

0..255/0..100

Status feedback for fan speed

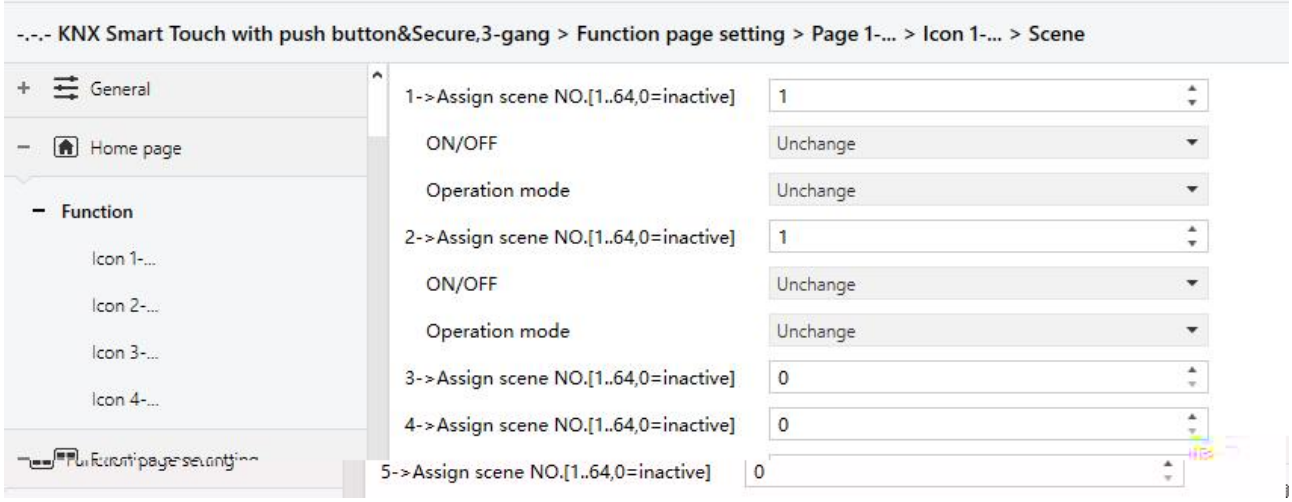
" " "Status value for fan speed low/medium/high"

! ! 3 k

k **0..255/0..100**

"Automatic operation function"

k



5.7.2.3(3) -

"x->Assign scene NO.[1..64,0=inactive]"(x=1~5)

k 5 k **0..64 0=**

" " "ON/OFF"

Unchange

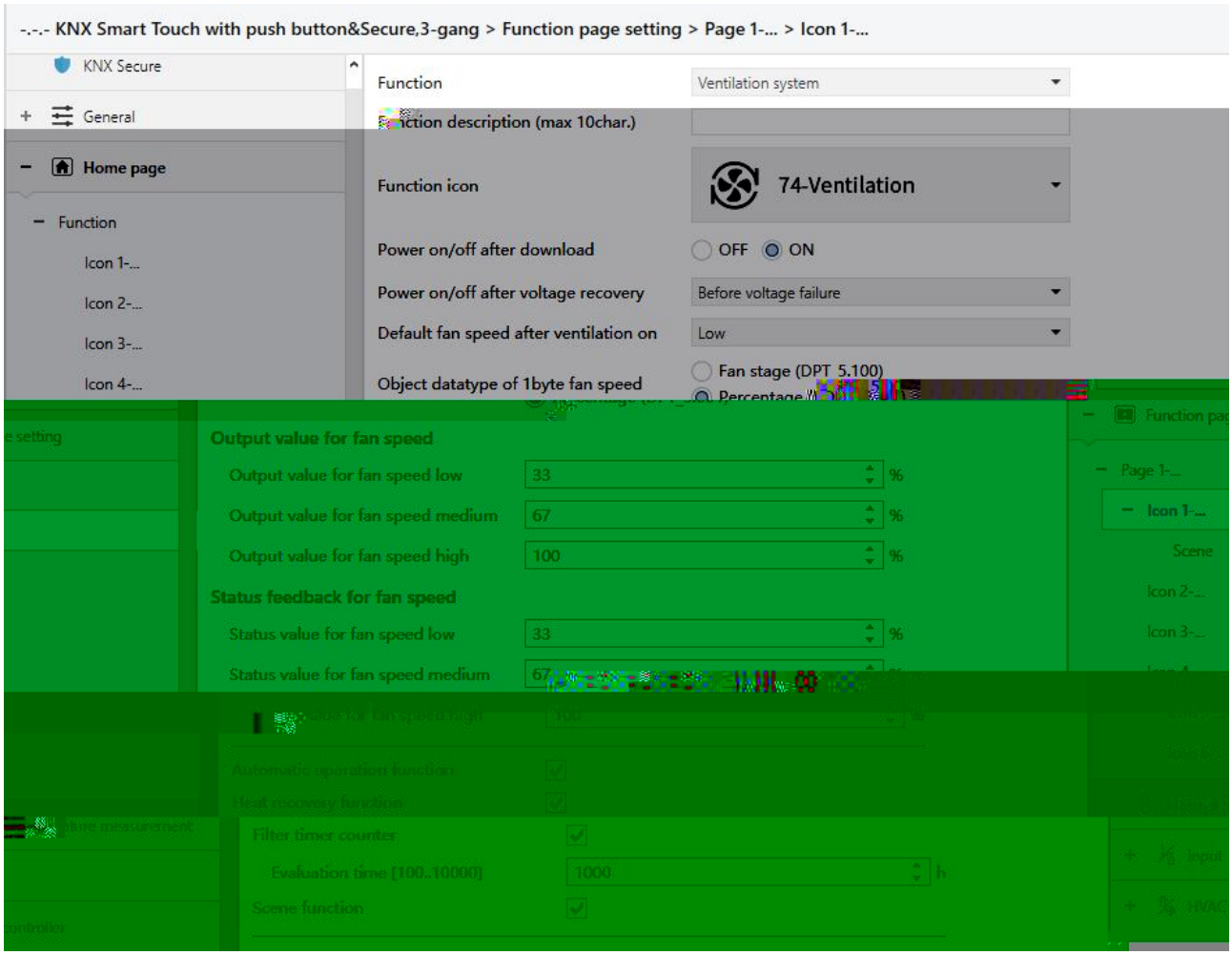
OFF

ON

" " "Temperature"

□

5.7.2.4.



5.7.2.4

"Power on/off after download "

k

OFF

ON

"Power on/off after voltage recovery"

k

OFF

ON

Before voltage failure

On

Off !

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"

! ! 3 k

0..255/0..100

Status feedback for fan speed

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

! ! 3 k

k **0..255/0..100**

"Automatic operation function"

k

"Heat recovery function"

k

"Filter timer counter"

k

"Evaluation time [100..10000]h"

k **100..10000**

k

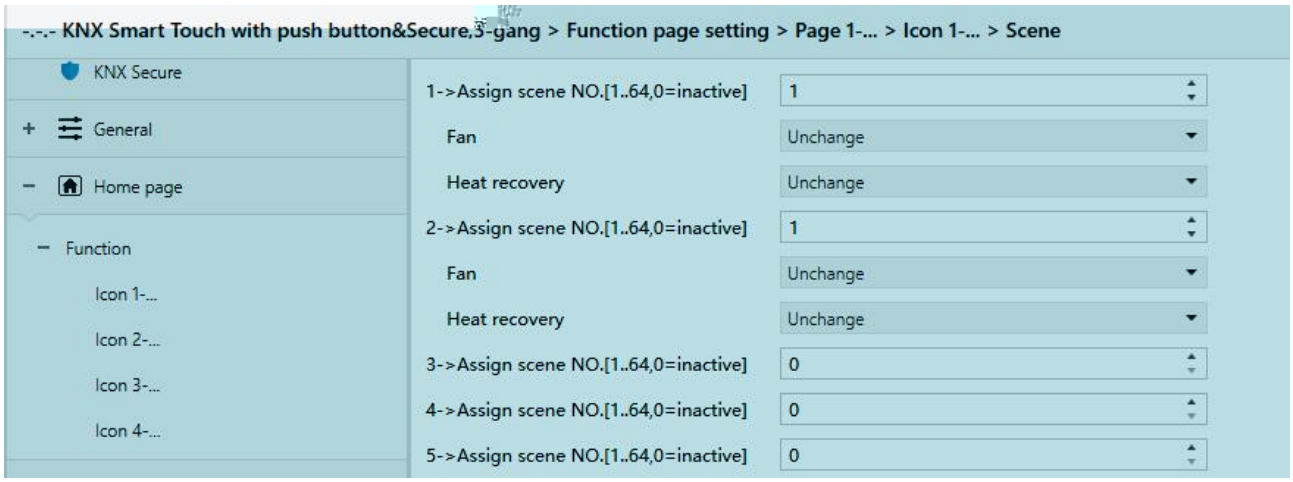
"Filter timer reset" k

"Filter timer counter"

"Filter timer counter change" k

"Scene function"

k ! k



5.7.2.4(2) -

"x->Assign scene NO.[1..64,0=inactive]"(x=1~5)

k 5 k **0..64 0=**

" " "Fan"

x

Unchange

OFF

Low

Medium

High

OFF k

" " "Heat recovery"

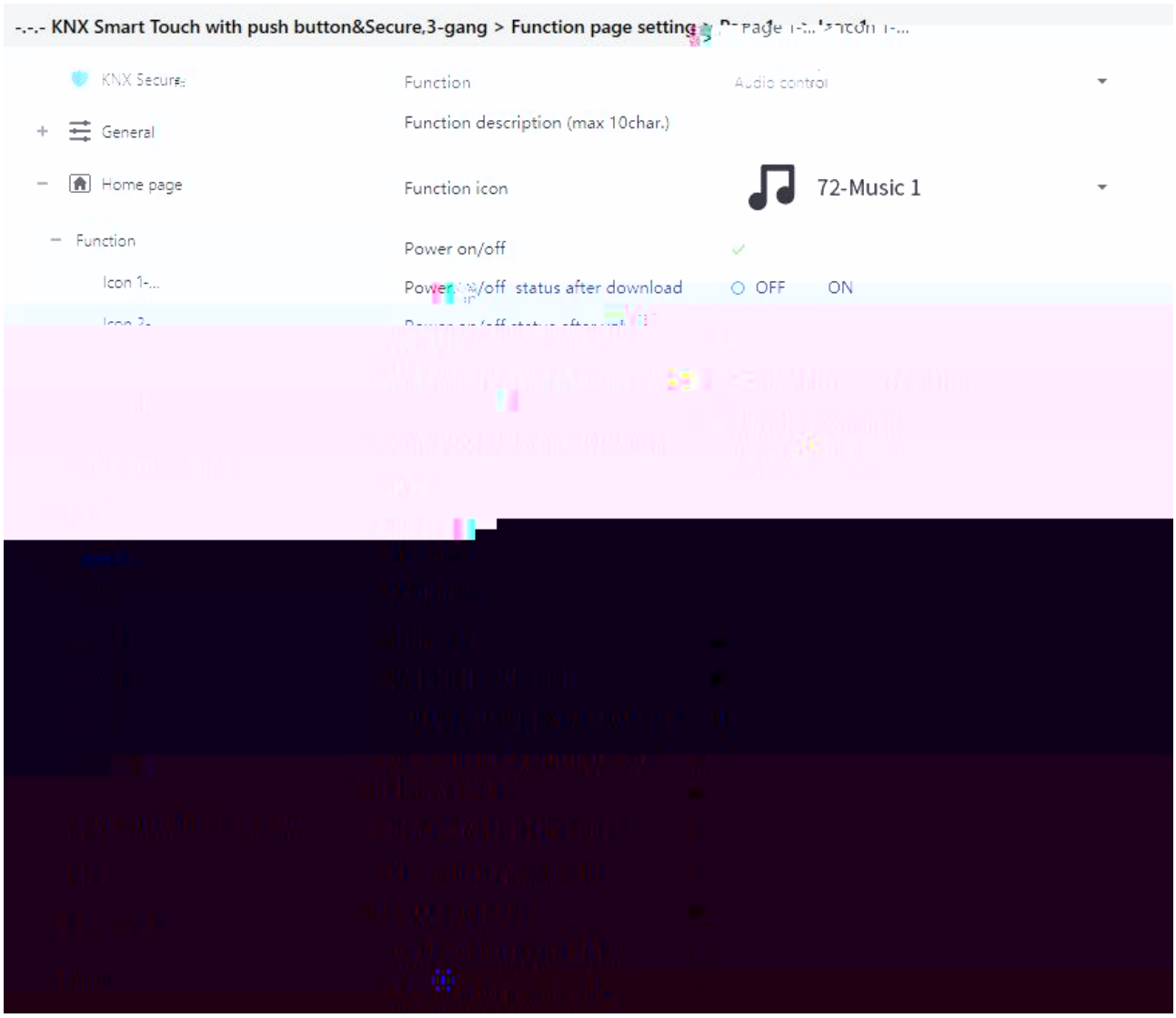
k x

Unchange

OFF

ON

5.7.2.5.



5.7.2.5

"Power on/off"

k

"Power on/off after download "

k

OFF

ON

"Power on/off after voltage recovery"

k

OFF

ON

Before voltage failure

On

Off

Before voltage failure k

"Number of object for play/pause control"

/ 1 2 k

One object

Two objects

"Control mode of volume adjustment"

k

1Bit (relative control)

1Byte (absolute control)

1bit 1byte 1byte k

" "Object datatype"

1byte k 1byte k

Percentage (DPT 5.001)

Percentage (DPT 5.004)

“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

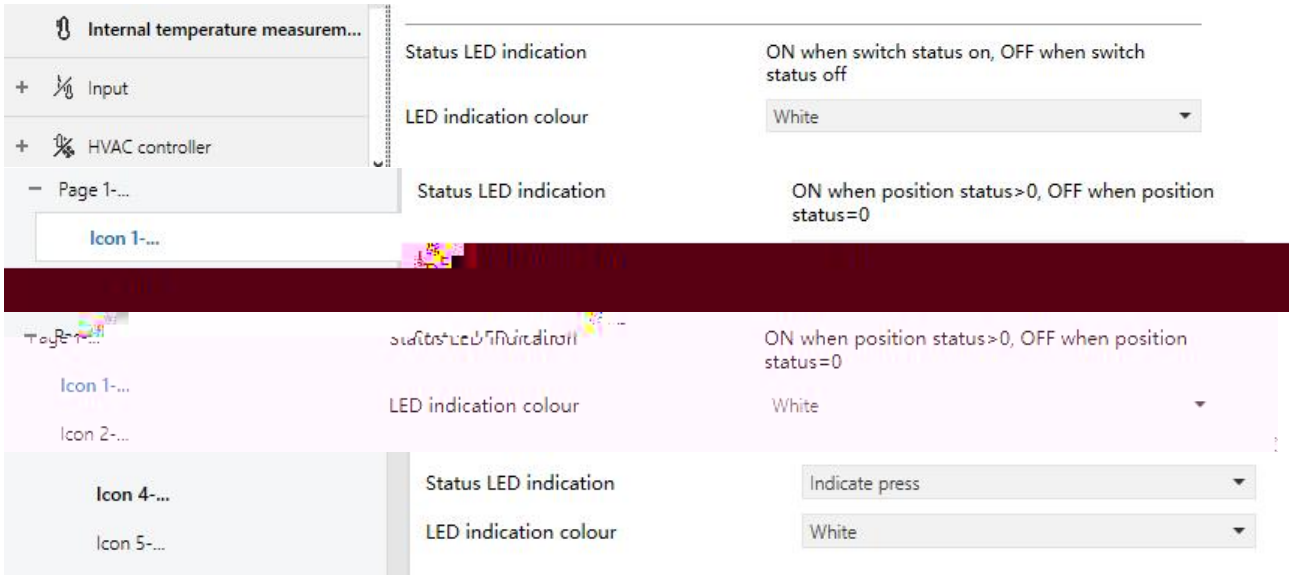
“Output value for play in random”

k **0..255**

“Status value for play in random”

k **0..255**

5.7.2.6.LED



5.7.2.6 LED

k k

"Status LED indication"

LED

Switch / Press/release switch / Relative dimming / Brightness dimming / RGB dimming / RGBW dimming / RGBCW dimming / Colour temperature dimming **ON when switch status on, OFF when switch status off**

Curtain position / Roller blind position / Venetian blind position and slat **ON when position status>0, OFF when position status=0**

Scene "Object with status feedback" **ON when position status>0, OFF when position status=0**

ON when switch status on, OFF when switch status off LED

LED

ON when position status>0, OFF when position status=0 >0

LED =0

ON when position status>0, OFF when position status=0

LED k

! ! ! ! !

! ! !

Curtain step move / Roller blind step move / Value sender / Scene “Object

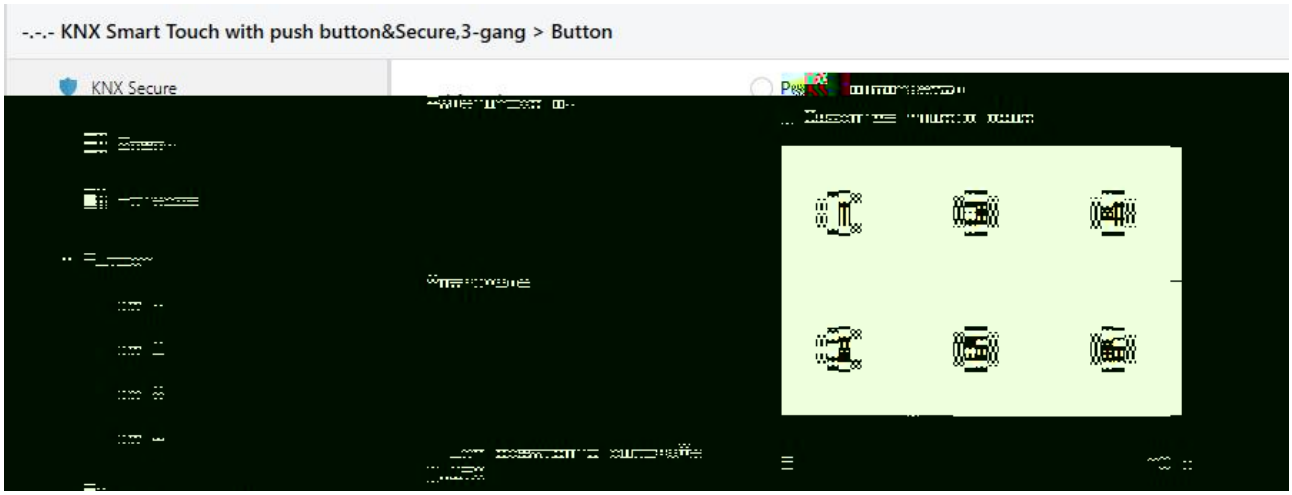
"LED indication colour"

"Customized colour"

k

Red	**Orange**	
Green	**Cyan blue**	
Blue	**Customized colour 1**	**1**
White	**Customized colour 2**	**2**
Yellow	**Customized colour 3**	**3**
Cyan	**Customized colour 4**	**4**
Magenta	**Customized colour 5**	**5**

5.8. “Button”



5.8 “Button”

“Panel function as”

k k

Push button sensor

Customized linking to touch

Push button sensor k !

1bit/1byte ! ! k

Customized linking to touch k

! ! ! 3 k

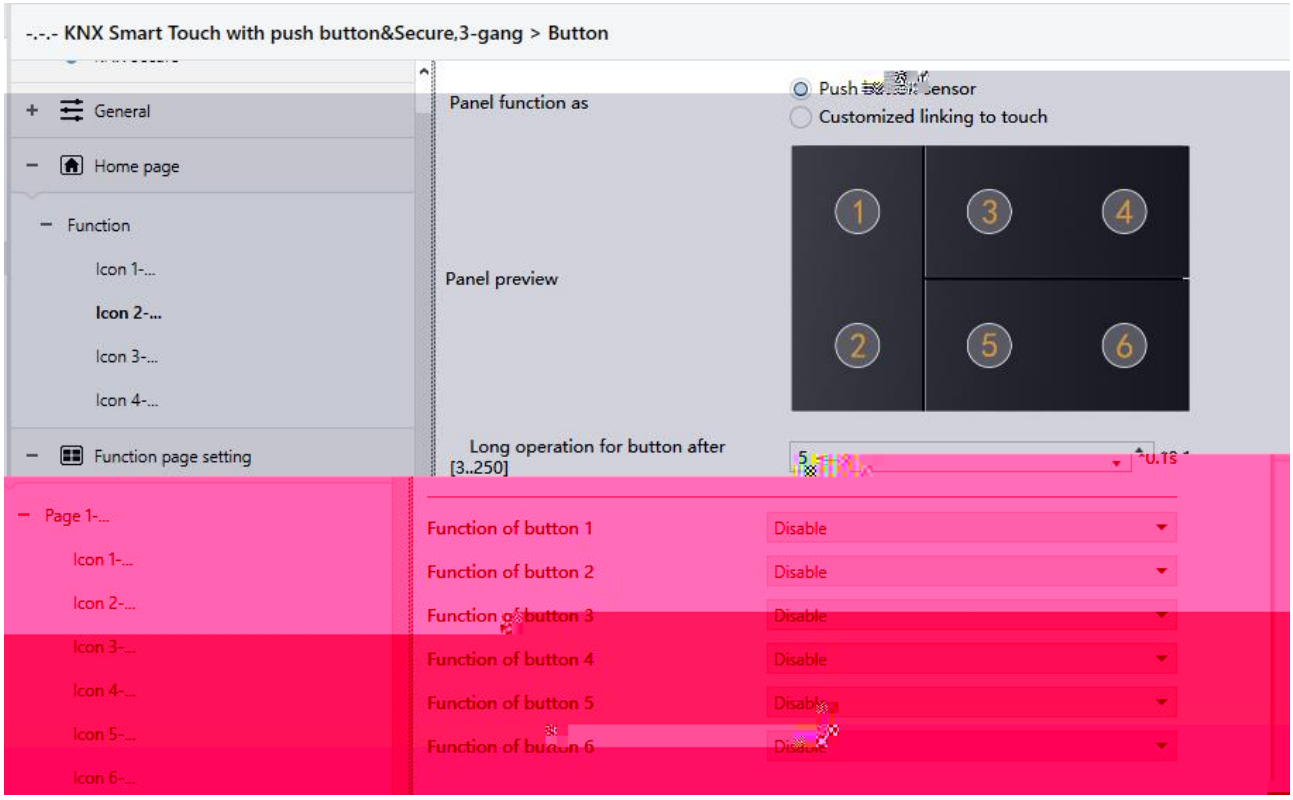
“ Long operation for button after [3..250]*0.1s”

k

k **3..250**

5.8.1.

“Push button sensor” k



5.8.1

“Function of button x”(x=1~6)

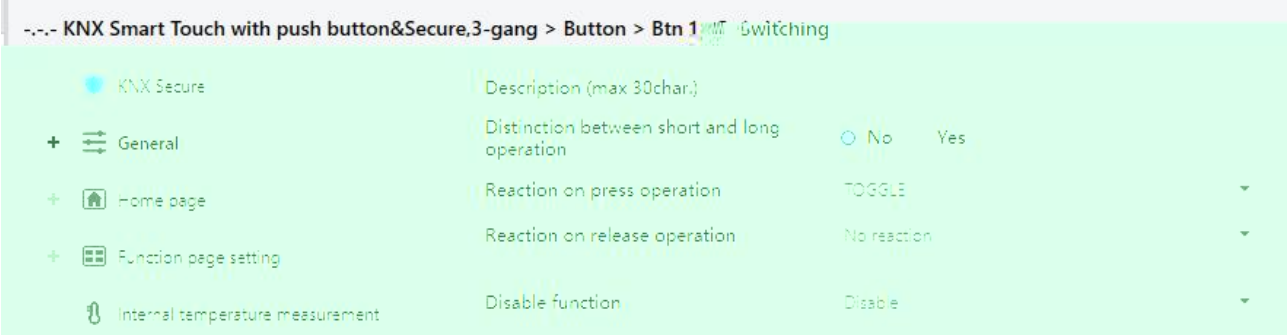
k

Disable	**Shift register**
Switch	**Multiple operation**
Dimming	**Delay mode**
Value sender	**RTC operation mode**
Scene control	**String(14bytes)**
Blind	

k

k

5.8.1.1.



5.8.1.1

"Description (max 30char.)"

k 30 k

"Distinction between short and long operation"

/ k

No

Yes

"Yes" k

"Reaction on short/press operation"

"Reaction on long/release operation"

/ / k

k

No reaction

OFF

ON

TOGGLE

No reaction k

ON

OFF

TOGGLE

k

"Number of objects"

"Reaction on long/release operation" "No reaction" k

1 2 k

1

2

"Disable function"

/ k

Disable

Disable=1/Enable=0

Disable=0/Enable=1

" " "Status LED indication when button disable"

"Disable=1/Enable=0" "Disable=0/Enable=1" k

k

No

Flashing

No

Flashing "Enable" 1s 1s k

" " "LED indication colour"

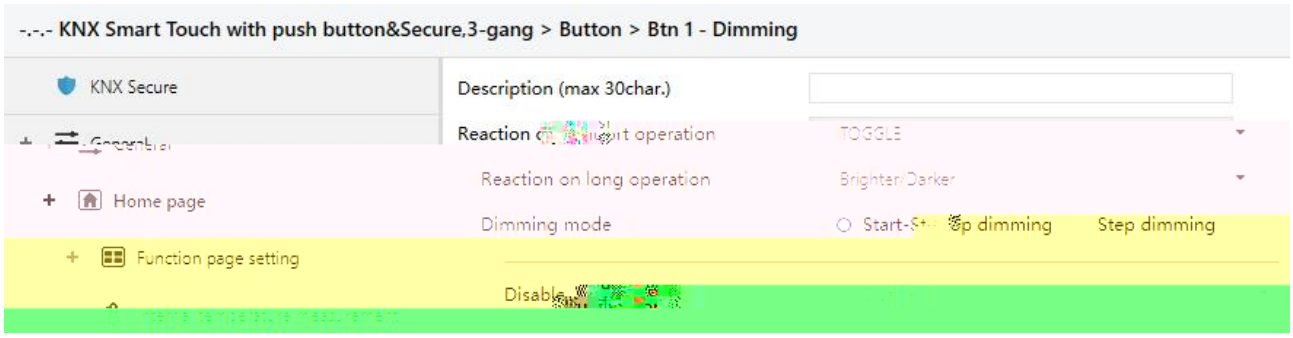
"Flashing" k

“Customized colour” k

Red	**Orange**	
Green	**Cyan blue**	
Blue	**Customized colour 1**	**1**
White	**Customized colour 2**	**2**
Yellow	**Customized colour 3**	**3**
Cyan	**Customized colour 4**	**4**
Magenta	**Customized colour 5**	**5**

k

5.8.1.2.



5.8.1.2

"Reaction on short operation"

k

No reaction

OFF

ON

TOGGLE

No reaction k

ON

OFF

TOGGLE k

"Reaction on long operation"

k

No reaction

Brighter

Darker

Brighter/Darker

No reaction k

Brighter k

Darker

Brighter/darker k

TOGGLE

k

k

"Dimming mode"

"No reaction" k k

Start-Stop dimming

Step dimming

Start-stop dimming

k k

Steps dimming k

" Step size"

"Step dimming" k k

100%

50%

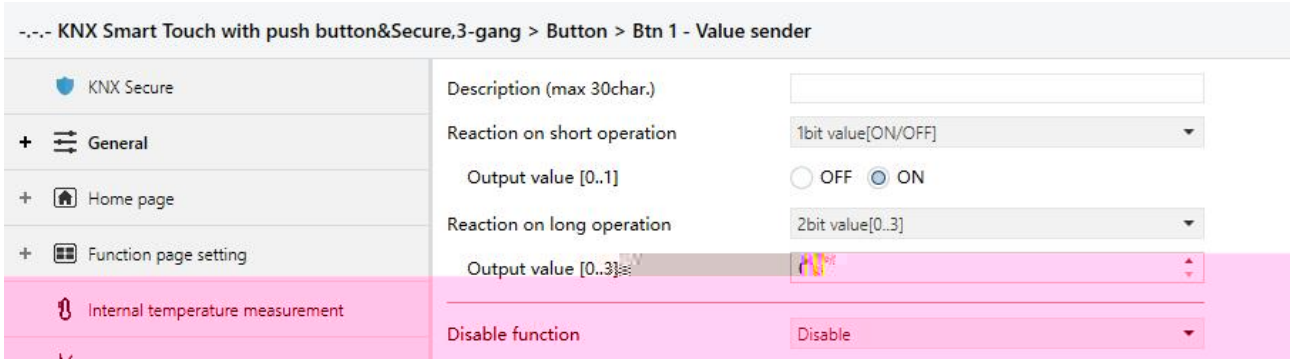
...

1.56%

" Interval of tele. cyclic send [0..25,0=send once]*0.1s"

"Step dimming" k k **0..25 0=**

5.8.1.3.



5.8.1.3

"Reaction on short operation"

"Reaction on long operation"

/ k

No reaction

1bit value[ON/OFF]

2bit value[0..3]

4bit value[0..15]

1byte value[0..255]

2byte value[0..65535]

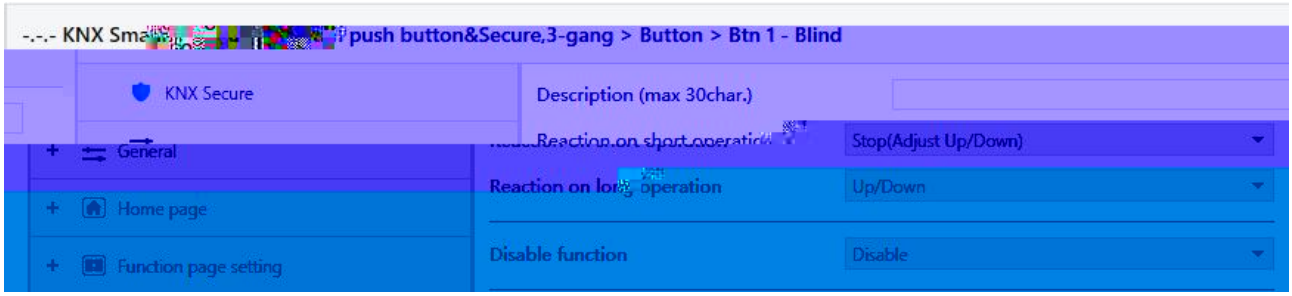
" " "Output value ..."

"No reaction" k / k

k

5.8.1.4 □□□□□□□□□ □□□□ □ □□□□□

5.8.1.5.



5.8.1.5

"Reaction on short operation"

"Reaction on long operation"

k

No reaction

Up

Down

Up/Down

Stop(Adjust Up)

Stop(Adjust Down)

Stop(Adjust Up/Down)

No reaction k

Up

Down

Up/Down / k

Stop (Adjust Up)

Stop (Adjust Down)

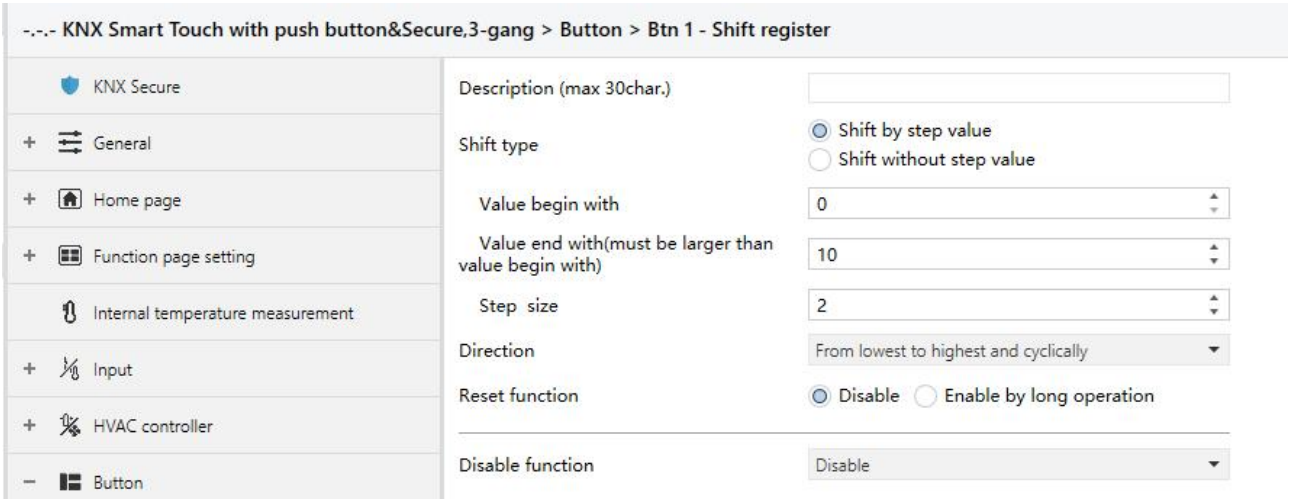
Stop (Adjust Up/Down) / k

" Interval of tele. cyclic send [0..25,0=send once]*0.1s "

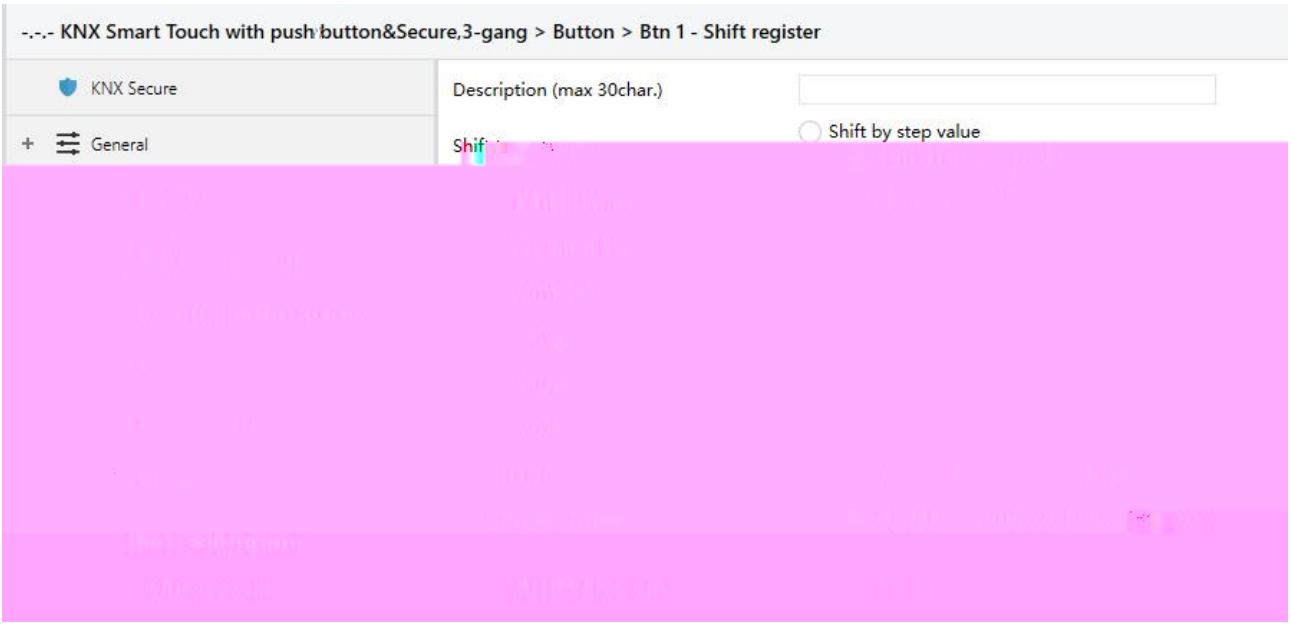
“Stop...” k k

0..25 0

5.8.1.6.



5.8.1.6(1)



5.8.1.6(2)

“Shift type”

k

Shift by step value

Shift without step value

Shift by step value

k

Shift without step value 10

k

“Shift by step value” **k**

“Value begin with”

k **0..240**

“Value end with(must be larger than value begin with)”

k **1..250**

k

“Step size”

k **0..240**

“Shift without step value” **k**

“Object datatype”

k 1 byte unsigned value/Scene number/HVAC mode

“Shift number”

10 k **0/1/2../10**

“Value x”(x=1~10)

k

0..255/Scene NO1~64/Comfort mode/standby mode/Economy mode/Frost/heat protection

“Direction”

k

From lowest to highest and stop to the end

From highest to lowest and stop to the begin

From lowest to highest and cyclically

From highest to lowest and cyclically

From lowest to highest and stop to the end k

From highest to lowest and stop to the begin k

From lowest to highest and cyclically

k

From highest to lowest and cyclically

k

”Reset function”

k

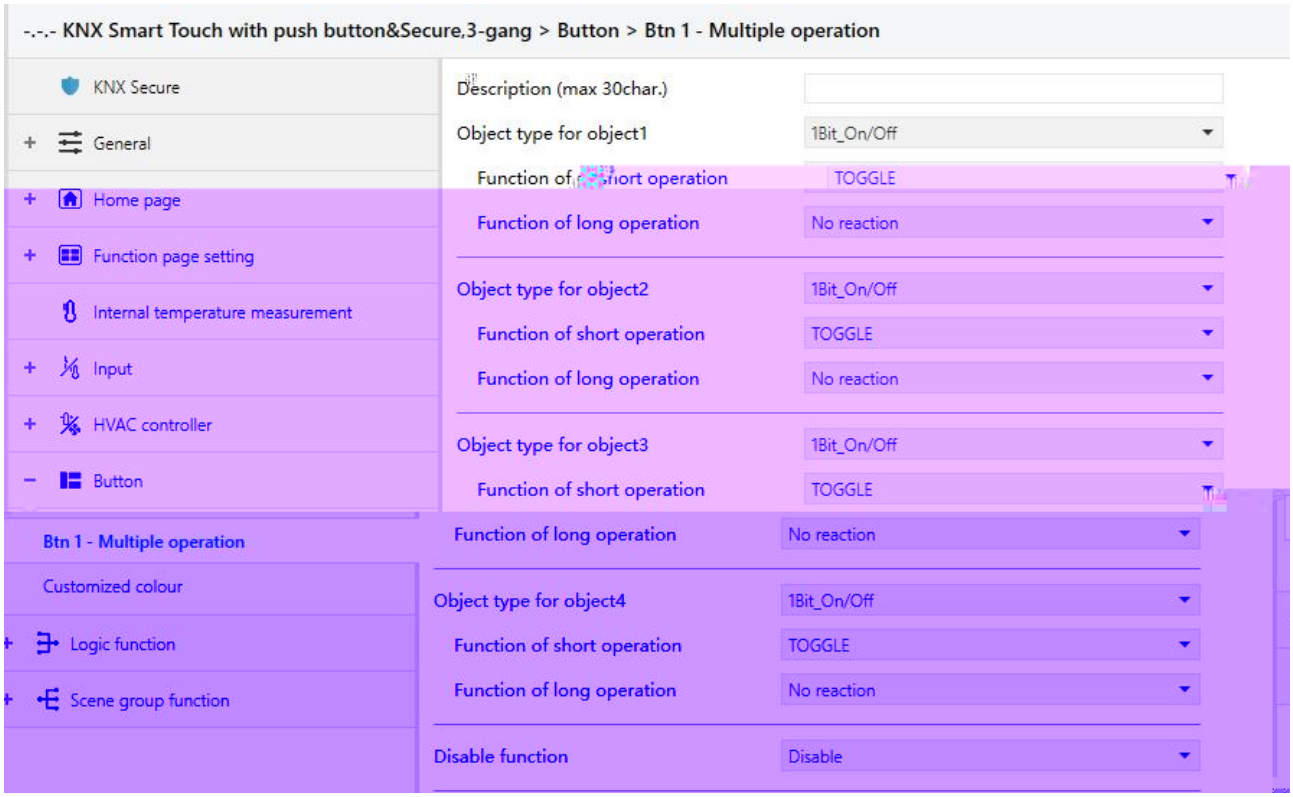
Disable

Enable by long operation

Disable

Enable by long operation k

5.8.1.7.



5.8.1.7

"Object type for object x"(x=1~4)

/ k

Disable

1Bit_On/Off

1Bit_Up/Down

1Byte_RecallScene

1Byte_StoreScene

1Byte_Percentage

1Byte_Unsigned value

- “Function of short operation”

- **“Function of long operation”**

No reaction (Send Value

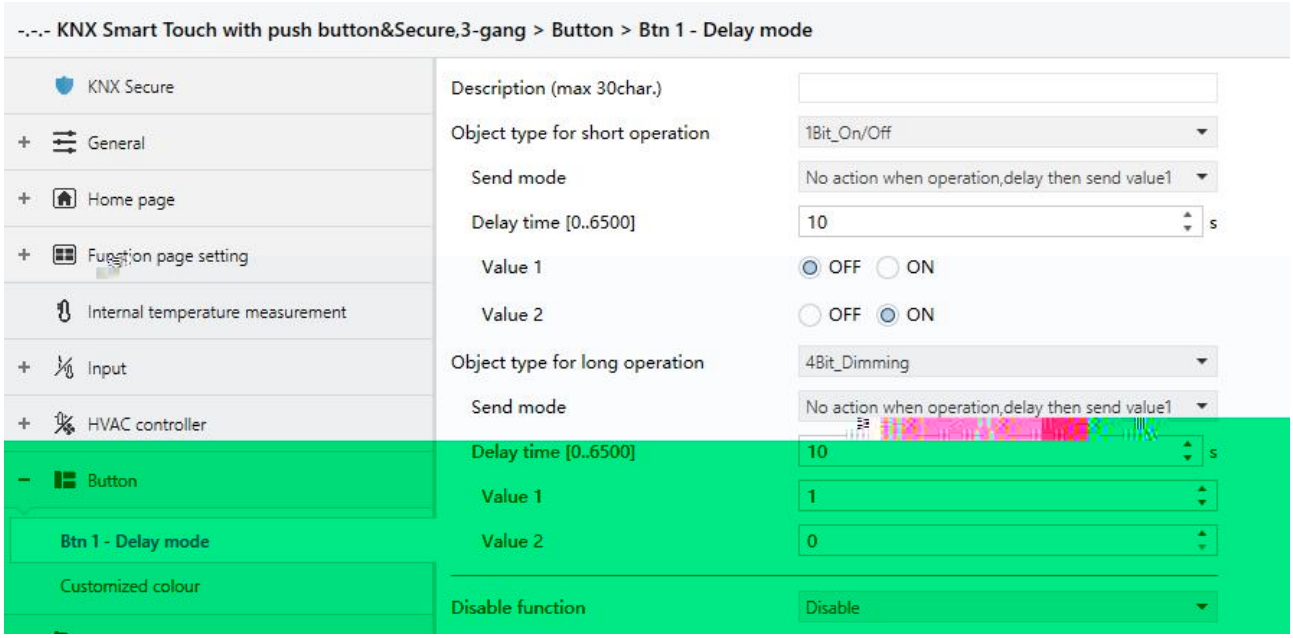
) k

- **“Value x...”(x=1~2)**

“1byte_RecallScene”“1byte_StoreScene”“1byte_Percentage”“1byte_Unigned value”

k k k

5.8.1.8.



5.8.1.8

“Object type for short operation”

“Object type for long operation”

/ k

Disable

1Bit_On/Off

4Bit_Dimming

1Byte_Unsigned value

“ Send mode”

k

No action when operation,delay then send value1 **1**

No action when operation,delay then send value2 **2**

Send value1 when operation,delay then send value2 **1** **2**

Send value2 when operation,delay then send value1 **2** **1**

“ Delay time [0..6500]s”

k **0..6500**

“Value x”(x=1~2)

1/2 k k

5.8.1.9.

5.8.1.9

"Object type for output"

k

1bit

1byte

"Reaction on short operation"

“Reaction on long operation”

/ k

No reaction

Send Value

" "Operation mode"

“No reaction” k k

Auto

Comfort mode

Standby mode

Economy mode

Frost/heat protection

1 0 k 0 k

1bit **Auto** k

"Standby mode object"

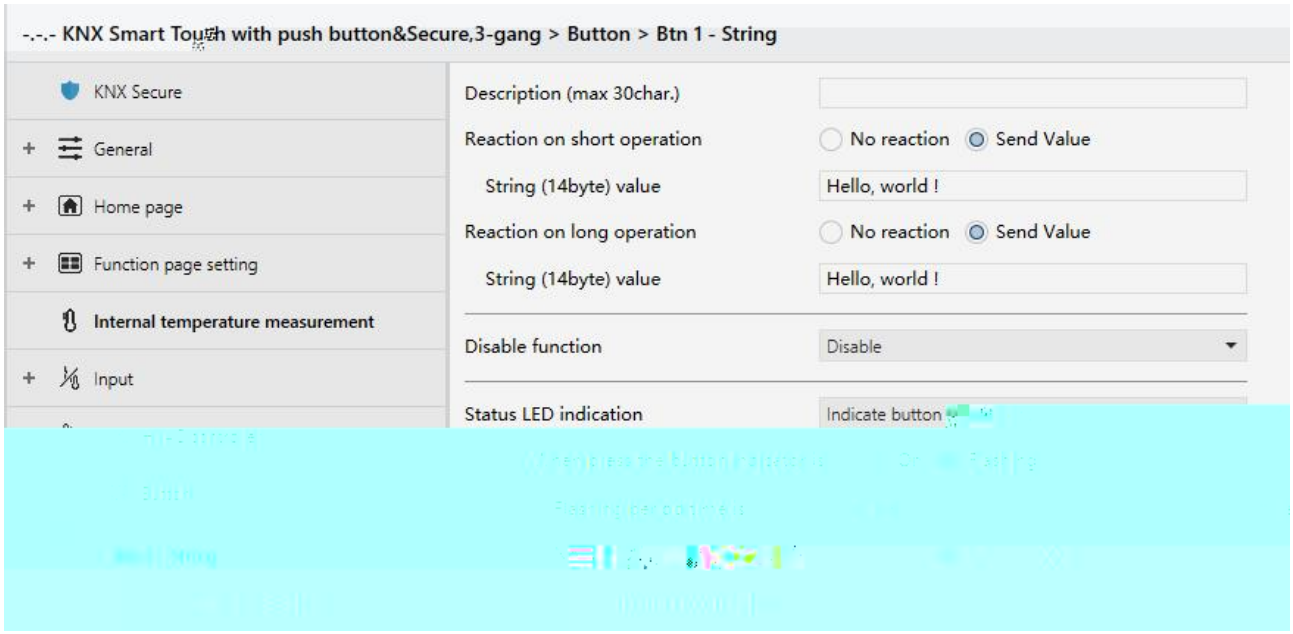
1 k

1bit "Send Value" k k

Disable

Enable

5.8.1.10. (14bytes)



5.8.1.10 (14bytes)

"Reaction on short operation"

"Reaction on long operation"

/ k

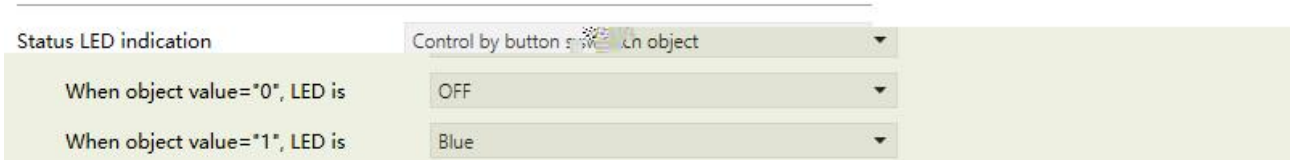
No reaction

Send Value

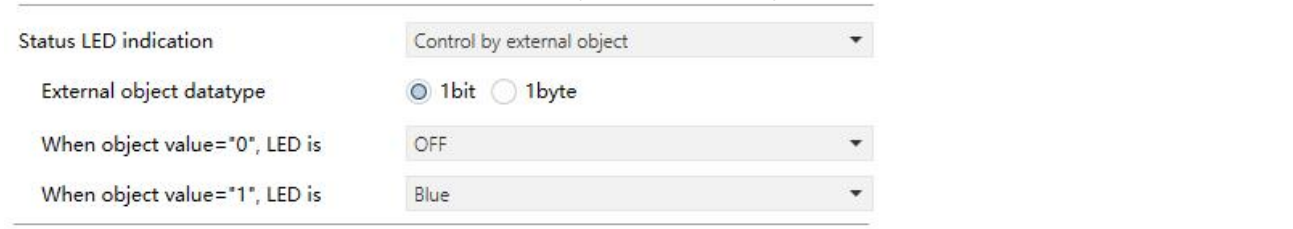
" " "String (14byte) value"

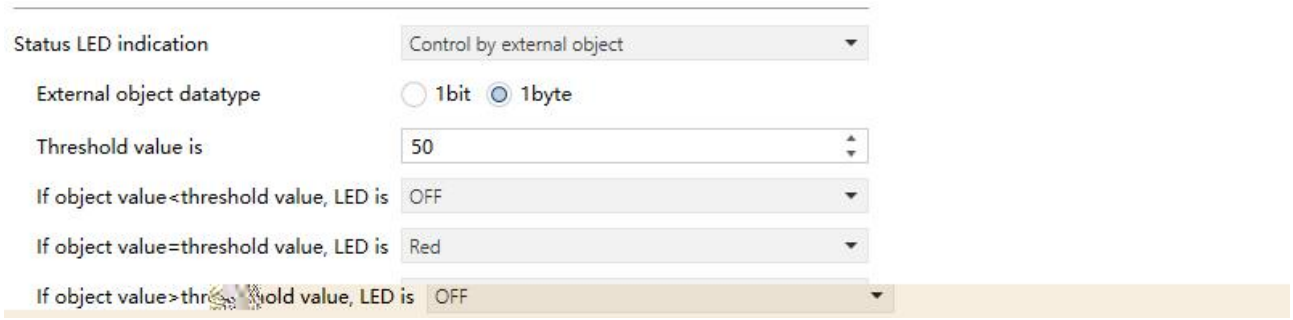
"Send Value" k k

5.8.1.11.LED

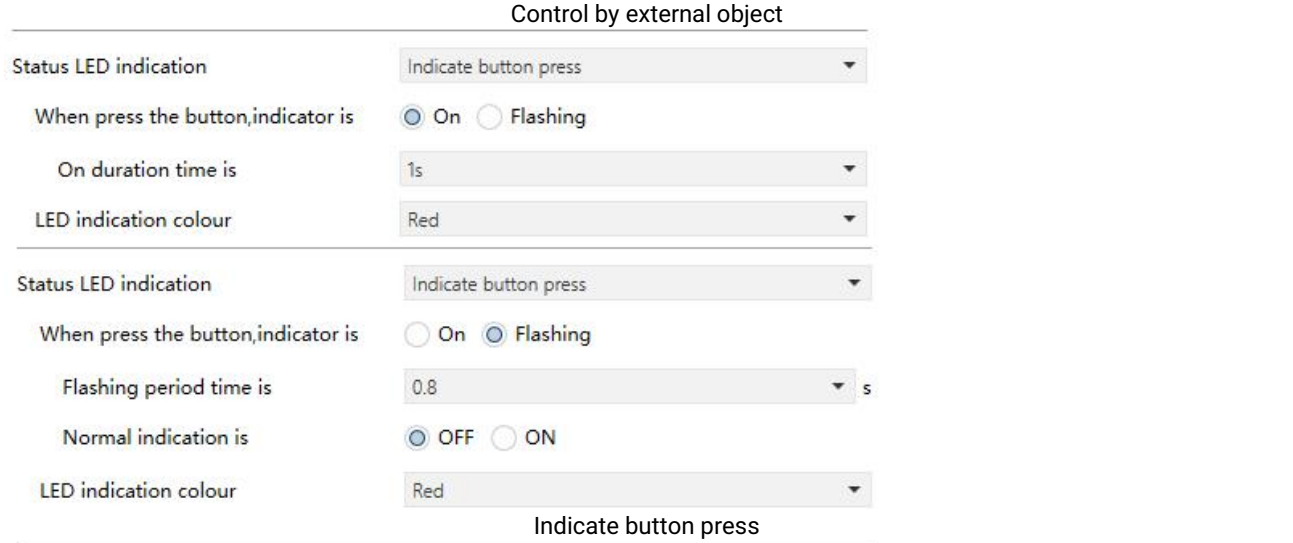


Control by button switch object





Control by external object



Indicate button press

Always on

5.8.1.11 LED

"Status LED indication"

LED k

Disable

Control by button switch object

Control by external object

Indicate button press

Always on

“Control by button switch object” k

LED “Control by button switch object” k

“When object value="0", LED is”

“When object value="1", LED is”

LED k

OFF	**Orange**	
Red	**Cyan blue**	
Green	**Customized colour 1**	**1**
Blue	**Customized colour 2**	**2**
White	**Customized colour 3**	**3**
Yellow	**Customized colour 4**	**4**
Cyan	**Customized colour 5**	**5**
Magenta		

LED **“Control by external object”** k

“External object datatype”

k

1bit

1byte

k

1bit k

“When object value="0", LED is”

“When object value="1", LED is”

1bit LED k

OFF	**Orange**	
Red	**Cyan blue**	
Green	**Customized colour 1**	**1**
Blue	**Customized colour 2**	**2**
White	**Customized colour 3**	**3**
Yellow	**Customized colour 4**	**4**
Cyan	**Customized colour 5**	**5**
Magenta		

1byte k

“Threshold value is”

k **1..255**

- **“If object value<threshold value, LED is”**
- **“ If object value=threshold value, LED is”**
- **“ If object value>threshold value, LED is”**

LED k

OFF	**Orange**
Red	**Cyan blue**
Green	**Customized colour 1** **1**
Blue	**Customized colour 2** **2**
White	**Customized colour 3** **3**
Yellow	**Customized colour 4** **4**
Cyan	**Customized colour 5** **5**
Magenta	

LED **“Indicate button press”** **k**

- **“ When press the button,indicator is”**

LED k

On

Flashing

On k

- **“On duration time is”**

LED k

500ms

1s

2s

3s

Flashing k

“Flashing period time is”

LED k

0.4s

0.8s

...

2.0s

“Normal indication is”

LED LED k

OFF

ON

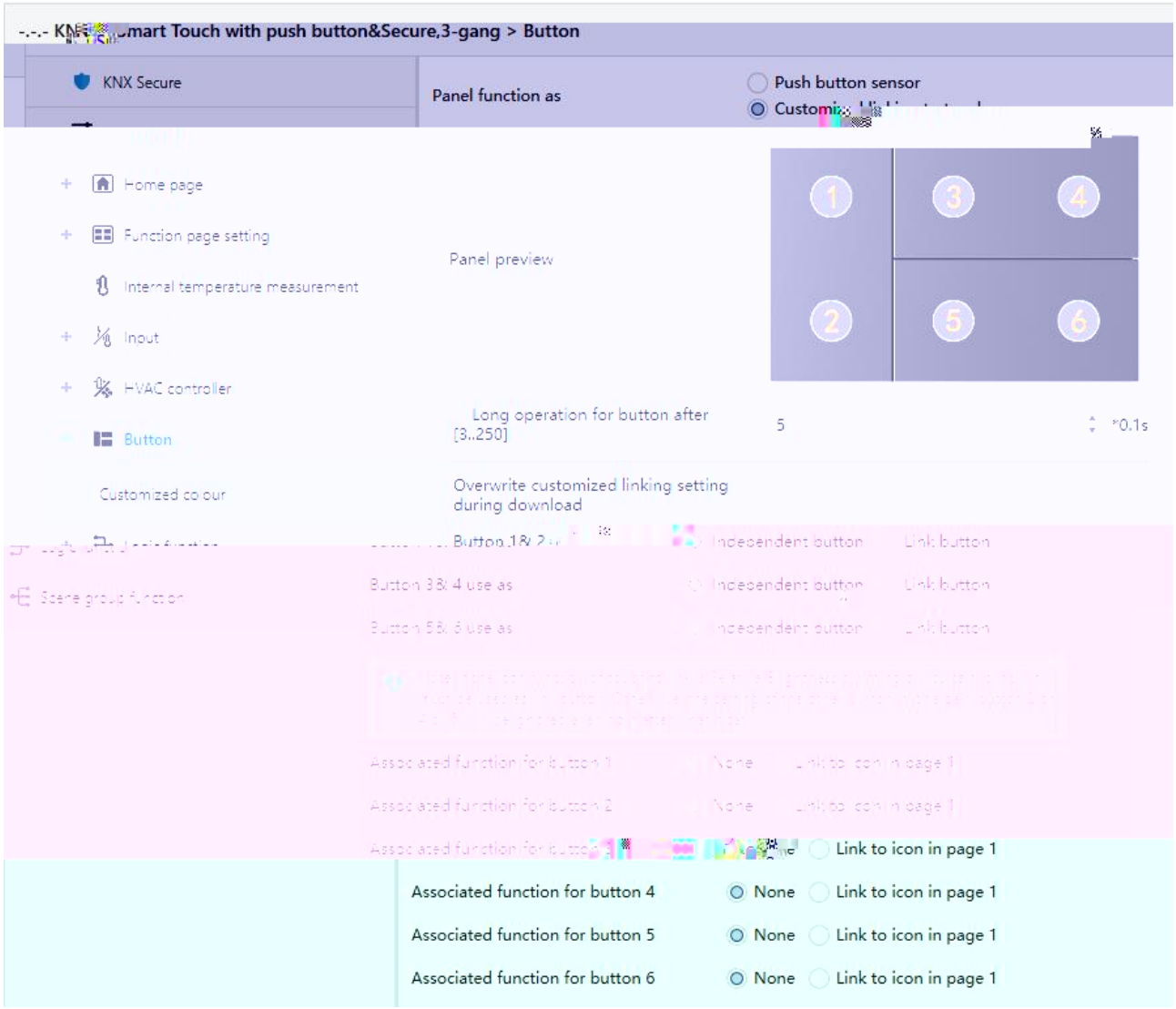
LED “Indicate button press” “Always on” k

“LED indication colour”

LED k

Red	**Orange**	
Green	**Cyan blue**	
Blue	**Customized colour 1**	**1**
White	**Customized colour 2**	**2**
Yellow	**Customized colour 3**	**3**
Cyan	**Customized colour 4**	**4**
Magenta	**Customized colour 5**	**5**

5.8.2.



5.8.2

"Overwrite customized linking setting during download"

ETS k

k

"Button 1& 2 use as"

"Button 3& 4 use as"

"Button 5& 6 use as"

k

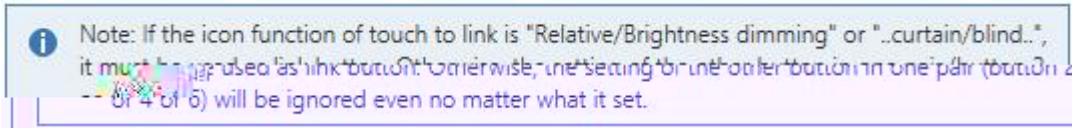
Independent button

Link button

"Independent button" 1 !2 "Link button"

1&2 ! k

! **Independent button** k



Relative/Brightness dimming **..curtain/blind..**

k **2 4 6** k

"Associated function for button 1/.../6"

"Independent button" k k

None

Link to icon in page 1

Link to icon in page 2

...

Link to icon in page 6

"Associated function for button 1&2/3&4/5&6"

"Link button" k k

None

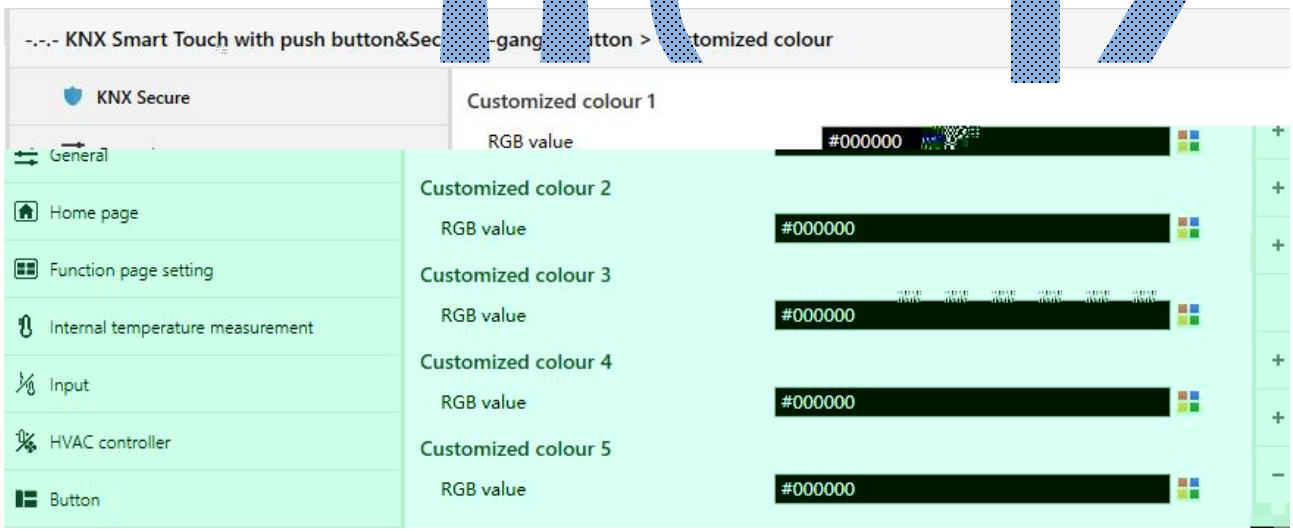
Link to icon in page 1

Link to icon in page 2

...

Link to icon in page 6

5.8.3. “Customize colour”

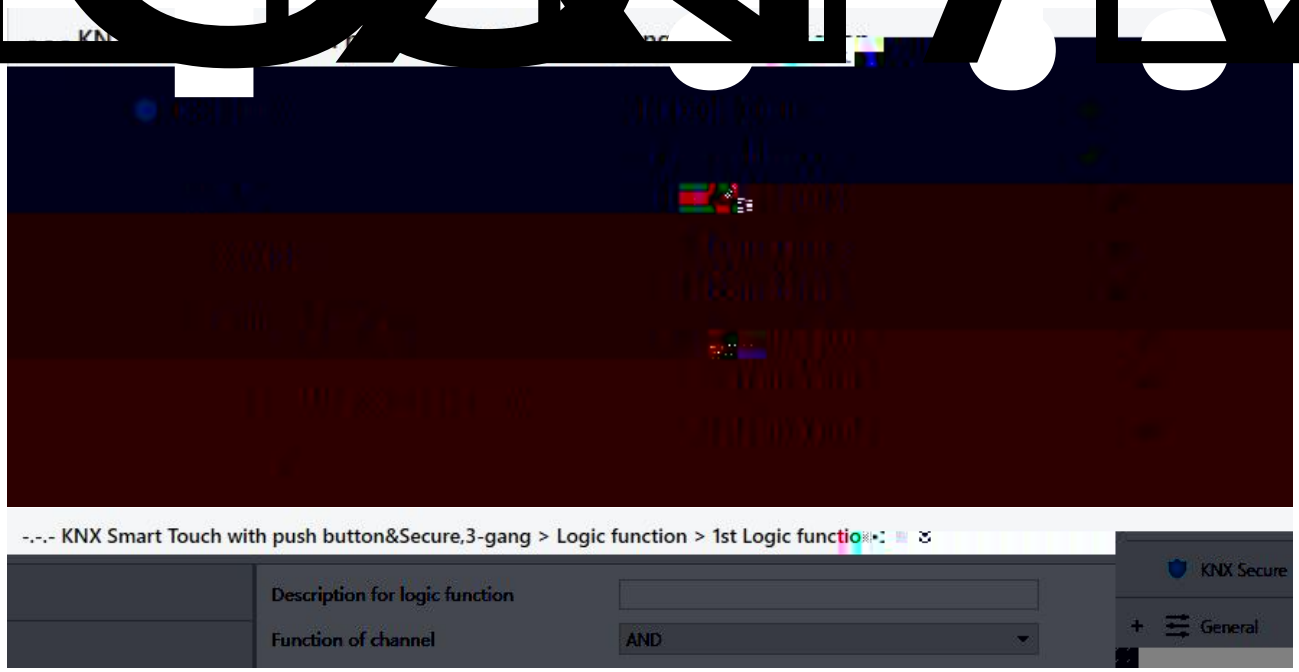


5.8.3 “Customized colour”

Customized colour x (x=1~5)

“RGB value”

LED



5.9 “Logic function setting”

“1st/2nd/3rd... Logic function”

Format convert

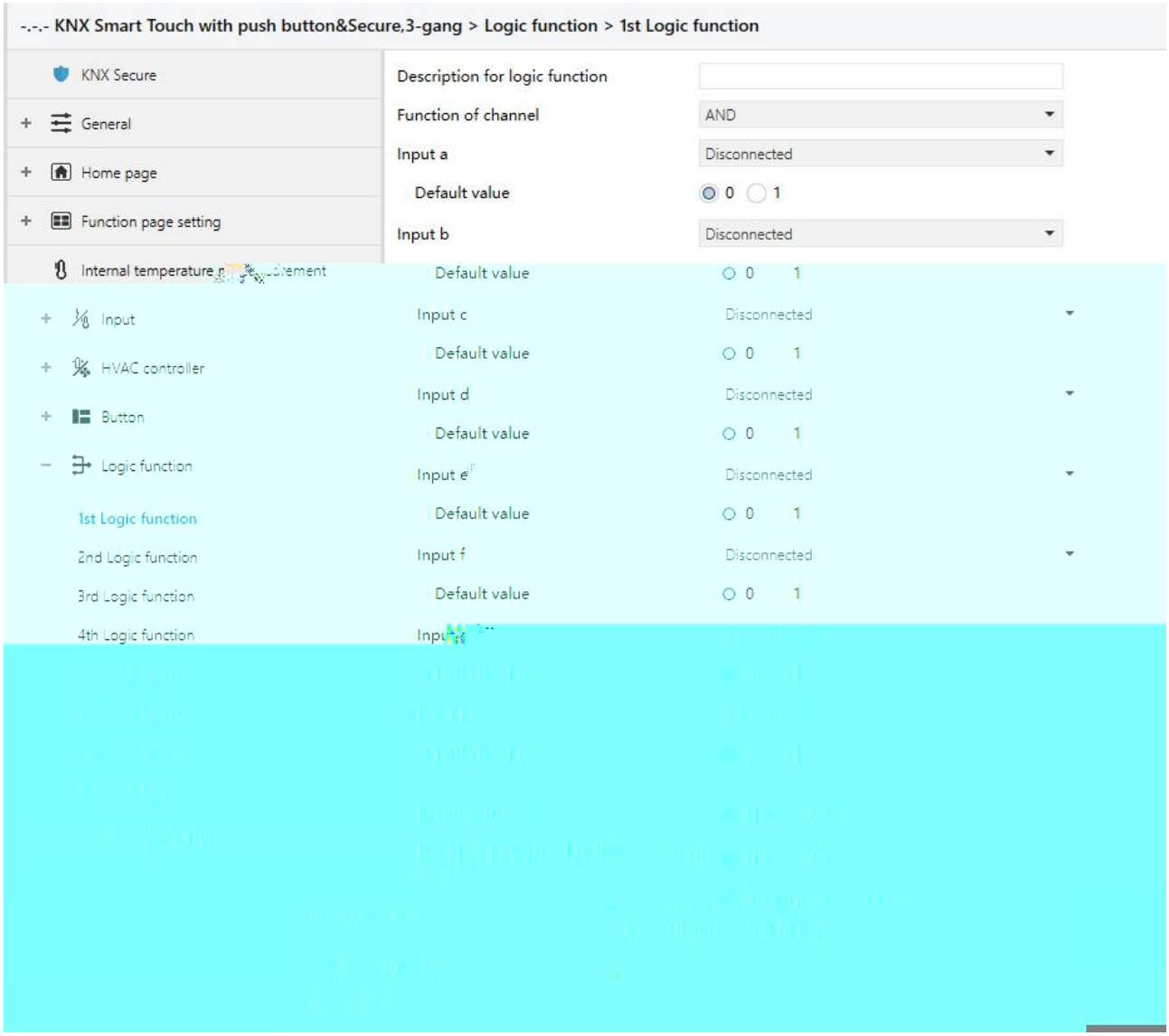
Gate function

Delay function

Staircase lighting

AND/OR/XOR k

5.9.1.“AND/OR/XOR”



5.9.1 “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 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

...

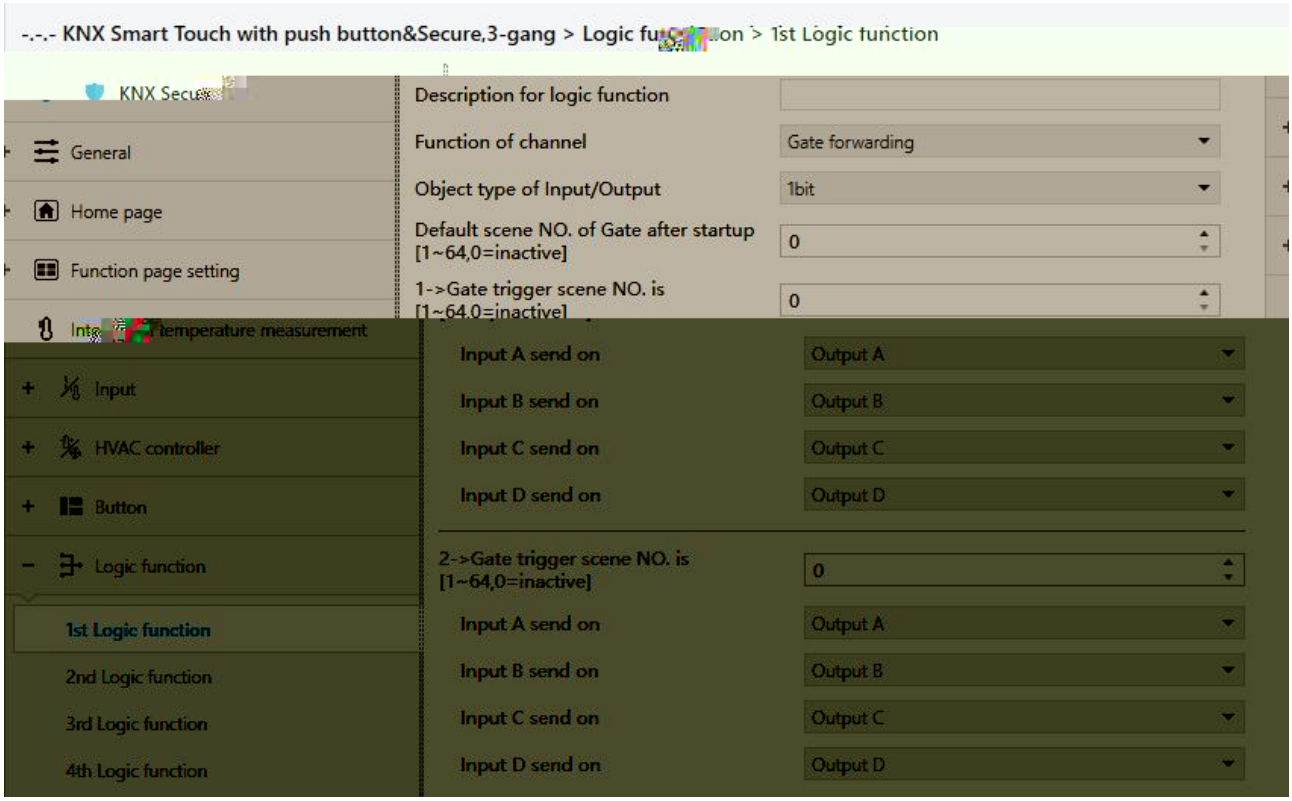
10s

25s

Factor: **1..255**

k Base x Factor Base "None" k

5.9.2.“Gate forwarding”



5.9.2 “Gate forwarding”

“Object type of Input/Output”

/ k

1bit

4bit

1byte

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

k

0..64 0=

k

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

k 8 k

0..64 0=

" " "Input A/B/C/D send on"

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

Disable

Output A

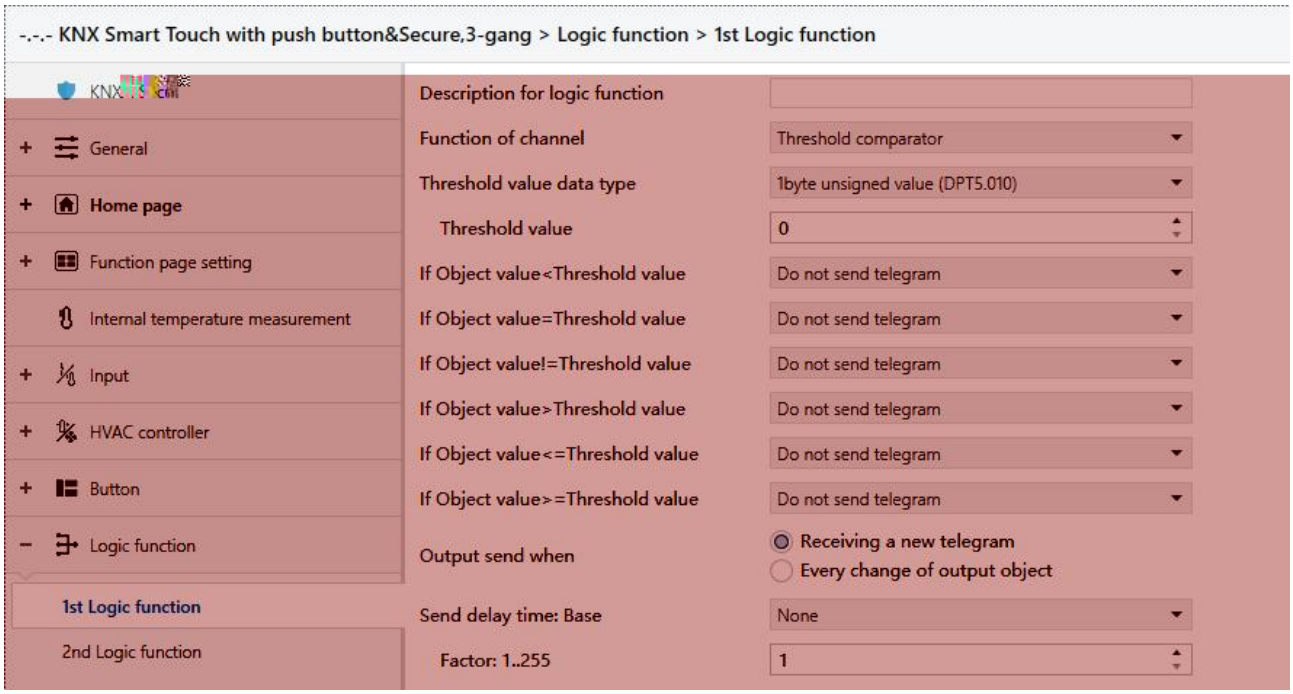
Output B

...

Output B,C,D

k k

5.9.3."Threshold comparator"



5.9.3 "Threshold comparator"

"Threshold value data type"

k

4bit value (DPT3.007)

1byte unsigned value (DPT5.010)

2byte unsigned value (DPT7.001)

2byte signed value (DPT8.x)

2byte float value

4byte unsigned value[0..4294967295]

Ext. temperature value (DPT 9.001)

Ext. humidity value (DPT 9.007)

Illuminance value (DPT 9.004)

! ! ! !

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

k

Do not send telegram

Send value "0"

Send value "1"

Do not send telegram

Send value “0”/“1” 0 1 k

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: **None**

0.1s

1s

...

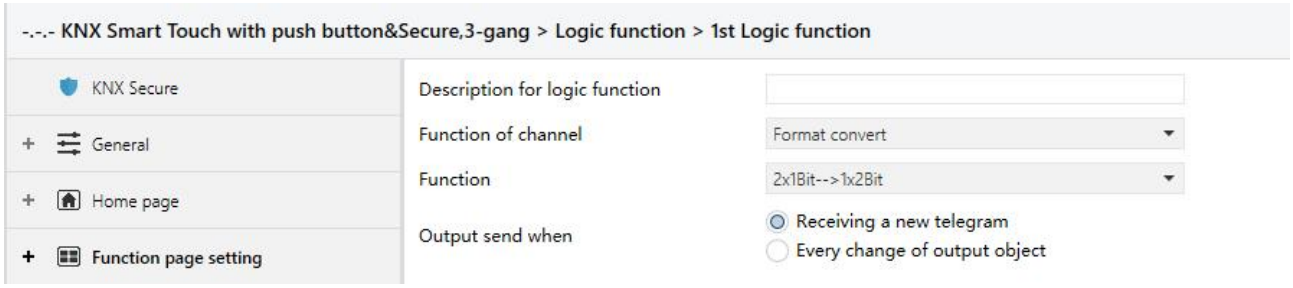
10s

25s

Factor: **1..255**

k Base x Factor Base “None” k

5.9.4.“Format convert”



5.9.4 “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

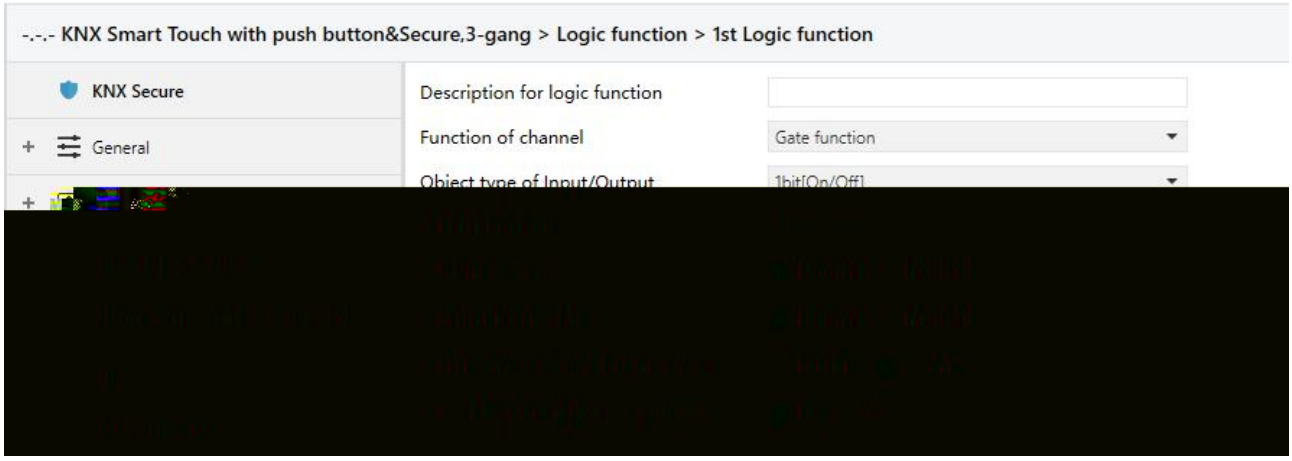
Every change of output object

Receiving a new telegram

Every change of output object k

k

5.9.5."Gate function"



5.9.5 "Gate function"

"Object type of Input/Output"

/ k

1bit[On/Off]

1byte[0..100%]

1byte[0..255]

2byte[Float]

2byte[0..65535]

“Filter function”

“1bit[On/Off]” k On Off

k

Deactivate

On filter out

Off filter out

Deactivate On Off

On filter out Off On

Off filter out On Off k

“Value output”

“1bit[On/Off]” k k

Normal

Inverted

“Gate object value”

k

Normal

Inverted

“Gate status after voltage recovery”

k

Disable

Enable

"Save input [redacted] when [redacted]"

k

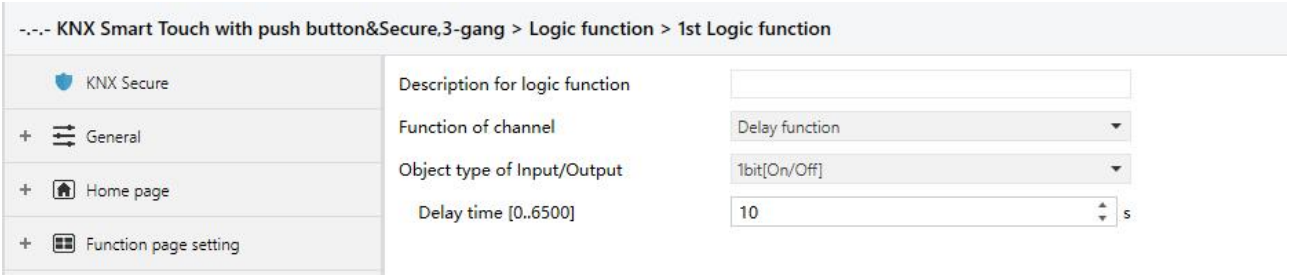
No

Yes

No

Yes k

5.9.6."Delay function"



5.9.6 "Delay function"

"Object type of Input/Output"

/ k

1bit[On/Off]

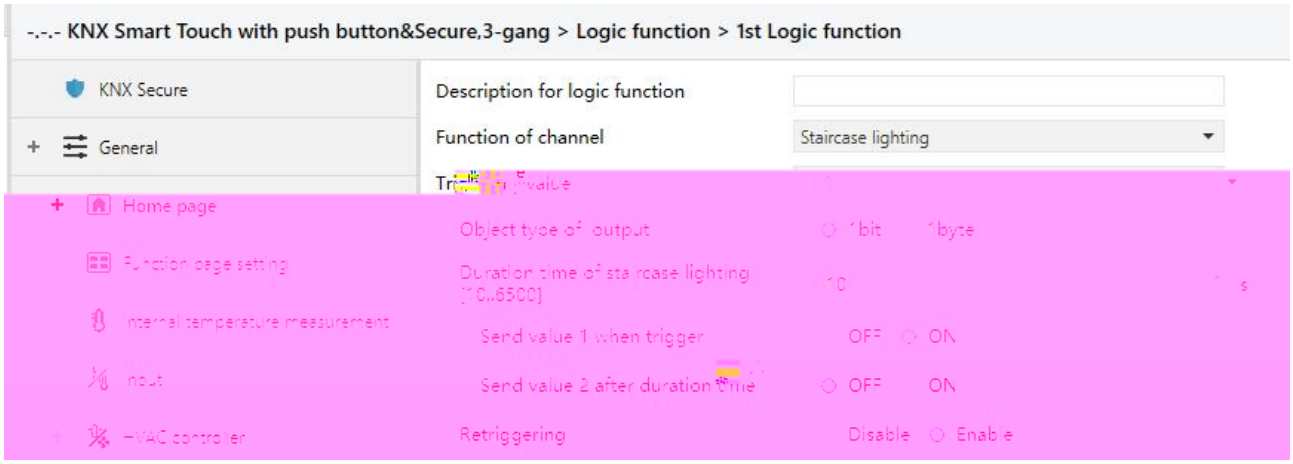
1byte[0..100%]

1byte[0..255]

2byte[Float]

2byte[0..6-Fl

5.9.7.“Staircase lighting”



5.9.7 “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**

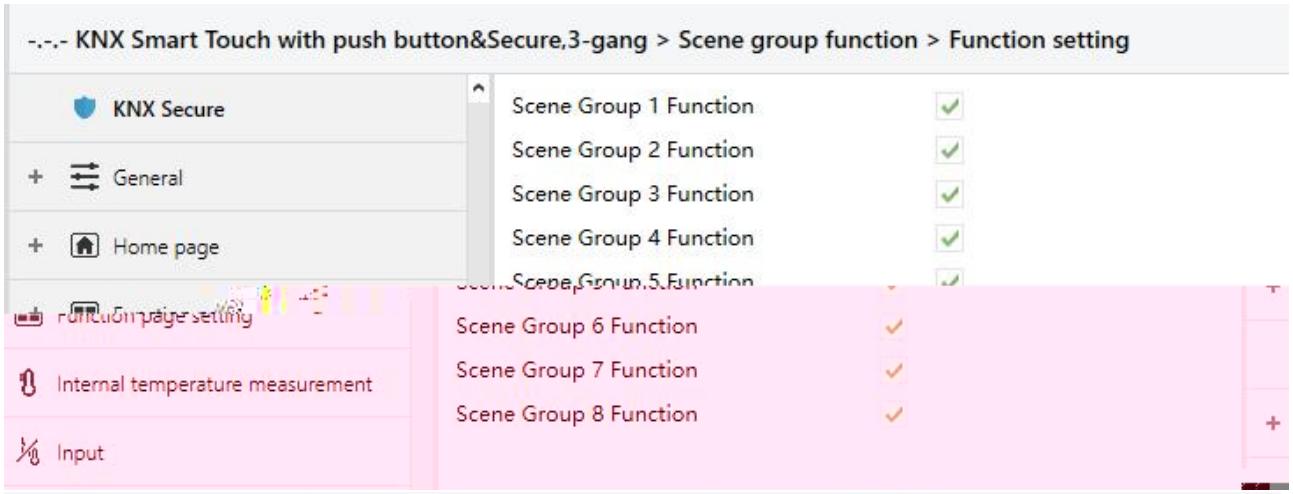
"Retriggering"

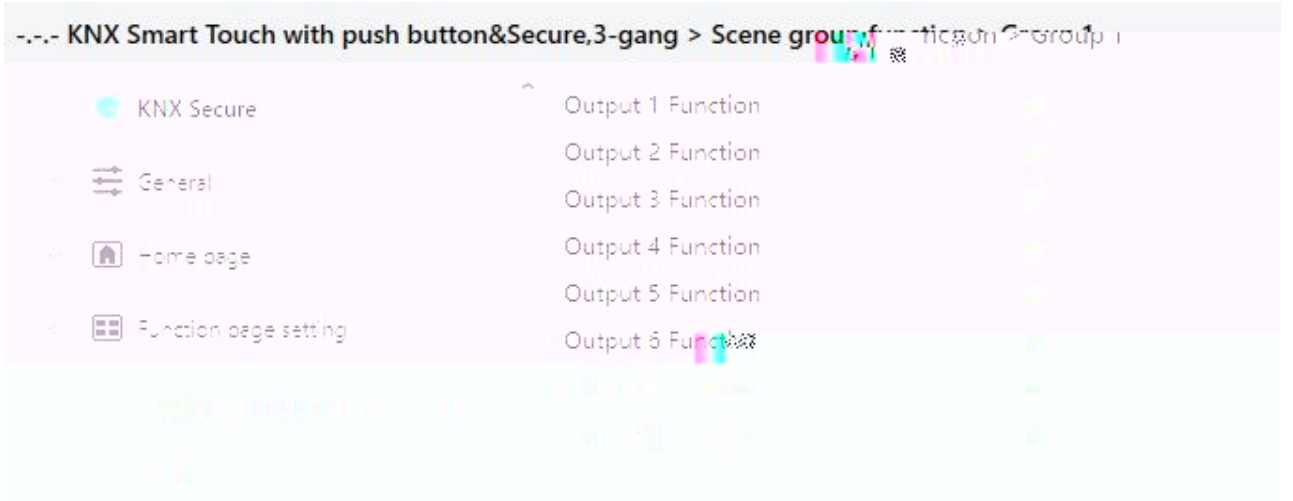
k

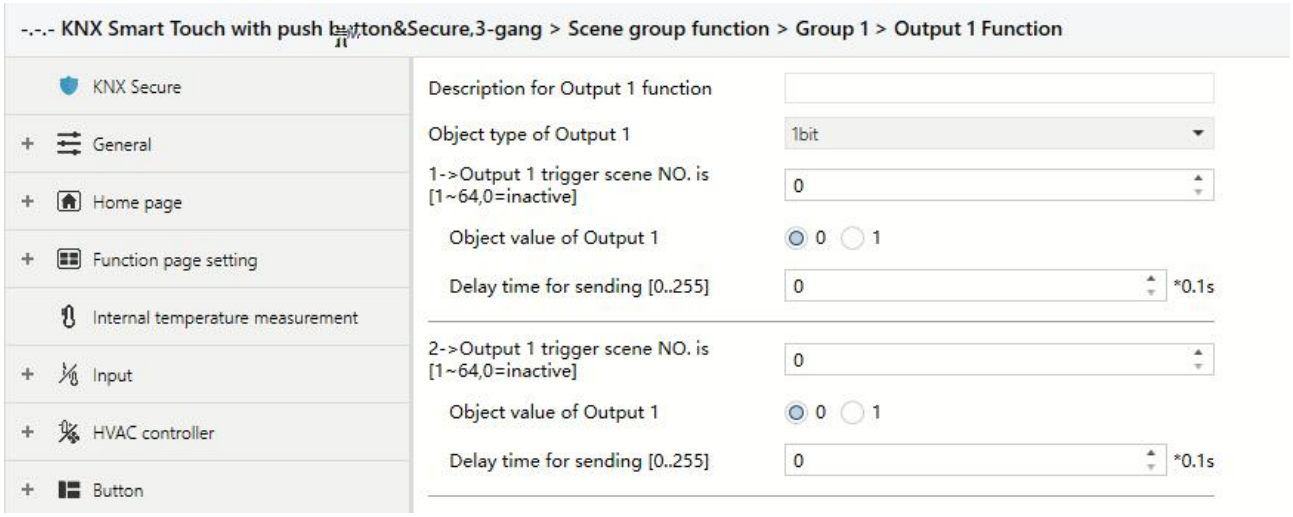
Disable

Enable

5.10. **"Scene Group"**







5.10 “Scene Group”

“Scene Group x Function”(x=1~8)

x 8 k

“Output y Function”(y=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 y”(y=1~8)

x y k

1bit

1byte

2byte

"Object datatype"

1byte 2byte k

1byte

1byte unsigned value

HVAC mode

2byte

2byte unsigned value

Temperature value

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

x y k 8 k

0..64 0=

" " "Object value of Output y"

y

1bit **0..1**

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

1byte-HVAC mode

Comfort mode

Standby mode

Economy mode

Frost/heat protection

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

2byte-Temperature value

-5°C

-4°C

...

45°C

"Delay time for sending [0 255]*0.1s"

k **0..255**

k

“C” **“W”** **“R”**

“T” **“U”** k

6.1.“General”

Number	Name	Object Function	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
1006	Extension function	Screen [illegible]		1 bit	C	-	W	-	-	enable	Low
1007	Extension function	Screen on/off		1 bit	C	-	W	-	-	switch	Low
1008	Extension function	Result, Trigger bit value		1 bit	C	-	-	T	-	switch	Low
1009	Extension function	Result, Trigger bit value		1 bit	C	-	-	T	-	switch	Low
1010	Extension function	Result, Trigger bit value		1 bit	C	-	-	T	-	switch	Low
1011	Extension function	Light mode		1 bit	C	R	-	T	-	day/night	Low
1012	Extension function	Summary [illegible]		1 bit	C	R	-	T	-	enable	Low
1013	Extension function	Disable Proximity function		1 bit	C	-	W	-	-	enable	Low
1015	Extension function	Proximity output		1 bit	C	-	-	T	-	switch	Low
1017	Extension function	Alarm acknowledge		1 bit	C	-	-	T	-	acknowledge	Low
1018	Extension function	Alarm message		14 bytes	C	-	W	-	-	Character String (ISO 8859-1)	Low
1019	Extension function	Alarm input		1 bit	C	-	W	T	U	alarm	Low
1020	Screensaver-Items 1	PM2.5 value		2 bytes	C	-	W	T	U	pulses	Low
1021	Screensaver-Items 2	[illegible] value		2 bytes	C	-	W	T	U	pulses	Low
1022	Screensaver-Items 3	VOC value		2 bytes	C	-	W	T	U	pulses	Low
1023	Screensaver-Items 4	PM2.5 value		2 bytes	C	-	W	T	U	pulses	Low

1014	Extension function	Proximity input		1 bit	C	-	W	-	-	switch	Low

6.1 “General”

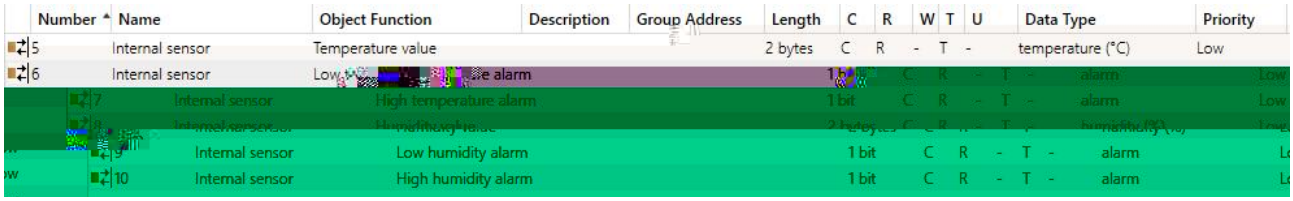
					DPT
1	**In operation**	**General**	**1bit**	**C,R,T**	**1.001 switch**
		“1”		k	
2	**Date**	**General**	**3bytes**	**C,W**	**11.001 date**
		k			
3	**Time**	**General**	**3bytes**	**C,W**	**10.001 time of day**
		k			
4	**Screen brightness**	**General**	**1byte**	**C,W**	**5.001 percentage(0..100%)**
		k k 10~100% 10% 10% k			
1006	**Screen locking**	**Extension function**	**1bit**	**C,W**	**1.003 enable**
		k 0 1			
1007	**Screen on/off**	**Extension function**	**1bit**	**C,W**	**1.001 switch**
		/ LED k 0 1			

1008/ 1009/ 1010	**Security 1/2/3 trigger,1bit value Security 1/2/3 trigger,1byte value Security 1/2/3 trigger,scene NO.**	**Extension function**	**1bit 1byte**	**C,T**	**1.001 switch 5.010 counter pulses 5.001 percentage 17.001 scene number**
k k					
1011	**Night mode**	**Extension function**	**1bit**	**C,R,T C,W,T**	**1.024 day/night**
/ k 0 ˚ ˚ 1 ˚ ˚ / C,W,T C,R,T k					
1012	**Summer time status**	**Extension function**	**1bit**	**C,R,T**	**1.003 enable**
k 1 ˚ ˚ 0 ˚ ˚					
1013	**Dis/En Proximity function**	**Extension function**	**1bit**	**C,W**	**1.003 enable**
/ k					
1014	**Proximity input**	**Extension function**	**1bit**	**C,W**	**1.001 switch**
k 1 ˚ 0 ˚					

1015	**Proximity output**	**Extension function**	**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					
1017	**Alarm acknowledge**	**Extension function**	**1bit**	**C,T**	**1.016 acknowledge**
1 k					
1018	**Alarm message**	**Extension function**	**14byte**	**C,W**	**16.001 character string (ISO 8859-1)**
k k					
1019	**Alarm input**	**Extension function**	**1bit**	**C,W,T,U**	**1.005 alarm**
k 0 ˚ ˚ 1 ˚ ˚					
1020	**Temperature value**	**Screensaver-Items 1**	**2byte**	**C,W,T,U**	**9.001 temperature**
k -40...40℃					
1020	**Humidity value**	**Screensaver-Items 1**	**2byte**	**C,W,T,U**	**9.007 humidity**
k 0~100%					
1020	**PM2.5/PM10/VOC value**	**Screensaver-Items 1**	**2byte**	**C,W,T,U**	**7.001 pulse** **9.030 concentration(ug/m3)**
PM2.5/PM10/VOC ug/m^3 k 0~999ug/m^3 k					

1020	**CO2 value**	**Screensaver-Items 1**	**2byte**	**C,W,T,U**	**7.001 pulse** **9.008 parts/million(ppm)**
CO2 ppm k 0~4000ppm k					
1020	**Brightness value**	**Screensaver-Items 1**	**2byte**	**C,W,T,U**	**7.013 brightness(lux)** **9.004 lux**
lux k 0~65535lux k					
1020	**Wind speed**	**Screensaver-Items 1**	**2byte**	**C,W,T,U**	**9.005 speed** **9.028 wind speed**
k m/s km/h k					
1020	**AQI value**	**Screensaver-Items 1**	**2byte**	**C,W,T,U**	**7.001 pulse**
AQI k 0~500					
1020	**Rain state**	**Screensaver-Items 1**	**1bit**	**C,W,T,U**	**1.001 switch**
k 1 ˚ 0 ˚					

6.2.“Internal sensor”



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

6.2 “Internal sensor”

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

6.2 “Internal sensor”

6.3.“Input”

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1000	Input 1 - Temperature probe	Actual temperature, Sensor			2 bytes	C	R	-	T	-	temperature (°C)	Low
1001	Input 1 - Temperature probe	Temperature										

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1000	Input 1 - Switch sensor	Close, Switch			1 bit	C	-	W	T	U	switch	Low
1001	Input 1 - Switch sensor	Open, Switch			1 bit	C	-	W	T	U	switch	Low

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1000	Input 1 - Switch sensor	Short, Switch			1 bit	C	-	W	T	U	switch	Low
1001	Input 1 - Switch sensor	Long, Switch			1 bit	C	-	W	T	U	switch	Low
1002	Input 1 - Switch sensor	Disable			1 bit	C	-	W	-	-	enable	Low

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1000	Input 1 - Scene control	Scene			1 byte	C	-	-	T	-	scene control	Low

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1000	Input 1 - Scene control	Close, Scene			1 byte	C	-	-	T	-	scene control	Low
1001	Input 1 - Scene control	Open, Scene			1 byte	C	-	-	T	-	scene control	Low
1002	Input 1 - Scene control	Disable			1 bit	C	-	W	-	-	enable	Low

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1000	Input 1 - Scene control	Short, Scene			1 byte	C	-	-	T	-	scene control	Low
1001	Input 1 - Scene control	Long, Scene			1 byte	C	-	-	T	-	scene control	Low
1002	Input 1 - Scene control	Disable			1 bit	C	-	W	-	-	enable	Low

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1000	Input 1 - Send String	Close, String			14 bytes	C	-	-	T	-	Character String (ISO 8859-1)	Low
1001	Input 1 - Send String	Open, String			14 bytes	C	-	-	T	-	Character String (ISO 8859-1)	Low
1000	Input 1 - Send String	Short, String			14 bytes	C	-	-	T	-	Character String (ISO 8859-1)	Low
1001	Input 1 - Send String	Long, String			14 bytes	C	-	-	T	-	Character String (ISO 8859-1)	Low
1002	Input 1 - Send String	Disable			1 bit	C	-	W	-	-	enable	Low

6.3 “Input”

					DPT
1000	**Actual temperature, Sensor**	**Input 1 - {{Temperature probe}}**	**2bytes**	**C,R,T**	**9.001 temperature**
		k	-50~99.8℃		
	“Description (max 30char.)”				“Input x - ...” k
	k				

1001	**Temperature error report, Sensor**	**Input 1 - {{Temperature probe}}**	**1bit**	**C,R,T**	**1.005 alarm**
1000	**Switch**	**Input 1 - {{Switch sensor}}**	**1bit**	**C,W,T,U**	**1.001 switch**
1000	**Close/Short, Switch**	**Input 1 - {{Switch sensor}}**	**1bit**	**C,W,T,U**	**1.001 switch**
1001	**Open/Long, Switch**	**Input 1 - {{Switch sensor}}**	**1bit**	**C,W,T,U**	**1.001 switch**
1000	**Scene**	**Input 1 - {{Scene control}}**	**1byte**	**C,T**	**18.001 scene control**
1000	**Close/Short, Scene**	**Input 1 - {{Scene control}}**	**1byte**	**C,T**	**18.001 scene control**
1001	**Open/Long, Scene**	**Input 1 - {{Scene control}}**	**1byte**	**C,T**	**18.001 scene control**

8bit ( ) FXNNNNNN

F ‘0’ ‘1’

X 0

NNNNNN 0…63 k

0 1 2 … 63	1 2 3 … 64
128 129 130 … 191	1 2 3 … 64

1~64 0~63 k 1

0 k

1000	**String**	**Input 1 - {{Send String}}**	**14bytes**	**C,T**	**16.001 character string (ISO 8859-1)**
1000	**Close/Short, String**	**Input 1 - {{Send String}}**	**14bytes**	**C,T**	**16.001 character string (ISO 8859-1)**
1001	**Open/Long, String**	**Input 1 - {{Send String}}**	**14bytes**	**C,T**	**16.001 character string (ISO 8859-1)**

k / 1 2

k

1 “String” k 2 “Close/Open”

“Short/Long” k

1002	**Disable**	**Input 1 - {{...}}**	**1bit**	**C,W**	**1.003 enable**

/ ! k

6.4.“HVAC controller”

6.4.1.“Room temperature controller”

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
148	Controller 1 - RTC	Power on/off			1 bit	C	R	W	-	-	switch	Low
149	Controller 1 - RTC	External temperature sensor			2 bytes	C	-	W	T	U	temperature (°C)	Low
150	Controller 1 - RTC	Base setpoint adjustment			2 bytes	C	-	W	-	-	temperature (°C)	Low
151	Controller 1 - RTC	Setpoint offset			1 bit	C	-	W	-	-	step	Low
152	Controller 1 - RTC	Float offset value			2 bytes	C	-	W	-	-	temperature difference (K)	Low
153	Controller 1 - RTC	Setpoint offset reset			1 bit	C	-	W	-	-	reset	Low
154	Controller 1 - RTC	Heating/Cooling mode			1 bit	C	-	W	-	-	cooling/heating	Low
155	Controller 1 - RTC	Operation mode			1 byte	C	-	W	-	-	HVAC mode	Low

6.4.1 “Room temperature controller”

					DPT
148	**Power on/off**	**Controller 1 - {{RTC}}**	**1bit**	**C,W,R**	**1.001 switch**
k 1—— 0—— “Description (max 30char.)” “Controller 1 - ...” k k					

149	**External temperature sensor**	**Controller 1 - {{RTC}}**	**2byte s**	**C,W,T,U**	**9.001 temperature**
k -50~99.8°C					
150	**Current setpoint adjustment** **Base setpoint adjustment**	**Controller 1 - {{RTC}}**	**2byte s**	**C,W**	**9.001 temperature**
“Current setpoint adjustment” k k “Base setpoint adjustment” k k					
151	**Setpoint offset**	**Controller 1 - {{RTC}}**	**1bit**	**C,W**	**1.007 step**
k k 1 ˆ 0 ˆ					
152	**Float offset value**	**Controller 1 - {{RTC}}**	**2byte s**	**C,W**	**9.002 temperature difference**
k 2byte k					
153	**Setpoint offset reset**	**Controller 1 - {{RTC}}**	**1bit**	**C,W**	**1.015 reset**
k 1 k					

154	**Heating/Cooling mode**	**Controller 1 - {{RTC}}**	**1bit**	**C,W**	**1.100 cooling/heating**

k

1 ˚

0 ˚

155	**Operation mode**	**Controller 1 - {{RTC}}**	**1byte**	**C,W**	**20.102 HVAC mode**
156	**Comfort mode**	**Controller 1 - {{RTC}}**	**1bit**	**C,W**	**1.003 enable**
157	**Economy mode**	**Controller 1 - {{RTC}}**	**1bit**	**C,W**	**1.003 enable**
158	**Frost/Heat protection mode**	**Controller 1 - {{RTC}}**	**1bit**	**C,W**	**1.003 enable**
159	**Standby mode**	**Controller 1 - {{RTC}}**	**1bit**	**C,W**	**1.003 enable**

k

1byte 155 1- 2- 3- 4- k

1bit

156 ˚

157 ˚

158 ˚

159 ˚ □□ □□ □□□

“1” □ □□ □ □□□□□□ □□□□□□□

161	**Fan automatic operation**	**Controller 1 - {{RTC}}**	**1bit**	**C,W**	**1.003 enable**
k 1 ˚ 0 ˚					
162	**Window contact**	**Controller 1 - {{RTC}}**	**1bit**	**C,W,U**	**1.019 Window/door**
k 1 ˚ 0 ˚					
163	**Presence detector**	**Controller 1 - {{RTC}}**	**1bit**	**C,W,U**	**1.018 occupancy**
k 1 ˚ 0 ˚					
164	**Actual temperature, status**	**Controller 1 - {{RTC}}**	**2byte s**	**C,R,T**	**9.001 temperature**
k k					
165	**Base temperature setpoint, status**	**Controller 1 - {{RTC}}**	**2byte s**	**C,R,T**	**9.001 temperature**
k = 150 +					k
166	**Setpoint offset, status**	**Controller 1 - {{RTC}}**	**2byte s**	**C,R,T**	**9.002 temperature difference**
k					k

167	**Current temperature setpoint, status**	**Controller 1 - {{RTC}}**	**2bytes**	**C,R,T**	**9.001 temperature**
k					
168	**Heating/Cooling mode, status**	**Controller 1 - {{RTC}}**	**1bit**	**C,R,T**	**1.100 cooling/heating**
k					
169	**Operation mode, status**	**Controller 1 - {{RTC}}**	**1byte**	**C,R,T**	**20.102 HVAC mode**
170	**Comfort mode, status**	**Controller 1 - {{RTC}}**	**1bit**	**C,R,T**	**1.003 enable**
171	**Economy mode, status**	**Controller 1 - {{RTC}}**	**1bit**	**C,R,T**	**1.003 enable**
172	**Frost/Heat protection mode, status**	**Controller 1 - {{RTC}}**	**1bit**	**C,R,T**	**1.003 enable**
173	**Standby mode, status**	**Controller 1 - {{RTC}}**	**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	**Heating control value**	**Controller 1 - {{RTC}}**	**1bit** **1byte**	**C,R,T**	**1.001 Switch** **5.001 percentage**
175	**Cooling control value,**	**Controller 1 - {{RTC}}**	**1bit** **1byte**	**C,R,T**	**1.001 Switch** **5.001 percentage**
k				k	
176	**Fan speed**	**Controller 1 - {{RTC}}**	**1byte**	**C,T**	**5.001 percentage** **5.100 fan stage**
177	**Fan speed low**	**Controller 1 - {{RTC}}**	**1bit**	**C,T**	**1.001 switch**
178	**Fan speed medium**	**Controller 1 - {{RTC}}**	**1bit**	**C,T**	**1.001 switch**
179	**Fan speed high**	**Controller 1 - {{RTC}}**	**1bit**	**C,T**	**1.001 switch**
180	**Fan speed off**	**Controller 1 - {{RTC}}**	**1bit**	**C,T**	**1.001 switch**

k

1bit

177 ˚

178 ˚

179 ˚

180 ˚

“1” k 1bit-off

“0” GVS

1bit-off “1”

k

1byte k 176

k

6.4.1 “Room temperature controller”

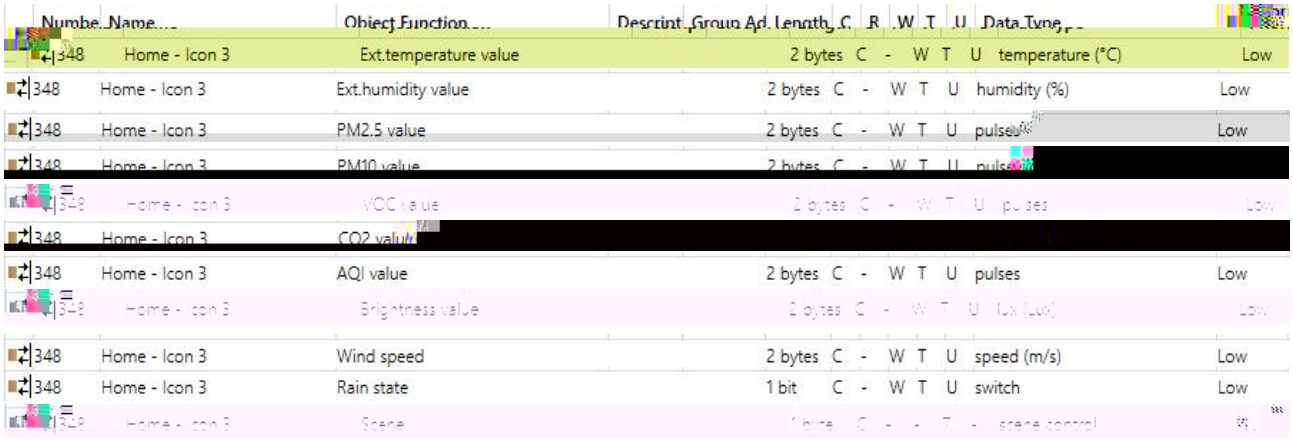
6.4.2.“Ventilation controller”

6.4.2 “Ventilation controller”

					DPT
148	**Fan automatic operation**	**Controller 1 - {{Ventilation}}**	**1bit**	**C,W**	**1.003 enable**
k 1 0					
149	**PM 2.5 value** **VOC value** **CO2 value**	**Controller 1 - {{Ventilation}}**	**2byte s**	**C,W,T,U**	**7.001 pulse** **9.030 concentration(ug/m3)** **9.008 parts/million(ppm)**
PM2.5/VOC/CO2 k ug/m^3 ppm k 0~999ug/m3 0~4000ppm					
PM2.5 PM2.5 k					
176	**Fan speed, status**	**Controller 1 - {{Ventilation}}**	**1byte**	**C,T**	**5.001 percentage** **5.100 fan stage**
k k					

6.4.2 “Ventilation controller”

6.5.“Home page”



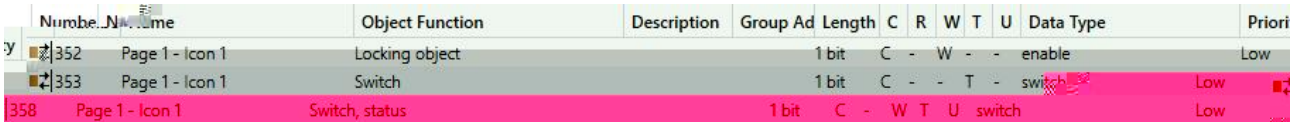
6.5 “Home page”

					DPT
348	**Ext.temperature value**	**Home - {{Icon 3}}**	**2bytes**	**C,W,T,U**	**9.001 temperature**
k -40...40℃ “Function description (max 15char.)” “Home - Icon x” k k					
348	**Ext.humidity value**	**Home - {{Icon 3}}**	**2bytes**	**C,W,T,U**	**9.007 humidity**
k 0~100%					
348	**PM2.5 value** **PM10 value** **VOC value**	**Home - {{Icon 3}}**	**2bytes**	**C,W,T,U**	**7.001 pulse** **9.030 concentration(ug/m3)**
PM2.5/PM10/VOC ug/m^3 k 0~999ug/m^3 k					

348	**CO2 value**	**Home - {{Icon 3}}**	**2bytes**	**C,W,T,U**	**7.001 pulse** **9.008 parts/million(ppm)**
CO2 ppm k 0~4000ppm k					
348	**AQI value**	**Home - {{Icon 3}}**	**2bytes**	**C,W,T,U**	**7.001 pulse**
AQI k 0~500					
348	**Brightness value**	**Home - {{Icon 3}}**	**2bytes**	**C,W,T,U**	**7.013 brightness(lux)** **9.004 lux**
lux k 0~65535lux k					
348	**Wind speed**	**Home - {{Icon 3}}**	**2bytes**	**C,W,T,U**	**9.005 speed** **9.028 wind speed**
k m/s km/h k					
348	**Rain state**	**Home - {{Icon 3}}**	**1bit**	**C,W,T,U**	**1.001 switch**
k 1 0					
348	**Scene**	**Home - {{Icon 3}}**	**2bytes**	**C,T** **C,W,T**	**18.001 scene control**
k 1 0 k k C,W,T C,T k					

6.6.“Function page setting”

6.6.1.

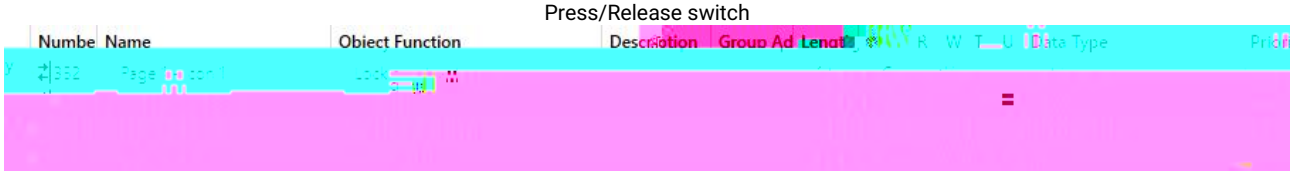


Number	Name	Object Function	Description	Group Ad	Length	C	R	W	T	U	Data Type	Priori
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low
358	Page 1 - Icon 1	Switch, status			1 bit	C	-	W	T	U	switch	Low

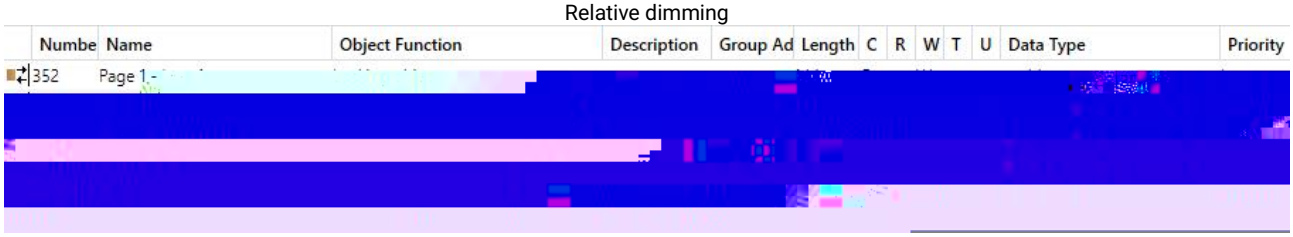
Switch

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low

Press/Release switch



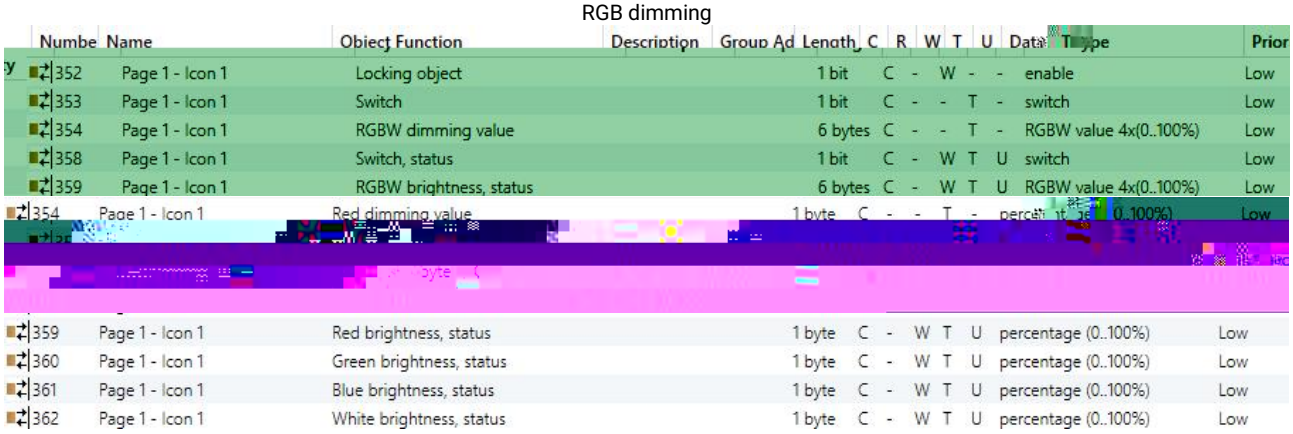
Relative dimming



Brightness dimming

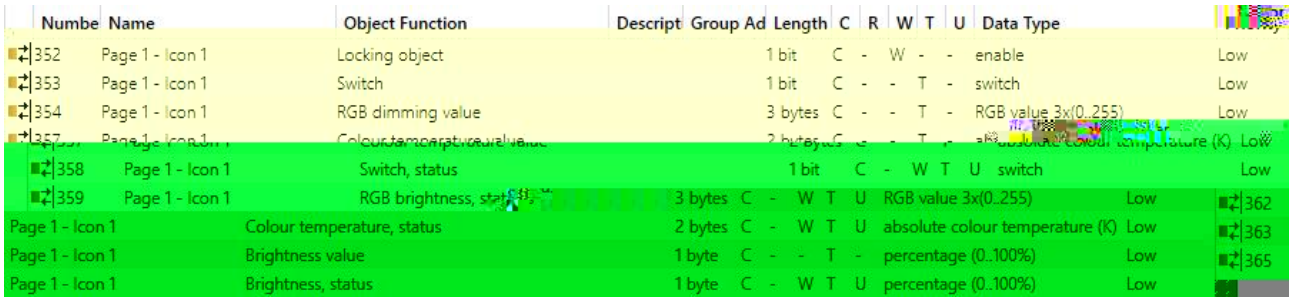
Number	Name	Object Function	Description	Group Ad	Length	C	R	W	T	U	Data Type	Priority
354	Page 1 - Icon 1	Red dimming value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
359	Page 1 - Icon 1	Red brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
360	Page 1 - Icon 1	Green brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
361	Page 1 - Icon 1	Blue brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

RGB dimming



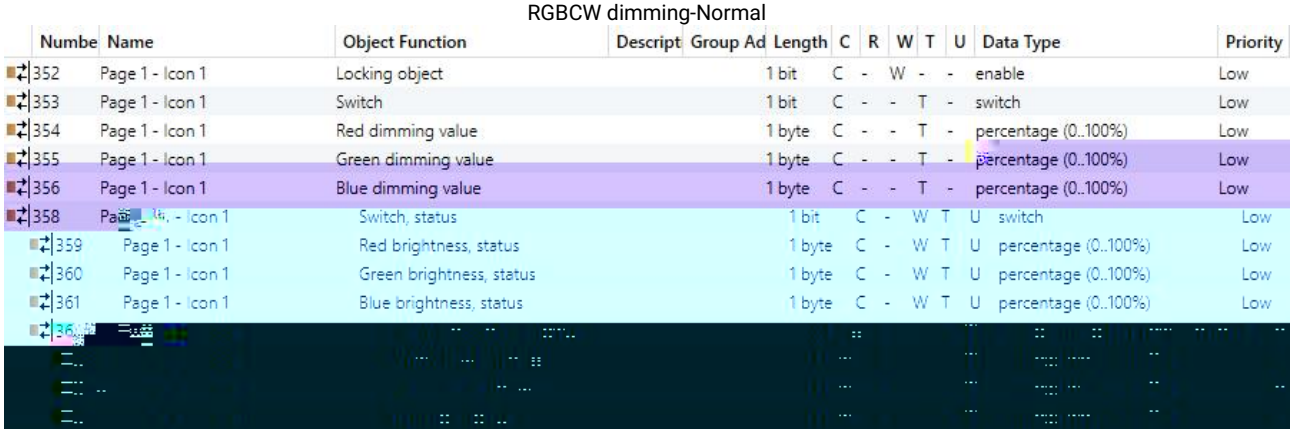
Number	Name	Object Function	Description	Group Ad	Length	C	R	W	T	U	Data Type	Prior
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low
354	Page 1 - Icon 1	RGBW dimming value			6 bytes	C	-	-	T	-	RGBW value 4x(0..100%)	Low
358	Page 1 - Icon 1	Switch, status			1 bit	C	-	W	T	U	switch	Low
359	Page 1 - Icon 1	RGBW brightness, status			6 bytes	C	-	W	T	U	RGBW value 4x(0..100%)	Low
354	Page 1 - Icon 1	Red dimming value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
359	Page 1 - Icon 1	Red brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
360	Page 1 - Icon 1	Green brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
361	Page 1 - Icon 1	Blue brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
362	Page 1 - Icon 1	White brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

RGBW dimming



Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low
354	Page 1 - Icon 1	RGB dimming value			3 bytes	C	-	-	T	-	RGB value 3x(0..255)	Low
358	Page 1 - Icon 1	Switch, status			1 bit	C	-	W	T	U	switch	Low
359	Page 1 - Icon 1	RGB brightness, status			3 bytes	C	-	W	T	U	RGB value 3x(0..255)	Low
Page 1 - Icon 1		Colour temperature, status			2 bytes	C	-	W	T	U	absolute colour temperature (K)	Low
Page 1 - Icon 1		Brightness value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
Page 1 - Icon 1		Brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

RGBCW dimming-Normal

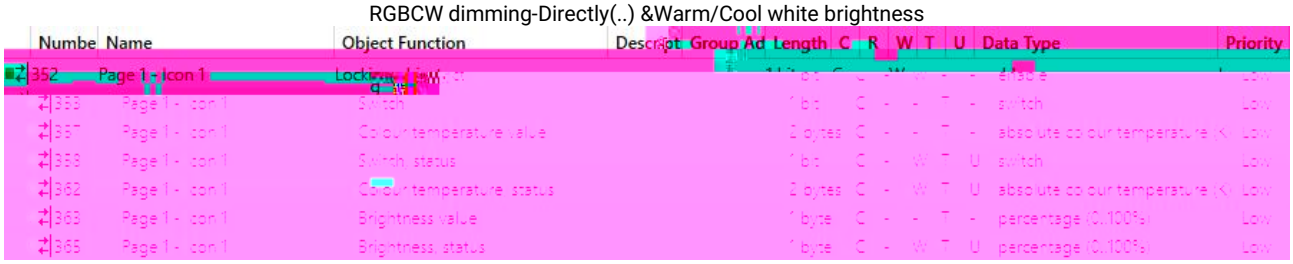


Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low
354	Page 1 - Icon 1	Red dimming value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
355	Page 1 - Icon 1	Green dimming value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
356	Page 1 - Icon 1	Blue dimming value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
358	Page 1 - Icon 1	Switch, status			1 bit	C	-	W	T	U	switch	Low
359	Page 1 - Icon 1	Red brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
360	Page 1 - Icon 1	Green brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
361	Page 1 - Icon 1	Blue brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

RGBCW dimming-Directly(..) &Brightness+Colour Temperature

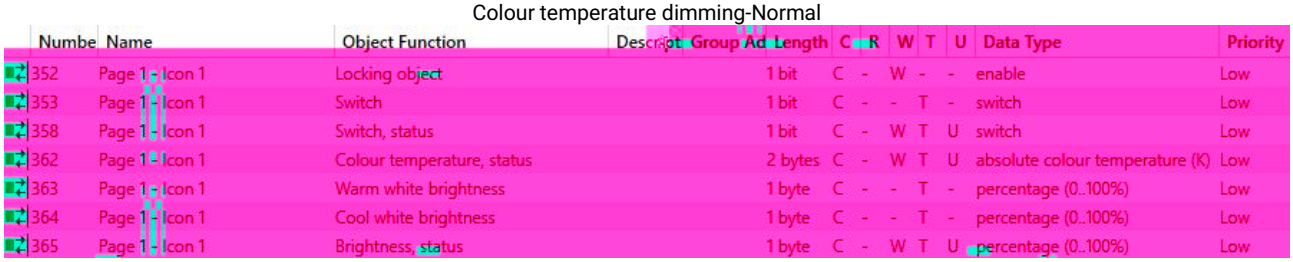
Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low
354	Page 1 - Icon 1	Red dimming value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
355	Page 1 - Icon 1	Green dimming value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
356	Page 1 - Icon 1	Blue dimming value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
358	Page 1 - Icon 1	Switch, status			1 bit	C	-	W	T	U	switch	Low
359	Page 1 - Icon 1	Red brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
360	Page 1 - Icon 1	Green brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
361	Page 1 - Icon 1	Blue brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
363	Page 1 - Icon 1	Warm white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
364	Page 1 - Icon 1	Cool white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
365	Page 1 - Icon 1	Warm white brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
366	Page 1 - Icon 1	Cool white brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

RGBCW dimming-Directly(..) &Warm/Cool white brightness



Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low
357	Page 1 - Icon 1	Colour temperature value			2 bytes	C	-	-	T	-	absolute colour temperature (K)	Low
358	Page 1 - Icon 1	Switch, status			1 bit	C	-	W	T	U	switch	Low
362	Page 1 - Icon 1	Colour temperature, status			2 bytes	C	-	W	T	U	absolute colour temperature (K)	Low
363	Page 1 - Icon 1	Brightness value			1 byte	C	-	-	T	-	percentage (0..100%)	Low
365	Page 1 - Icon 1	Brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

Colour temperature dimming-Normal



Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low
358	Page 1 - Icon 1	Switch, status			1 bit	C	-	W	T	U	switch	Low
362	Page 1 - Icon 1	Colour temperature, status			2 bytes	C	-	W	T	U	absolute colour temperature (K)	Low
363	Page 1 - Icon 1	Warm white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
364	Page 1 - Icon 1	Cool white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
365	Page 1 - Icon 1	Brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

Colour temperature dimming-Directly(..) &Brightness+Colour Temperature

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low
358	Page 1 - Icon 1	Switch, status			1 bit	C	-	W	T	U	switch	Low
363	Page 1 - Icon 1	Warm white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
364	Page 1 - Icon 1	Cool white brightness			1 byte	C	-	-	T	-	percentage (0..100%)	Low
365	Page 1 - Icon 1	Warm white brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
366	Page 1 - Icon 1	Cool white brightness, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

Colour temperature dimming-Directly(..) &Warm/Cool white brightness

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Open/Close			1 bit	C	-	-	T	-	open/close	Low
354	Page 1 - Icon 1	Stop			1 bit	C	-	-	T	-	step	Low

Curtain step/move

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Up/Down			1 bit	C	-	-	T	-	up/down	Low
354	Page 1 - Icon 1	Stop			1 bit	C	-	-	T	-	step	Low

Roller blind step/move

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Open/Close			1 bit	C	-	-	T	-	open/close	Low
354	Page 1 - Icon 1	Stop			1 bit	C	-	-	T	-	step	Low
355	Page 1 - Icon 1	Curtain position			1 byte	C	-	-	T	-	percentage (0..100%)	Low
358	Page 1 - Icon 1	Curtain position, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

Curtain position

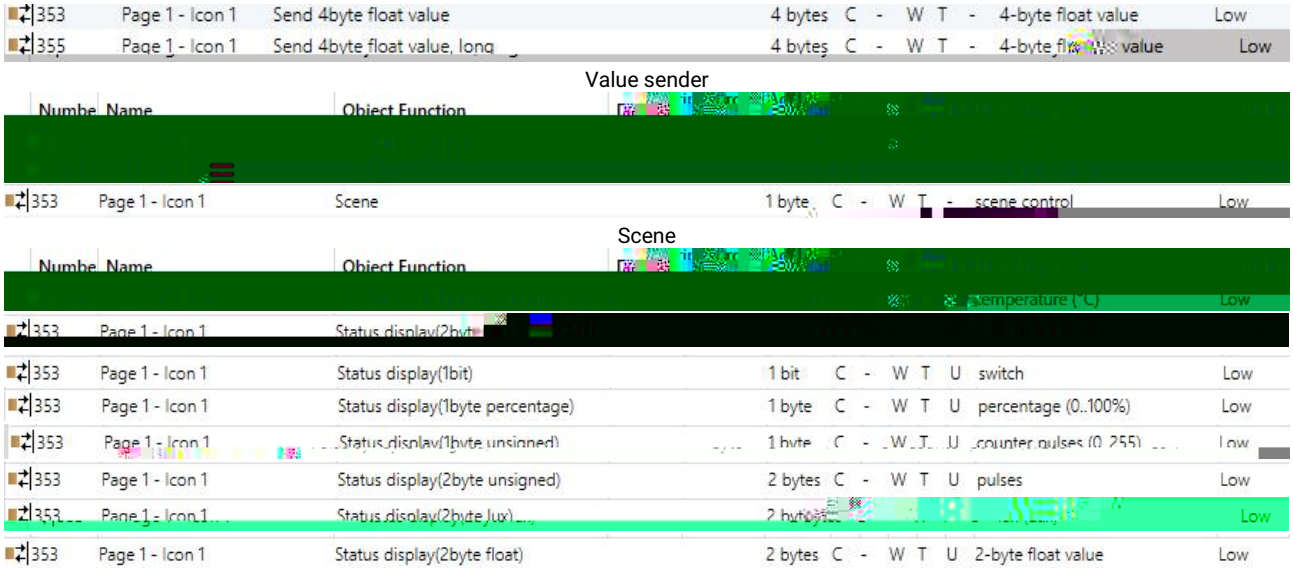
Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Up/Down			1 bit	C	-	-	T	-	up/down	Low
354	Page 1 - Icon 1	Stop			1 bit	C	-	-	T	-	step	Low
355	Page 1 - Icon 1	Blind position			1 byte	C	-	-	T	-	percentage (0..100%)	Low
358	Page 1 - Icon 1	Blind position, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

Roller blind position

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priori
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Up/Down			1 bit	C	-	-	T	-	up/down	Low
354	Page 1 - Icon 1	Stop/Slat adj.			1 bit	C	-	-	T	-	step	Low
355	Page 1 - Icon 1	Blind position			1 byte	C	-	-	T	-	percentage (0..100%)	Low
356	Page 1 - Icon 1	Slat position			1 byte	C	-	-	T	-	percentage (0..100%)	Low
358	Page 1 - Icon 1	Blind position, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
359	Page 1 - Icon 1	Slat position, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

Venetian blind position and slat

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Send 1bit value			1 bit	C	-	W	T	-	switch	Low
355	Page 1 - Icon 1	Send 1bit value, long			1 bit	C	-	W	T	-	switch	Low
353	Page 1 - Icon 1	Send 2bit value			2 bit	C	-	W	T	-	switch control	Low
355	Page 1 - Icon 1	Send 2bit value, long			2 bit	C	-	W	T	-	switch control	Low
353	Page 1 - Icon 1	Send 4bit value			4 bit	C	-	W	T	-	dimming control	Low
355	Page 1 - Icon 1	Send 4bit value, long			4 bit	C	-	W	T	-	dimming control	Low
353	Page 1 - Icon 1	Send 1byte value			1 byte	C	-	W	T	-	counter pulses (0..255)	Low
355	Page 1 - Icon 1	Send 1byte value, long			1 byte	C	-	W	T	-	counter pulses (0..255)	Low
353	Page 1 - Icon 1	Send 2byte value			2 bytes	C	-	W	T	-	pulses	Low
355	Page 1 - Icon 1	Send 2byte value, long			2 bytes	C	-	W	T	-	pulses	Low
353	Page 1 - Icon 1	Send 2byte float value			2 bytes	C	-	W	T	-	2-byte float value	Low
355	Page 1 - Icon 1	Send 2byte float value, long			2 bytes	C	-	W	T	-	2-byte float value	Low
353	Page 1 - Icon 1	Send 4byte value			4 bytes	C	-	W	T	-	counter pulses (unsigned)	Low
355	Page 1 - Icon 1	Send 4byte value, long			4 bytes	C	-	W	T	-	counter pulses (unsigned)	Low



Status display

6.6.1

k

					DPT
352	**Locking object**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.003 enable**
/ k k 0 1 “Function description (max 10char.)” “Page x - Icon y” k k					
353	**Switch**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.001 switch**
! / ! / ! k 1 k / / k 0 1					

358	**Switch, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W,T,U**	**1.001 switch**
! / ! k / ! k 0 1					
354	**Relative dimming**	**Page 1 - {{Icon 1}}**	**4bit**	**C,T**	**3.007 dimming**
k 0~100% / k					
355	**Brightness dimming**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
360	**Brightness, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
k 0~100% Obj.355 k Obj.360 k 4bit “Relative dimming” k					
354	**RGB dimming value**	**Page 1 - {{Icon 1}}**	**3bytes**	**C,T**	**232.600 RGB value 3x(0..255)**
359	**RGB brightness, status**	**Page 1 - {{Icon 1}}**	**3bytes**	**C,W,T,U**	**232.600 RGB value 3x(0..255)**

RGB 1x3byte k

Obj.354 RGB k

Obj.359 RGB k

3 RGB U8 U8 U8

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

R: G: B: k

354	**RGBW dimming value**	**Page 1 - {{Icon 1}}**	**6byte s**	**C,T**	**251.600 DPT_Colour_RGBW**
359	**RGBW brightness, status**	**Page 1 - {{Icon 1}}**	**6byte s**	**C,W,T,U**	**251.600 DPT_Colour_RGBW**

RGBW 1x6byte k

Obj.354 RGBW k

Obj.359 RGBW

6 RGBW U8 U8 U8 U8 R8 R4 B4

6_{MSB}	5	4	3	2	1_{LSB}
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

354	**Red dimming value**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
359	**Red brightness, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

RGB 3x1byte RGBW 4x1byte

k 0…100%

Obj.354 R ( ) k

Obj.359 R ( ) k

355	**Green dimming value**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
360	**Green brightness, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

RGB 3x1byte RGBW 4x1byte

k 0…100%

Obj.355 G( ) k

Obj.3G

357	**White dimming value**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
362	**White brightness, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
RGBW 4x1byte k 0…100% Obj.357 W( ) k Obj.362 W( ) k					
357	**Colour temperature value**	**Page 1 - {{Icon 1}}**	**2bytes**	**C,T**	**7.600 absolute colour temperature**
362	**Colour temperature, status**	**Page 1 - {{Icon 1}}**	**2bytes**	**C,W,T,U**	**7.600 absolute colour temperature**
/ k 2000...7000 K Obj.357 k Obj.362 & + k					
363	**Brightness value**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
365	**Brightness, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
/ k 0…100% Obj.363 k Obj.365 & + k					
363	**Warm white brightness**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
365	**Warm white brightness, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
k 0…100% Obj.363 k Obj.365 & / k					

364	**Cool white brightness**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
366	**Cool white brightness, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

k 0...100%

Obj.364 k

Obj.366 & /

k

353	**Open/Close**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.009 open/close**
354	**Stop**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.007 step**

Curtain step/move k ! ! k

Obj.353 / k

1

0

Obj.354 k

1

353	**Up/Down**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.008 up/down**
354	**Stop**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.007 step**

Roller blind step/move k ! ! k

Obj.353 / k

1——

0——

Obj.354 k

353	**Open/Close**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.009 open/close**
354	**Stop**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.007 step**
355	**Curtain position**	**Page 1 - {{Icon 1}}**	**1byte s**	**C,T**	**5.001 percentage(0..100%)**
358	**Curtain position, status**	**Page 1 - {{Icon 1}}**	**1byte s**	**C,W,T,U**	**5.001 percentage(0..100%)**

Curtain position k ! ! ! k

Obj.353 /

k

1——

0——

Obj.354 k

1——

Obj.355 k 0…100%

Obj.358 k 0…100%

353	**Up/Down**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.008 up/down**
354	**Stop**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.007 step**
355	**Blind position**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
358	**Blind position, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

Roller blind position k ! ! ! k

Obj.353 / k

1——

0——

Obj.355 k 0…100%

Obj.358 k 0…100%

Obj.354 k

353 Up/Dow

353	**Scene**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T** **C,W,T**	**18.001 scene control**
k 1 0 k k C,W,T C,T k					
353	**Status display(1bit)** **Status display(1byte percentage)** **Status display(1byte unsigned)** **Status display(2byte unsigned)** **Status display(2byte temperature)** **Status display(2byte humidity)** **Status display(2byte lux)** **Status display(2byte float)**	**Page 1 - {{Icon 1}}**	**1bit** **1byte** **2byte** **s**	**C,W,T,U**	**1.001 switch** **5.001 percentage(0..100%)** **5.010 counter pulses** **7.001 pulses** **9.001 temperature** **9.007 humidity** **9.004 lux(lux)** **9*2byte float value**
k k 1bit ! 1byte ! 1byte ! 2byte ! 2byte k 1bit ! ! ! k k					

6.6.1

6.6.2.

Numbe	Na	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
352	Page 1 - Icon 1	Locking object			1 bit	C	-	W	-	-	enable	Low
353	Page 1 - Icon 1	Power on/off			1 bit	C	-	-	T	-	switch	Low
354	Page 1 - Icon 1	Current setpoint adjustment			2 bytes	C	-	-	T	-	temperature (°C)	Low
356	Page 1 - Icon 1	Fan speed			1 byte	C	-	-	T	-	percentage (0..100%)	Low
357	Page 1 - Icon 1	Vanes swing (1-swing,0-stop)			1 bit	C	-	-	T	-	start/stop	Low
359	Page 1 - Icon 1	Control mode			1 byte	C	-	-	T	-	HVAC control mode	Low
360	Page 1 - Icon 1	Power on/off, status			1 bit	C	-	W	T	U	switch	Low
361	Page 1 - Icon 1	External temperature sensor			2 bytes	C	-	W	T	U	temperature (°C)	Low
362	Page 1 - Icon 1	Current temperature [illegible]int, status			2 bytes	C	-	W	T	U	temperature (°C)	Low
363	Page 1 - Icon 1	Fan speed, status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
364	Page 1 - Icon 1	Vanes swing (1-swing,0-stop), status			1 bit	C	-	W	T	U	switch	Low
366	Page 1 - Icon 1	Control mode, status			1 byte	C	-	W	T	U	HVAC control mode	Low
367	Page 1 - Icon 1	Timer			1 bit	C	-	W	-	-	enable	Low
368	Page 1 - Icon 1	Scene			1 byte	C	-	W	-	-	scene control	Low

6.6.2

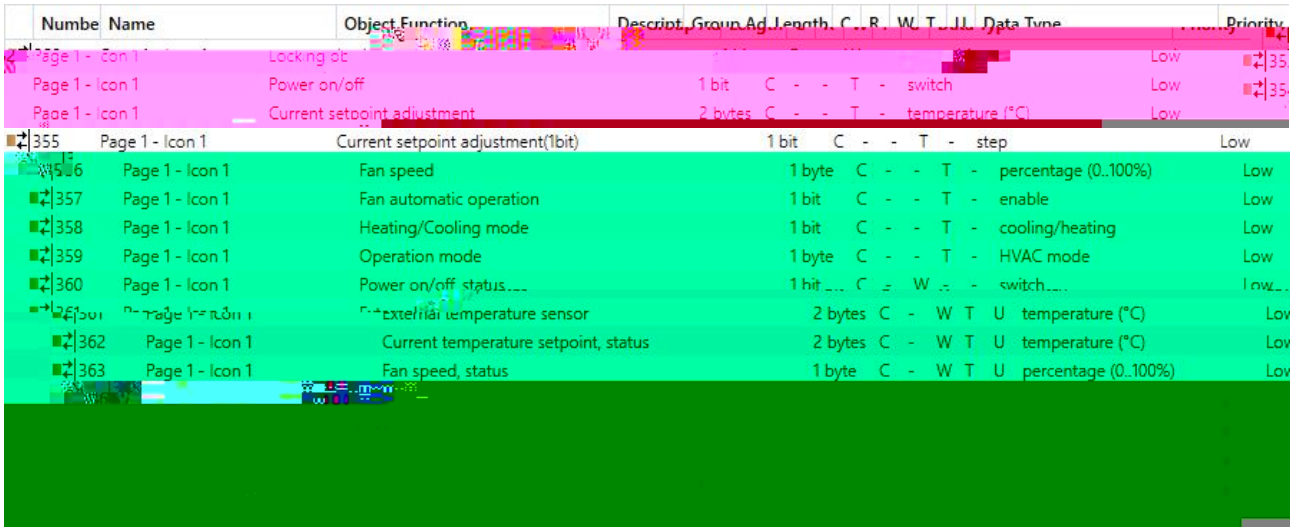
					DPT
352	**Locking object**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.003 enable**
/ k 0 1					
353	**Power on/off**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.001 switch**
KNX k ! ! ! ! k					
354	**Current setpoint adjustment**	**Page 1 - {{Icon 1}}**	**1byte** **2byte** **s**	**C,T**	**5.010 counter pulses** **9.001 temperature**
k					
356	**Fan speed**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**5.001 percentage** **5.100 fan stage**
k k					

357	**Vanes swing (1-swing,0-stop)**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.010 start/stop**
k k 1 ˚ 0 ˚					
359	**Control mode**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**20.105 HVAC control mode**
k 0- 1- 3- 9- 14- k					
360	**Power on/off, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W,T,U**	**1.001 switch**
k 1 ˚ 0 ˚					
361	**External temperature sensor**	**Page 1 - {{Icon 1}}**	**2bytes**	**C,W,T,U**	**9.001 temperature**
k					
362	**Current temperature setpoint, status**	**Page 1 - {{Icon 1}}**	**1byte 2bytes**	**C,W,T,U**	**5.010 counter pulses 9.001 temperature**
k					
363	**Fan speed, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage 5.100 fan stage**
k k					
364	**Vanes swing (1-swing,0-stop), status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W,T,U**	**1.010 start/stop**

		k		k	
1 ˚					
0 ˚					
366	**Control mode, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**20.105 HVAC control mode**
				k	
0- 1- 3- 9- 14- k					
367	**Timer**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.003 enable**
		k	/	k	
368	**Scene**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W**	**18.001 scene control**
		k	/	k	

6.6.2

6.6.3.



6.6.3

					DPT
352	**Locking object**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.003 enable**
/ k 0 1					
353	**Power on/off**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.001 switch**
KNX k ! ! ! k					
354	**Current setpoint adjustment**	**Page 1 - {{Icon 1}}**	**2bytes**	**C,T**	**9.001 temperature**
2byte 1bit& k 2byte k					
355	**Current setpoint adjustment(1bit)**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.007 step**
1bit k 1bit k					
356	**Fan speed**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**5.001 percentage** **5.100 fan stage**
k k					

357	**Fan automatic operation**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.003 enable**

k

1

0

358	**Heating/Cooling mode**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.100 cooling/heating**

k

1——

0——

359	**Operation mode**	**Page 1 - {{Icon 1}}**	**1byte**	**C,T**	**20.102 HVAC mode**

k

1- 2- 3- 4-

k

360	**Power on/off, status**	**Page 1 - {{Icon 1}}**	[redacted]	**C,W**	**1.001 switch**

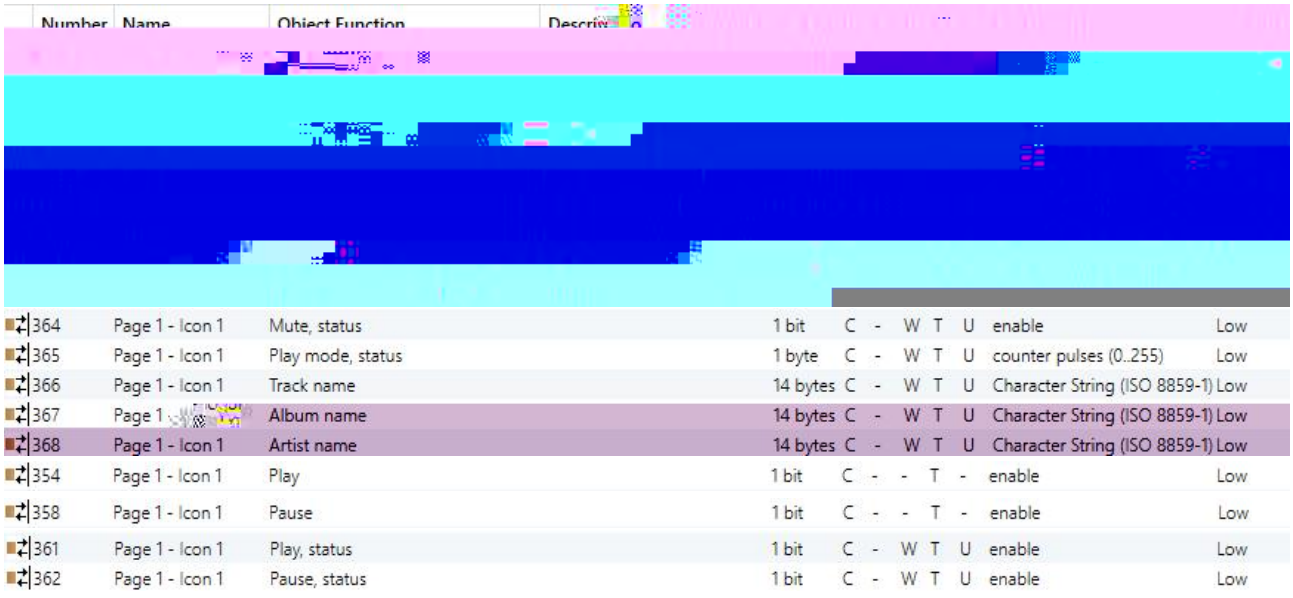
363	**Fan speed, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage** **5.100 fan stage**
			k		k
364	**Fan automatic operation, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W,T,U**	**1.003 enable**
			k		
			1——		
			0——		
365	**Heating/Cooling mode, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W,T,U**	**1.100 cooling/heating**
				k	
			1		
			0		
366	**Operation mode, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**20.102 HVAC mode**
			k		
1- 2- 3- 4-			k		
367	**Timer**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.003 enable**
		k	/	k	
368	**Scene**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W**	**18.001 scene control**
		k	/	k	

357	**Fan automatic operation**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.003 enable**
				k	
	1				
	0				
358	**Heat recovery**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.003 enable**
				k	
	1––				
	0––				
360	**Power on/off, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.001 switch**
				k	
	1				
	0				
361	**Filter timer counter change**	**Page 1 - {{Icon 1}}**	**2bytes**	**C,W**	**7.007 time(h)**
			k		
363	**Fan speed, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W**	**5.001 percentage** **5.100 fan stage**
				k	
	k				
364	**Fan automatic operation, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.003 enable**
				k	
	1––				
	0––				

365	**Heat recovery, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.003 enable**
					k 1 0
367	**Filter timer reset**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.015 reset**
					k 1
368	**Scene**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W**	**18.001 scene control**
					k / k

6.6.4

6.6.5.



6.6.5

					DPT
352	**Locking object**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.003 enable**
/ k 0 ˚ 1 ˚					
353	**Power on/off**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.001 switch**
k 1 ˚ 0 ˚ ! ! ! ! ! k k					
354	**Play=1/Pause=0**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.010 start/stop**
354	**Play**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.003 enable**
358	**Pause**	**Page 1 - {{Icon 1}}**	**1bit**	**C,T**	**1.003 enable**
/ k 1—— 0—— 1 k					

360	**Power on/off, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W**	**1.001 switch**
k 1—— 0——					
361	**Play=1/Pause=0, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W,T,U**	**1.010 start/stop**
361	**Play, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W,T,U**	**1.003 enable**
362	**Pause, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W,T,U**	**1.003 enable**
/ k 1 0 1 k					
363	**Volume, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.001 percentage** **5.004 percentage**
1byte k 0..100 / 0..255					
364	**Mute, status**	**Page 1 - {{Icon 1}}**	**1bit**	**C,W,T,U**	**1.003 enable**
k					
365	**Play mode, status**	**Page 1 - {{Icon 1}}**	**1byte**	**C,W,T,U**	**5.010 counter pulses**
k k					
366	**Track name**	**Page 1 - {{Icon 1}}**	**14bytes**	**C,W,T,U**	**16.001 character string (ISO 8859-1)**
k					

367	**Album name**	**Page 1 - {{Icon 1}}**	**14bytes**	**C,W,T,U**	**16.001 character string (ISO 8859-1)**
k					
368	**Artist name**	**Page 1 - {{Icon 1}}**	**14bytes**	**C,W,T,U**	**16.001 character string (ISO 8859-1)**
k					

6.6.5

6.7.“Button”

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
964	Btn 1 - Switching	Switch			1 bit	C	-	W	T	U	switch	Low
964	Btn 1 - Switching	Press. Switch			1 bit	C	-	W	T	U	switch	Low
964		Short, Switch			1 bit	C	-	W	T	U	switch	Low
965	Btn 1 - Switching	Long, Switch			1 bit	C	-	W	T	U	switch	Low
968	Btn 1 - Switching	Disable			1 bit	C	-	W	-	-	enable	Low
969	Btn 1 - Switching	LED status			1 bit	C	-	W	T	U	switch	Low

Switching

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
964	Btn 1 - Dimming	Short, Switch			1 bit	C	-	W	T	U	switch	Low
965	Btn 1 - Dimming	Long, Dimming			4 bit	C	-	W	T	-	dimming control	Low
968	Btn 1 - Dimming	Disable			1 bit	C	-	W	-	-	enable	Low
969	Btn 1 - Dimming	LED status			1 bit	C	-	W	T	U	switch	Low

Dimming

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priori
964	Btn 1 - Value sender	Short, 1bit value			1 bit	C	-	-	T	-	switch	Low
965	Btn 1 - Value sender	Long, 1bit value			1 bit	C	-	-	T	-	switch	Low
964	Btn 1 - Value sender	Short, 2bit value			2 bit	C	-	-	T	-		Low
965	Btn 1 - Value sender	Long, 2bit value			2 bit	C	-	-	T	-		
964	Btn 1 - Value sender	Short, 4bit value			4 bit	C	-	-	T	-	dimming control	Low
965	Btn 1 - Value sender	Long, 4bit value			4 bit	C	-	-	T	-	dimming control	Low
964	Btn 1 - Value sender	Short, 1byte value			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
965	Btn 1 - Value sender	Long, 1byte value			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
964	Btn 1 - Value sender	Short, 2byte value			2 bytes	C	-	-	T	-	pulses	Low
965	Btn 1 - Value sender	Long, 2byte value			2 bytes	C	-	-	T	-	pulses	Low
968	Btn 1 - Value sender	Disable			1 bit	C	-	W	-	-	enable	Low
969	Btn 1 - Value sender	LED status			1 bit	C	-	W	T	U	switch	Low

Value sender

Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority

964	Btn 1 - Scene	Short, Scene			1 byte	C	-	-	T	-	scene control			Low
965	Btn 1 - Scene	Long, Scene			1 byte	C	-	-	T	-	scene control			Low
968	Btn 1 - Scene	Disable			1 bit	C	-	W	-	-	enable			Low
969	Btn 1 - Scene	LED status			1 bit	C	-	W	-	U	switch			Low

Scene

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
964	Btn 1 - Blind	Up/Down, Blind			1 bit	C	-	W	T	-	up/down	Low
965	Btn 1 - Blind	Stop/Adjust, Blind			1 bit	C	-	W	T	-	step	Low
968	Btn 1 - Blind	Disable			1 bit	C	-	W	-	-	enable	
969	Btn 1 - Blind	LED status			1 bit	C	-	W	T	U	switch	

Blind

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
964	Btn 1 - Shift register	Register value			1 byte	C	-	W	T	-	counter pulses (0..255)	Low
968	Btn 1 - Shift register	Disable			1 bit	C	-	W	-	-	enable	Low
969	Btn 1 - Shift register	LED status			1 bit	C	-	W	T	U	switch	Low

Shift register

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
964	Btn 1 - Multiple operation	Object1-On/Off			1 bit	C	-	W	T	-	switch	Low
964	Btn 1 - Multiple operation	Object1-Up/Down			1 bit	C	-	W	T	-	up/down	Low
964	Btn 1 - Multiple operation	Object1-SceneControl			1 byte	C	-	-	T	-	scene control	Low
964	Btn 1 - Multiple operation	Object1-Unsigned value			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
968	Btn 1 - Multiple operation	Disable			1 bit	C	-	W	-	-	enable	Low
969	Btn 1 - Multiple operation	LED status			1 bit	C	-	W	T	U	switch	Low

Multiple operation

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
964	Btn 1 - Delay mode	Short, Delay mode			1 bit	C	-	-	T	-	switch	Low
965	Btn 1 - Delay mode	Long, Delay mode			1 bit	C	-	-	T	-	switch	Low
964	Btn 1 - Delay mode	Short, Delay mode			4 bit	C	-	-	T	-	dimming control	Low
965	Btn 1 - Delay mode	Long, Delay mode			4 bit	C	-	-	T	-	dimming control	Low
964	Btn 1 - Delay mode	Short, Delay mode			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
965	Btn 1 - Delay mode	Long, Delay mode			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
968	Btn 1 - Delay mode	Disable			1 bit	C	-	W	-	-	enable	Low
969	Btn 1 - Delay mode	LED status			1 bit	C	-	W	T	U	switch	Low

Delay mode

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
964	Btn 1 - RTC mode	Operation mode			1 byte	C	-	-	T	-	HVAC mode	Low
964	Btn 1 - RTC mode	Comfort mode			1 bit	C	-	-	T	-	enable	Low
965	Btn 1 - RTC mode	Economy mode			1 bit	C	-	-	T	-	enable	Low
966	Btn 1 - RTC mode	Frost/Heat protection mode			1 bit	C	-	-	T	-	enable	Low
967	Btn 1 - RTC mode	Standby mode			1 bit	C	-	-	T	-	enable	Low
968	Btn 1 - RTC mode	Disable			1 bit	C	-	W	-	-	enable	Low
969	Btn 1 - RTC mode	LED status			1 bit	C	-	W	T	U	switch	Low

RTC operation mode

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
964	Btn 1 - String	String			14 bytes	C	-	-	T	-	Character String (ISO 8859-1)	Low
968	Btn 1 - String	Disable			1 bit	C	-	W	-	-	enable	Low
969	Btn 1 - String	LED status			1 bit	C	-	W	T	U	switch	Low

String(14bytes)

6.7 “Button”

					DPT
964	**Switch**	**Btn 1 - {{Switching}}**	**1bit**	**C,W,T,U**	**1.001 switch**
964	**Press/Short, Switch**	**Btn 1 - {{Switching}}**			

964	**Short, 1bit value** **Short, 2bit value** **Short, 4bit value** **Short, 1byte value** **Short, 2byte value**	**Btn 1 - {{Value sender}}**	**1bit** **2bit** **4bit** **1byte** **2bytes**	**C,T**	**1.001 switch** **2.001 switch control** **3.007 dimming** **5.010 counter pulses** **7.001 pulses**
965	**Long, 1bit value** **Long, 2bit value** **Long, 4bit value** **Long, 1byte value** **Long, 2byte value**	**Btn 1 - {{Value sender}}**	**1bit** **2bit** **4bit** **1byte** **2bytes**	**C,T**	**1.001 switch** **2.001 switch control** **3.007 dimming** **5.010 counter pulses** **7.001 pulses**
k k					
964	**Scene**	**Btn 1 - {{Scene}}**	**1byte**	**C,T**	**18.001 scene control**
964	**Short, Scene**	**Btn 1 - {{Scene}}**	**1byte**	**C,T**	**18.001 scene control**
965	**Long, Scene**	**Btn 1 - {{Scene}}**	**1byte**	**C,T**	**18.001 scene control**
8bit k 1 2 k 1 “Scene” k 2 “Short/Long” k 8bit k					

8bit ( ) FXNNNNNN

F ‘0’ ‘1’

X 0

NNNNNN 0…63 k

0 1 2 … 63	1 2 3 … 64
128 129 130 … 191	1 2 3 … 64

1~64 0~63 k 1

0 k

964	**Up/Down, Blind**	**Btn 1 - {{Blind}}**	**1bit**	**C,W,T**	**1.008 up/down**
965	**Stop/Adjust, Blind**	**Btn 1 - {{Blind}}**	**1bit**	**C,W,T**	**1.007 step**

! ! k

Obj.964 / k

1

0

Obj.965 k

1——

964	**Register value**	**Btn 1 - {{Shift register}}**	**1byte**	**C,W,T**	**5.010 counter pulses**

k

964	Object1-On/Off Object1-Up/Down Object1-SceneControl Object1-Percentage Object1-Unsigned value	Btn 1 - {{Multiple operation}}	1bit 1bit 1byte 1byte 1byte	C,W,T C,W,T C,T C,T C,T	1.001 switch 1.008 up/down 18.001 scene control 5.001 percentage(0..100%) 5.010 counter pulses
4 k					4 k
964	Short, Delay mode	Btn 1 - {{Delay mode}}	1bit 4bit 1byte	C,T	1.001 switch 3.007 dimming 5.010 counter pulses
965	Long, Delay mode	Btn 1 - {{Delay mode}}	1bit 4bit 1byte	C,T	1.001 switch 3.007 dimming 5.010 counter pulses
k				k	
964	Operation mode	Btn 1 - {{RTC mode}}	1byte	C,T	20.102 HVAC mode
964	Comfort mode	Btn 1 - {{RTC mode}}	1bit	C,T	1.003 enable
965	Economy mode	Btn 1 - {{RTC mode}}	1bit	C,T	1.003 enable
966	Frost/Heat protection mode	Btn 1 - {{RTC mode}}	1bit	C,T	1.003 enable
967	Standby mode	Btn 1 - {{RTC mode}}	1bit	C,T	1.003 enable

k

1byte 964 1- 2- 3- 4- k

1bit

964 ˚

965 ˚

966 ˚

967 ˚

“1” k 1bit !

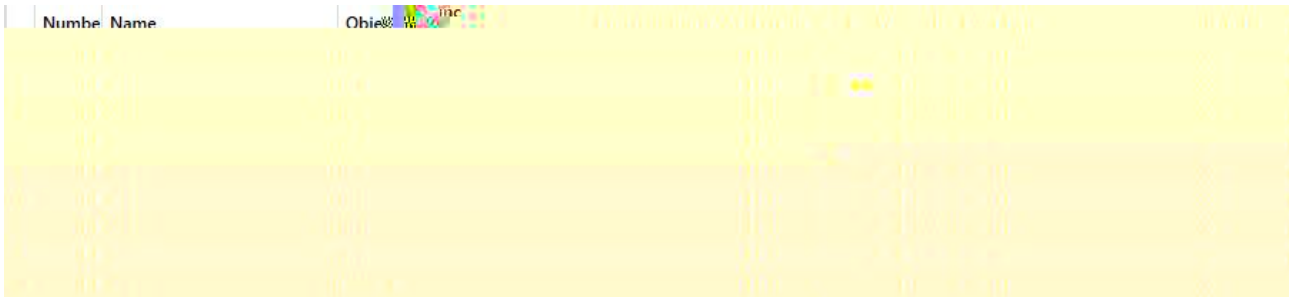
0 k 1bit 1 k

964	**String**	**Btn 1 - {{String}}**	**14byte s**	**C,T**	**16.001 character string (ISO 8859-1)**
k					
968	**Disable**	**Btn 1 - {{...}}**	**1bit**	**C,W**	**1.003 enable**
/				k	
969	**LED status**	**Btn 1 - {{...}}**	**1bit 1byte**	**C,W,T,U**	**1.001 switch 5.010 counter pulses**
LED k k					

6.7 “Button”

6.8.“Logic”

6.8.1.“AND/OR/XOR”

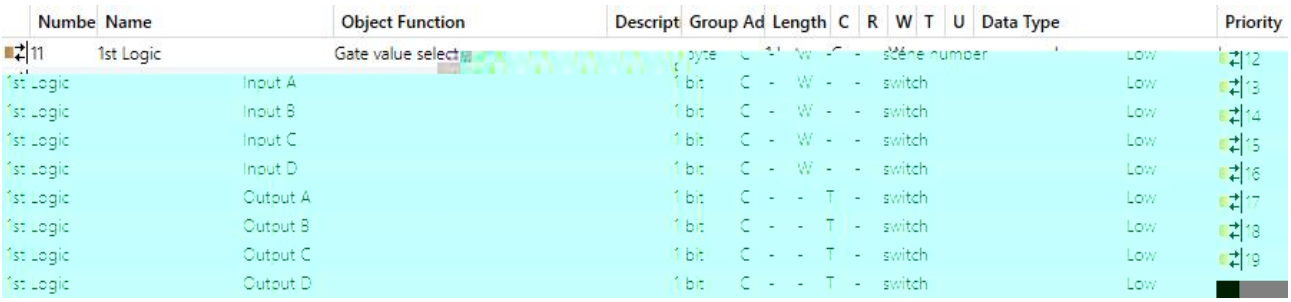


6.8.1 “AND/OR/XOR”

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

6.8.1 “AND/OR/XOR”

6.8.2.“Gate forwarding”



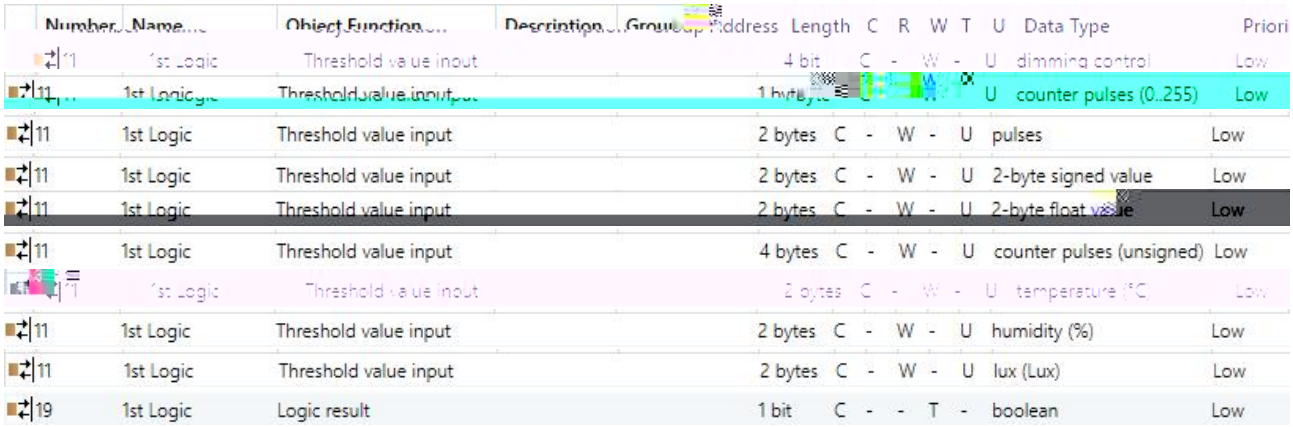
Numbe	Name	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic	Gate value select			byte	C	-	W	-	-	scene number	Low
	1st Logic	Input A			1 bit	C	-	W	-	-	switch	Low
	1st Logic	Input B			1 bit	C	-	W	-	-	switch	Low
	1st Logic	Input C			1 bit	C	-	W	-	-	switch	Low
	1st Logic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

6.8.2 “Gate forwarding”

					DPT
11	**Gate value select**	**{{1st Logic}}**	**1byte**	**C,W**	**17.001 scene number**
k					
12/.../15	**Input x**	**{{1st Logic}}**	**1bit** **4bit** **1byte**	**C,W**	**1.001 switch** **3.007 dimming control** **5.010 counter pulses(0..255)**
Input x k					
16/../19	**Output x**	**{{1st Logic}}**	**1bit** **4bit** **1byte**	**C,T**	**1.001 switch** **3.007 dimming control** **5.010 counter pulses(0..255)**
k k					

6.8.2 “Gate forwarding”

6.8.3.“Threshold comparator”



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

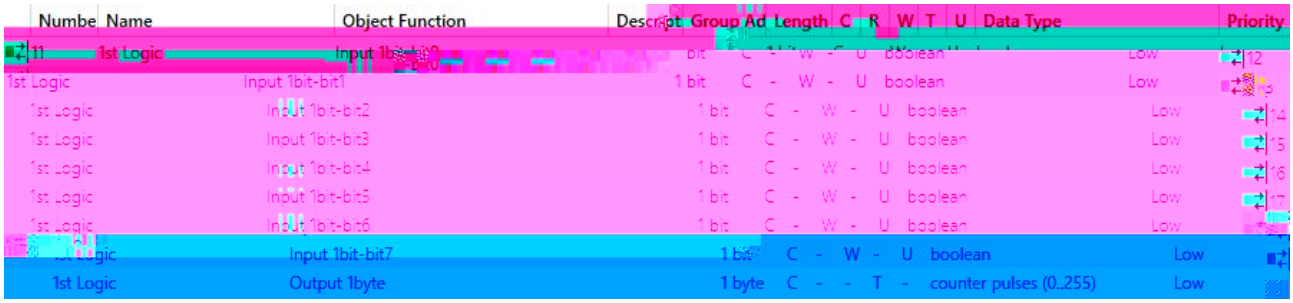
6.8.3 “Threshold comparator”

					DPT
11	**Threshold value input**	**{{1st Logic}}**	**4bit** **1byte** **2bytes** **4bytes**	**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**
k					
19	**Logic result**	**{{1st Logic}}**	**1bit**	**C,T**	**1.002 boolean**
k					k

6.8.3 “Threshold comparator”

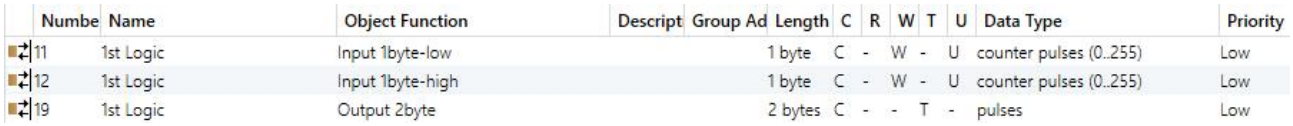
6.8.4.“Format convert”

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



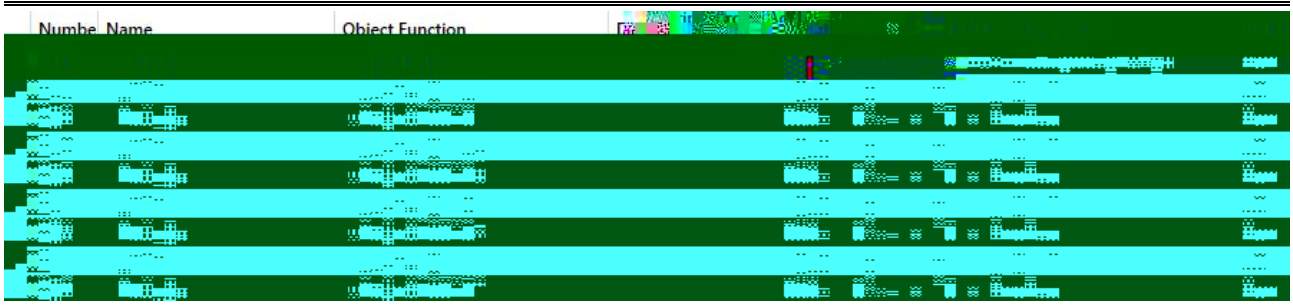
“8x1bit --> 1x1byte” : 8 1bit 1byte Input bit2=1, bit1=1, bit0=1, 0--> Output 1byte=7

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

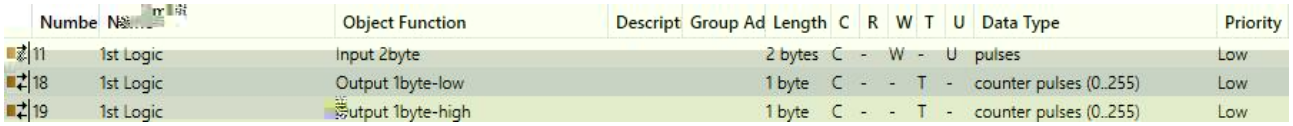


“2x1byte --> 1x2byte” 2 1byte 2byte Input 1byte-low = 255 ($FF), Input 1byte-high = 100 ($64) --> Output 2byte = 25855 ($64 FF)

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



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



Numbe	Name	Object Function	Descript	Group Ad	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)

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

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

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

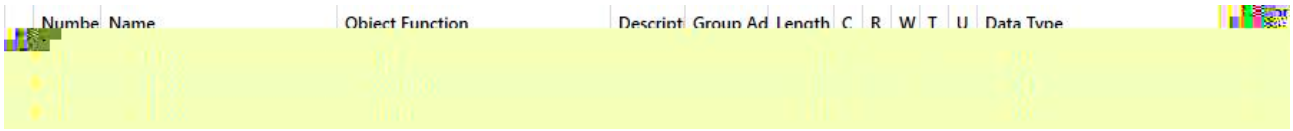
6.8.4 “Format convert”

					DPT
11	**Input ...**	**{{1st Logic}}**	**1bit** **1byte** **2bytes** **3bytes** **4bytes**	**C,W,U**	**1.001 switch** **5.010 counter pulses(0..255)** **7.001 pulses** **232.600 RGB value 3x(0..255)** **12.001 counter pulses**
k					
19	**Output ...**	**{{1st Logic}}**	**1bit** **2bit** **1byte** **2bytes** **3bytes** **4bytes**	**C,T**	**1.001 switch** **2.001 switch control** **5.010 counter pulses(0..255)** **7.001 pulses** **232.600 RGB value 3x(0..255)** **12.001 counter pulses**
k					

6.8.4 “Format convert”

6.8.5.“Gate function”

In Ip R



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

6.8.5 “Gate function”

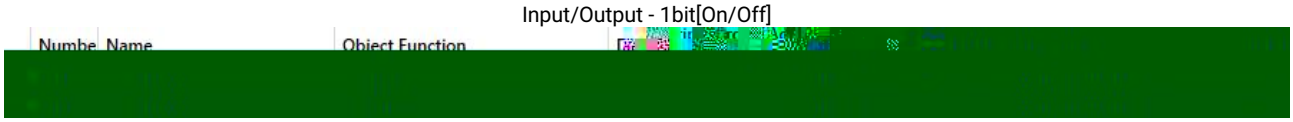
					DPT
11	**Input**	**{{1st Logic}}**	**1bit** **1byte** **2bytes**	**C,W**	**1.001 switch** **5.001 percentage** **5.010 counter pulses** **9.001 temperature** **7.001 pulses**
k					
12	**Gate input**	**{{1st Logic}}**	**1bit**	**C,W**	**1.002 boolean**
k k					
13	**Output**	**{{1st Logic}}**	**bit**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

6.8.5 “Gate function”

6.8.6.“Delay function”

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

Input/Output - 1bit[On/Off]



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

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

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

Input/Output - 2byte[Float]

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

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

6.8.6 “Delay function”

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

6.8.6 “Delay function”

6.8.7.“Staircase lighting”

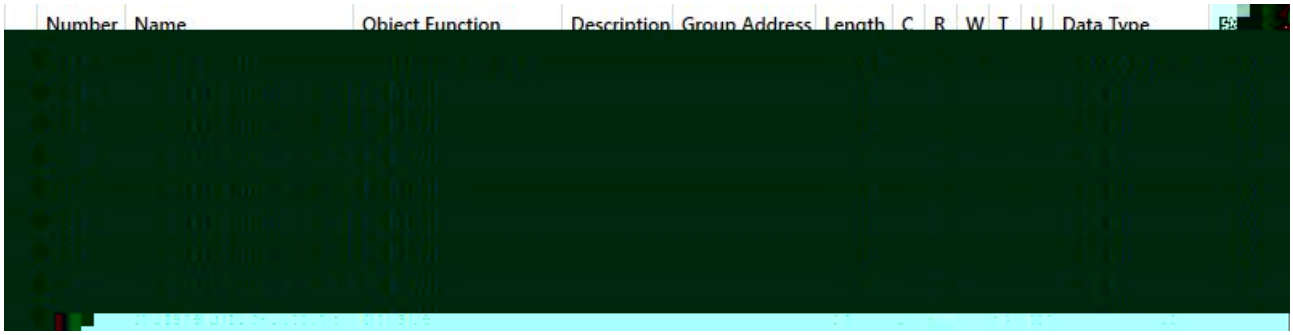
Numbe	Na	Object Function	Descript	Group Ad	Length	C	R	W	T	U	Data Type	Priority
11	1st Logic	Trigger value			1 bit	C	-	W	-	-	trigger	Low
12	1st Logic	Light-on duration time			2 bytes	C	-	W	-	-	time (s)	Low
19	1st Logic	Output			1 bit	C	-	-	T	-	switch	Low
19	1st Logic	Output			1 byte	C	-	-	T	-	counter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

6.8.7 “Staircase lighting”

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

6.8.7 “Staircase lighting”

6.9.“Scene Group”



6.9 “Scene Group”

					DPT
83	**Main scene trigger**	**Scene Group**	**1byte**	**C,W**	**17.001 scene number**
					k 0..63
84/../	**1bit value** **1byte unsigned value** **HVAC mode** **2byte unsigned value** **Temperature**	**1st Scene Group-{{Output x}}**	**1bit** **1byte** **2bytes**	**C,T**	**1.001 switch** **5.010 counter pulses** **20.102 HVAC mode** **7.001 pulses** **9.001 temperature**
k k 8 8 k “Description for Output x function” “1st Scene Group-Output x” k					

6.9 “Scene Group”