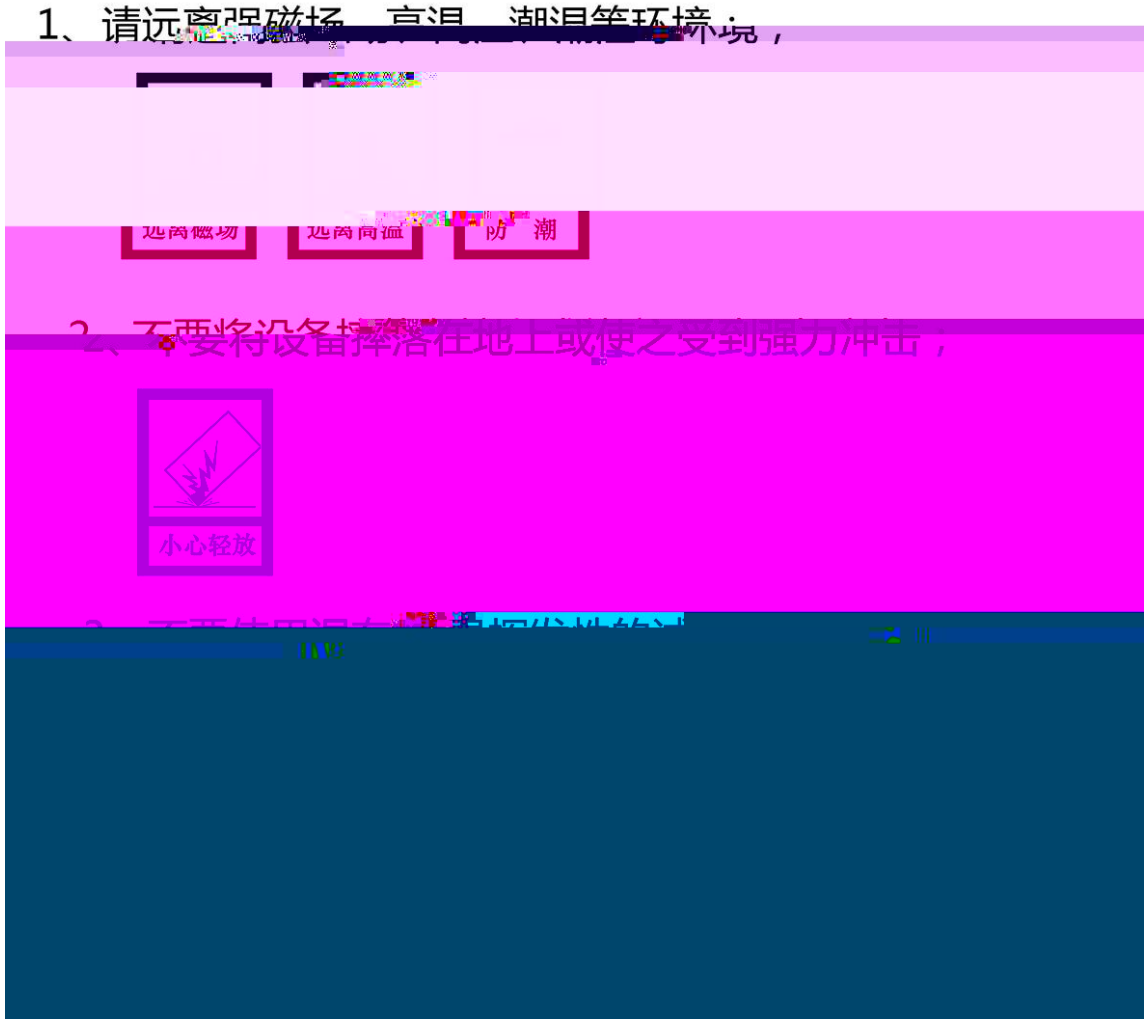
K-BUS KNX □□□□□□ □□□

注意事项

1、请远离强磁场、高温、潮湿等环境；



1

2 **MicroSD** ! !

3 **MicroSD**

4 **6**

5 **5** **V50**

k

1 **2** k

..... 1

..... 3

..... 4

3.1. 4

3.1.1 CHTF-4.0/15.3.2x CHTF-4.0/15.4.2x 4

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3.1.3 CHTF-5.0/15.4.2x 2

3.2. 3

3.2.1 CHTF-4.0/15.3.2x CHTF-4.0/15.4.2x 3

3.2.2 CHTF-5.0/15.3.2x 4

3.2.3 CHTF-5.0/15.4.2x 4

3.3. 6

3.3.1 CHTF-4.0/15.3.2x CHTF-4.0/15.4.2x 6

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KNX KNX

k ! ! ! k

KNX !

! k

KNX 80 86

3.3 k

KNX

k

KNX KNX 24-30V DC k

.knxprod ETS ETS5.7 k

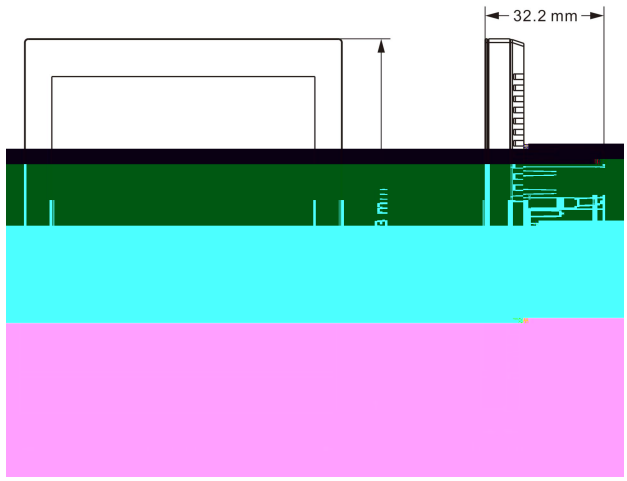
- **5.0 IPS 480x854 ! 854x480 V50**
- **4.0 IPS 480x480 V40 ! V40**
- ! ! ! !
- **HVAC**
- **IR Split Unit Gateway Integrate**
-
- **RGB ! RGBW**
- !
-
-

- **V40**
- **V40**
- ! ! **V40**
-
- ! /
-
- ! !

	21-30V DC
	3.5mA/24V DC, 3.0mA/30V DC <90mW
	24-30V DC
	<130mA/24V DC <105mA/30V DC (V40) <150mA/24V DC <120mA/30V DC (V50)
	<3.2W (V40) <3.6W (V50)
KNX	(/)
	KNX /
	–5 °C ... + 45 °C
	–25 °C ... + 55 °C – 25 °C ... + 70 °C
	<93%,
30cm	k
	80 86
86 x 101.3 x 10.5mm V40 V40 86 x 148.8 x 11.5mm (V50) 148.8 x 86 x 11.5mm (V50) (V40 V50 32.2mm ! 32.5mm)	
0.2KG V40 0.3KG V50	

3.1.

3.1.1 CHTF-4.0/15.3.2x CHTF-4.0/15.4.2x

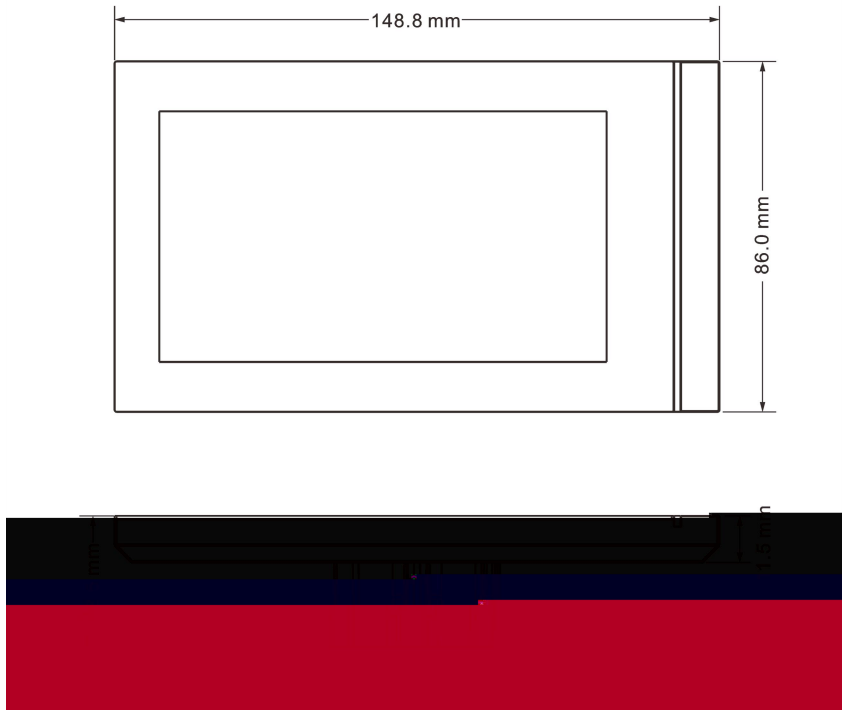


3.1.1 CHTF-4.0/15.3.2x CHTF-4.0/15.4.2x

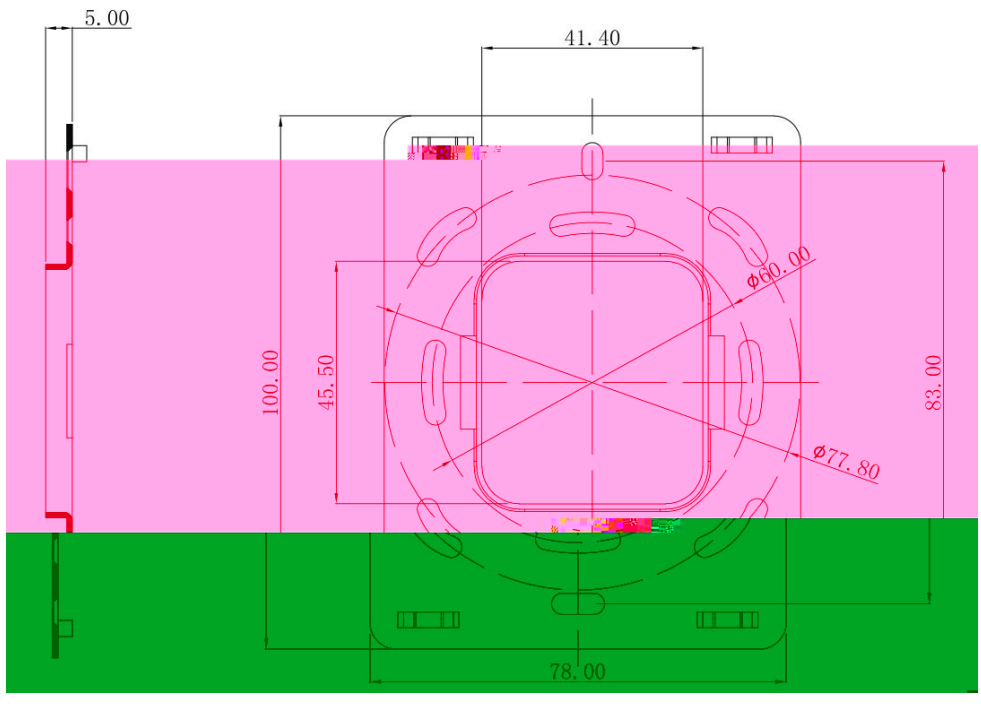
3.1.2 CHTF-5.0/15.3.2x

3.1.2 CHTF-5.0/15.3.2x

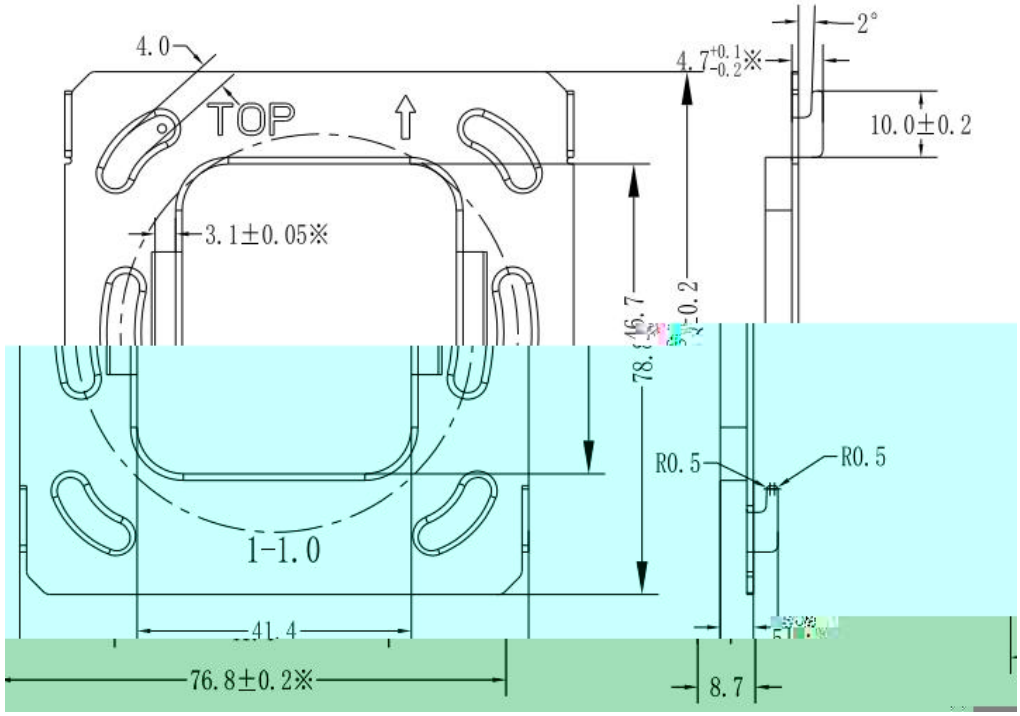
3.1.3 CHTF-5.0/15.4.2x



3.1.3 CHTF-5.0/15.4.2x



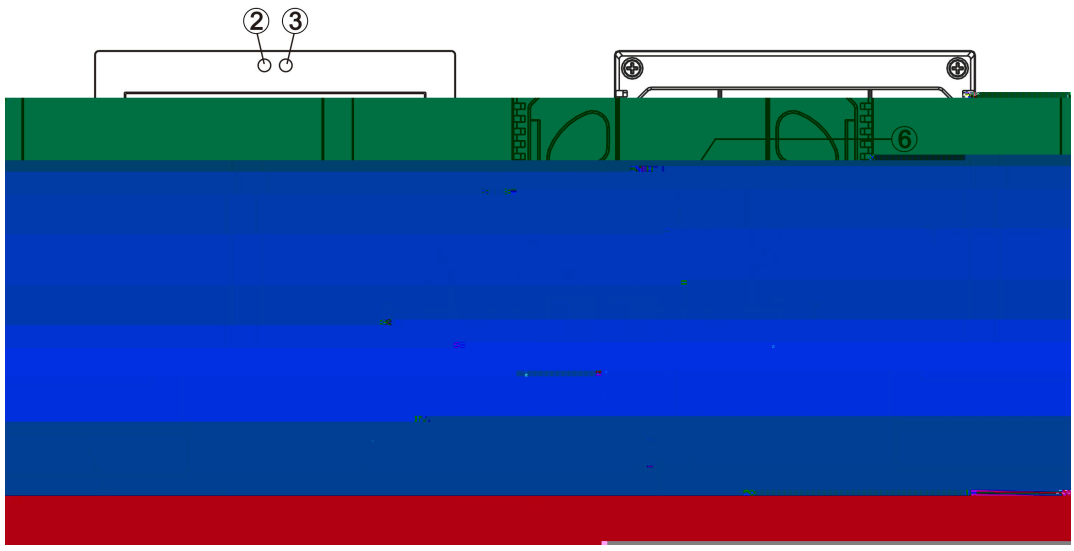
3.1.4 CHTF-5.0/15.3.2x & CHTF-5.0/15.4.2x



3.1.5 CHTF-4.0/15.3.2x

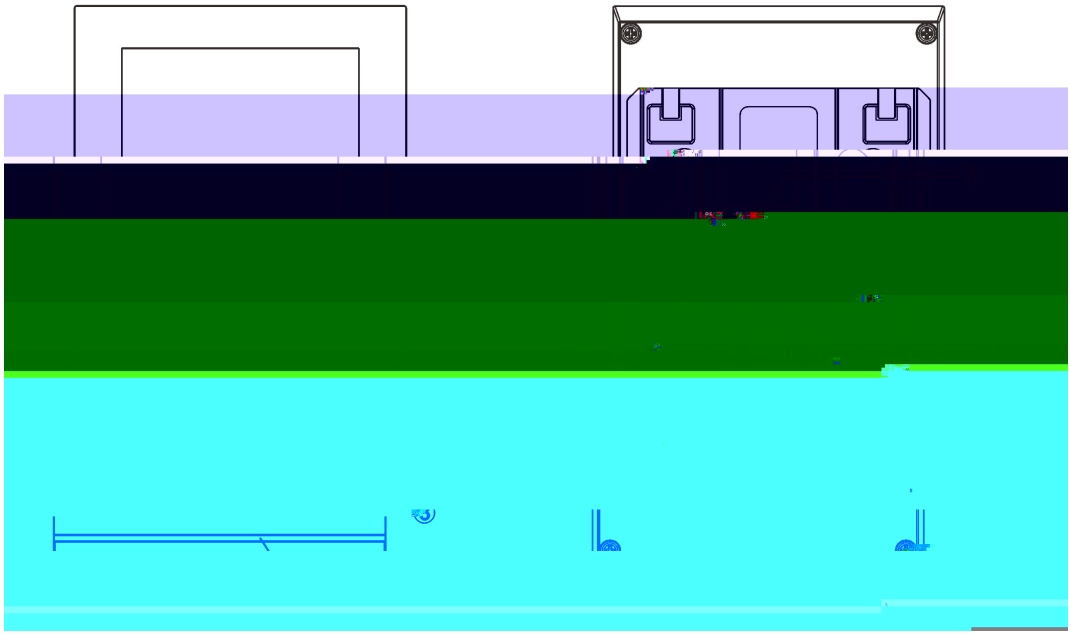
3.2.

3.2.1 CHTF-4.0/15.3.2x CHTF-4.0/15.4.2x



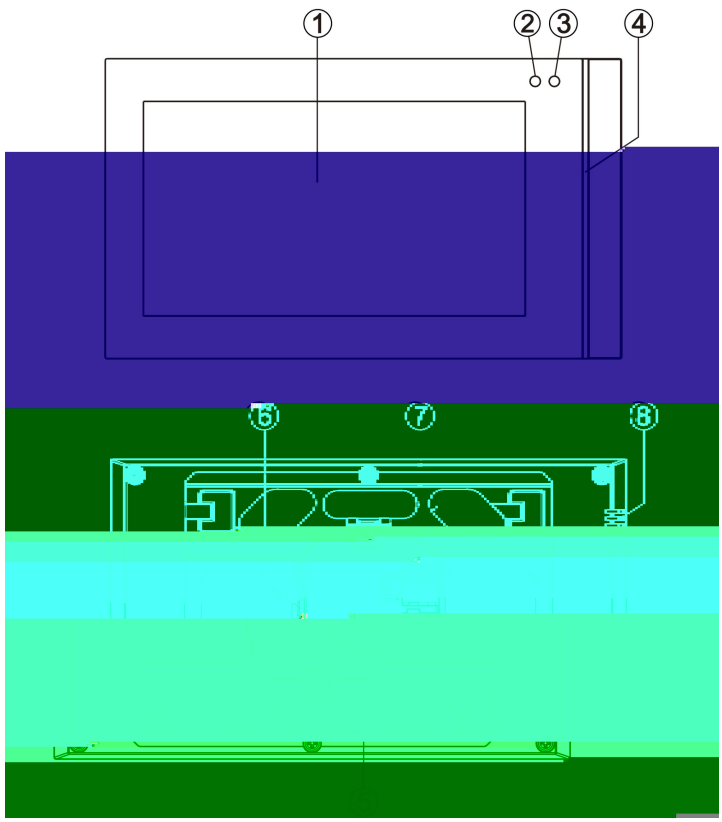
3.2.1 CHTF-4.0/15.3.2x CHTF-4.0/15.4.2x

3.2.2 CHTF-5.0/15.3.2x



3.2.2 CHTF-5.0/15.3.2x

3.2.3 CHTF-5.0/15.4.2x



3.2.3 CHTF-5.0/15.4.2x

①

②3

SD

KNX

k

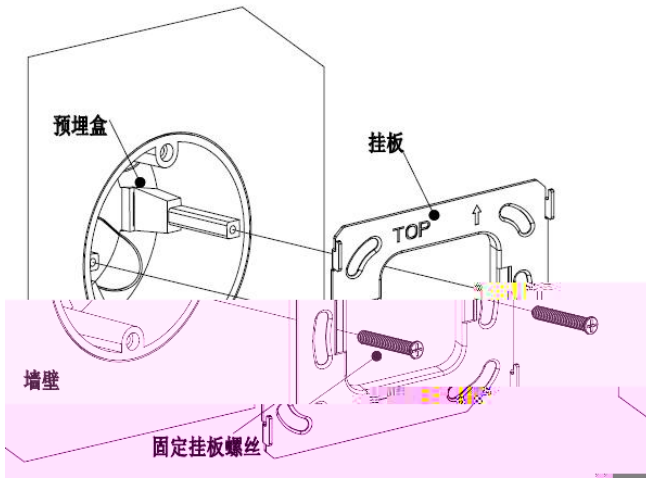
KNX

k

k

3.3.

3.3.1 CHTF-4.0/15.3.2x CHTF-4.0/15.4.2x



3.3.1.1

1. k

(1) k 3.3.1.1

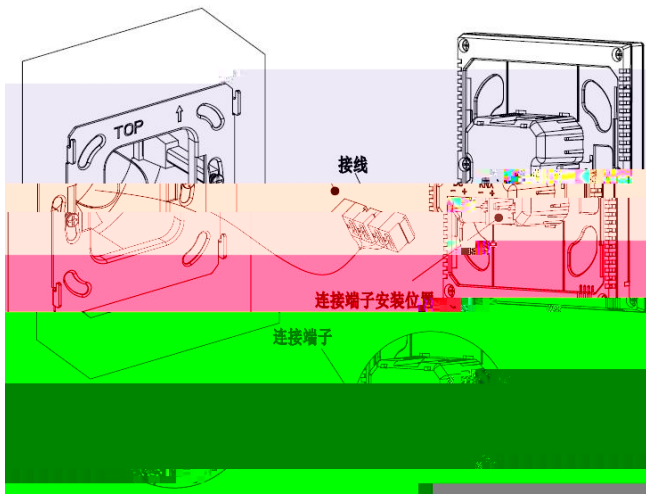
(2) TOP

(3) k

0.6~0.8N.M 6~8Kgf.cm k

(4) 86

M4 k



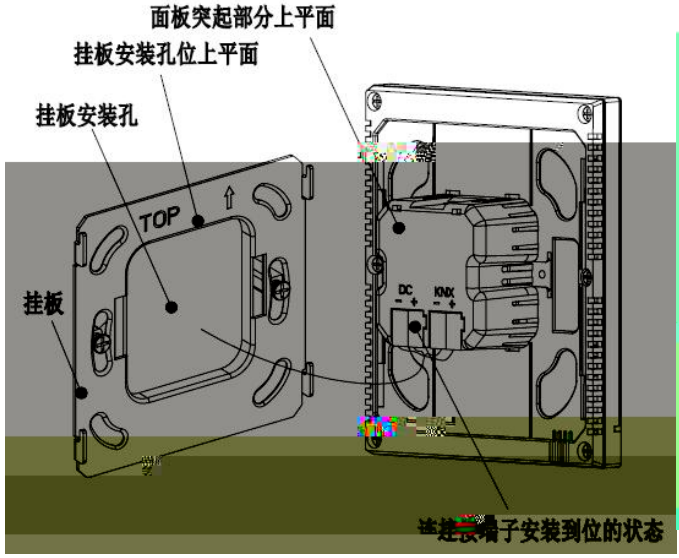
3.3.1.2

2.

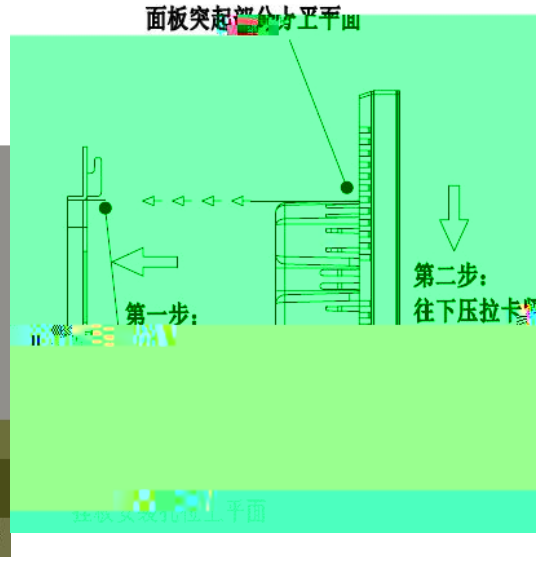
k

k

3.3.1.2 k



3.3.1.3



3.3.1.4

3. **:**

(1) 1

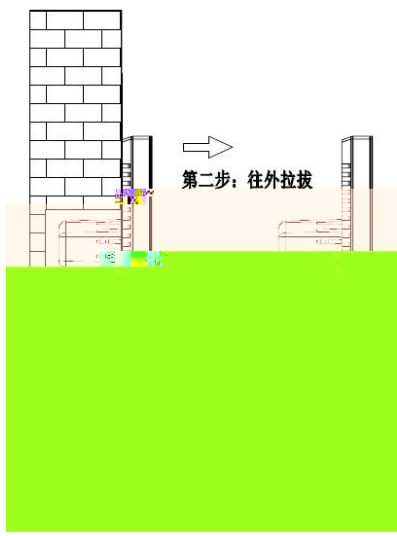
(2) 2

k 3.3.1.3 3.3.1.4

k

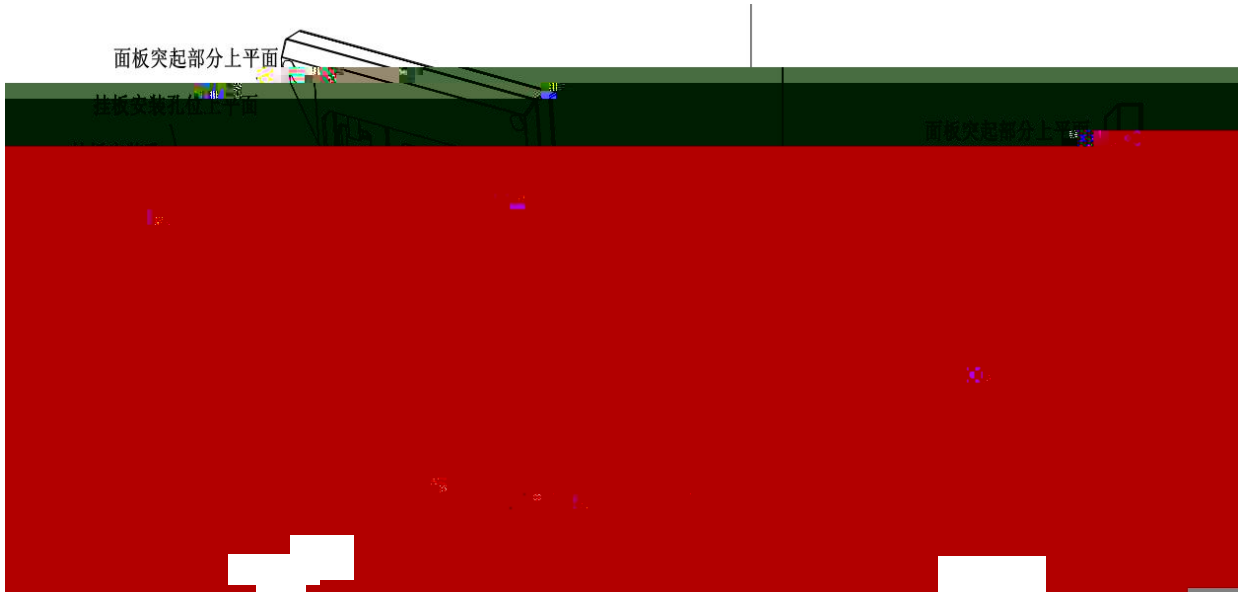
(3) 3 1 2 (3.3.1.4)

k



3.3.1.5

4.



3.3.2.3 3.3.2.4

3. :

(1) 1

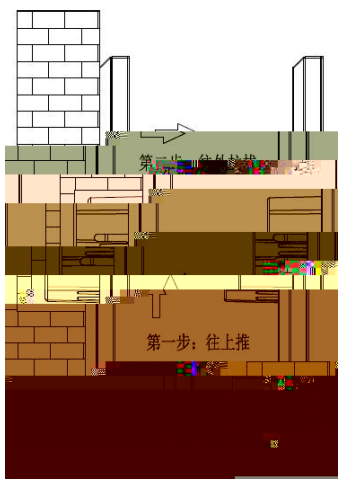
(2) 2

k 3.3.2.3 3.3.2.4

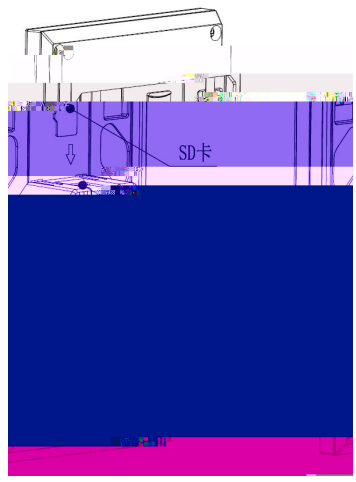
k

(3) 3 1 2 (3.3.2.4)

k



3.3.2.5



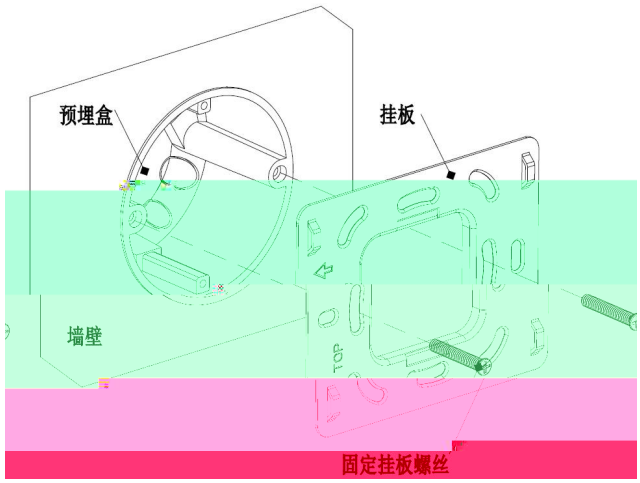
3.3.2.6

4.

k 3.3.2.5 k SD 3.3.2.6 k

3.3.3 CHTF-5.0/15.4.2x

1. k



3.3.3.1

(1) k **3.3.3.1**

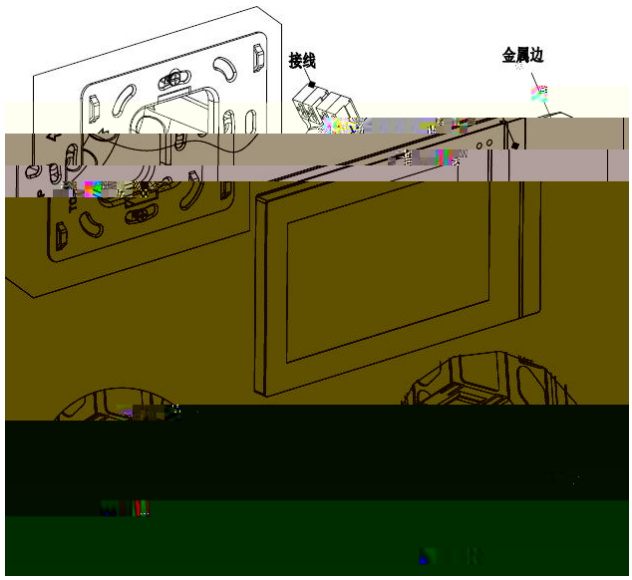
(2) **TOP**

(3) k

0.6~0.8N.M 6~8Kgf.cm

(4) **86**

M4 k



3.3.3.2

2. 1

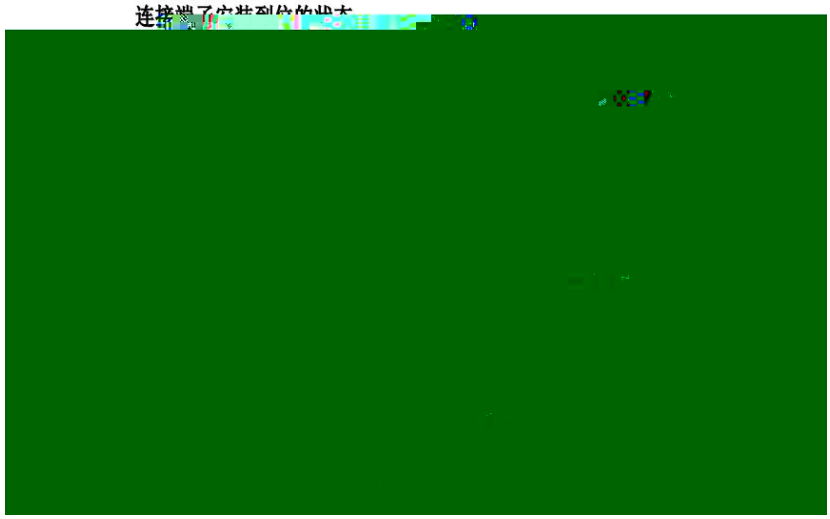
k

k

3.3.3.2 k

2

k



3.3.3.3

3. **:**

(1) 1

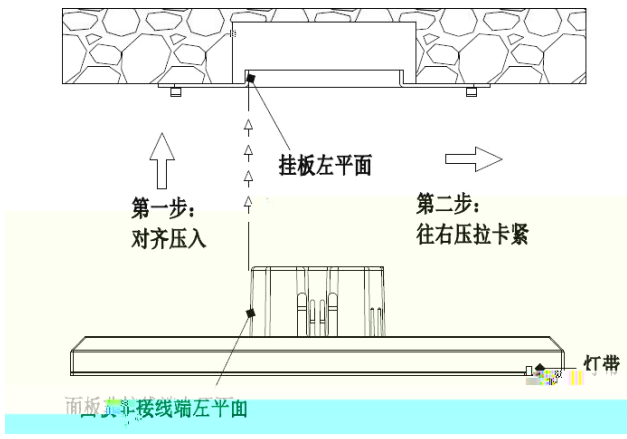
(2) 2 TOP

k 3.3.3.3

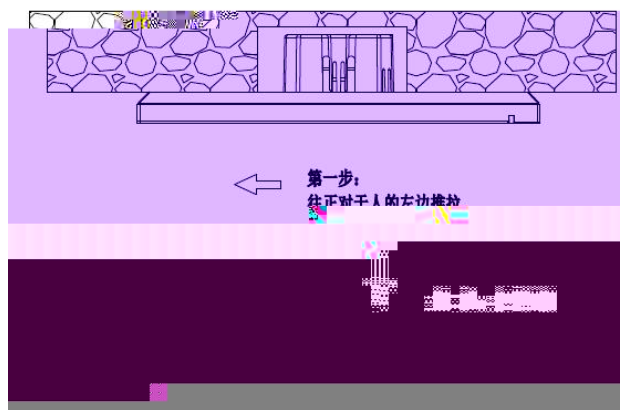
3.3.3.4 k

(3) 3 1 2 (

3.3.3.4) k



3.3.3.4



3.3.3.5

5.

k 3.3.3.5 k

KNX Smart Touch V40 **KNX Smart Touch V50** **KNX Smart Touch V50, Horizontal** **KNX Smart Touch V40 Lite**	**688**	**2000**	**2000**

V40 ! ! k

! ! ! ! !

! ! / k

! UI / k

k

k

/ k

k

k

HVAC

HVAC k

/ 4 ! !

k

k PI k

k

k

VRV KNX VRV k

/ / / /

k

RGB

RGB RGBW LED k RGBW k

k

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

k

4 k

PI k

k

/ k

PM2.5 CO2 k

! ! k

16 k

k k

8 k 8

k

8 ! !

k 8 k

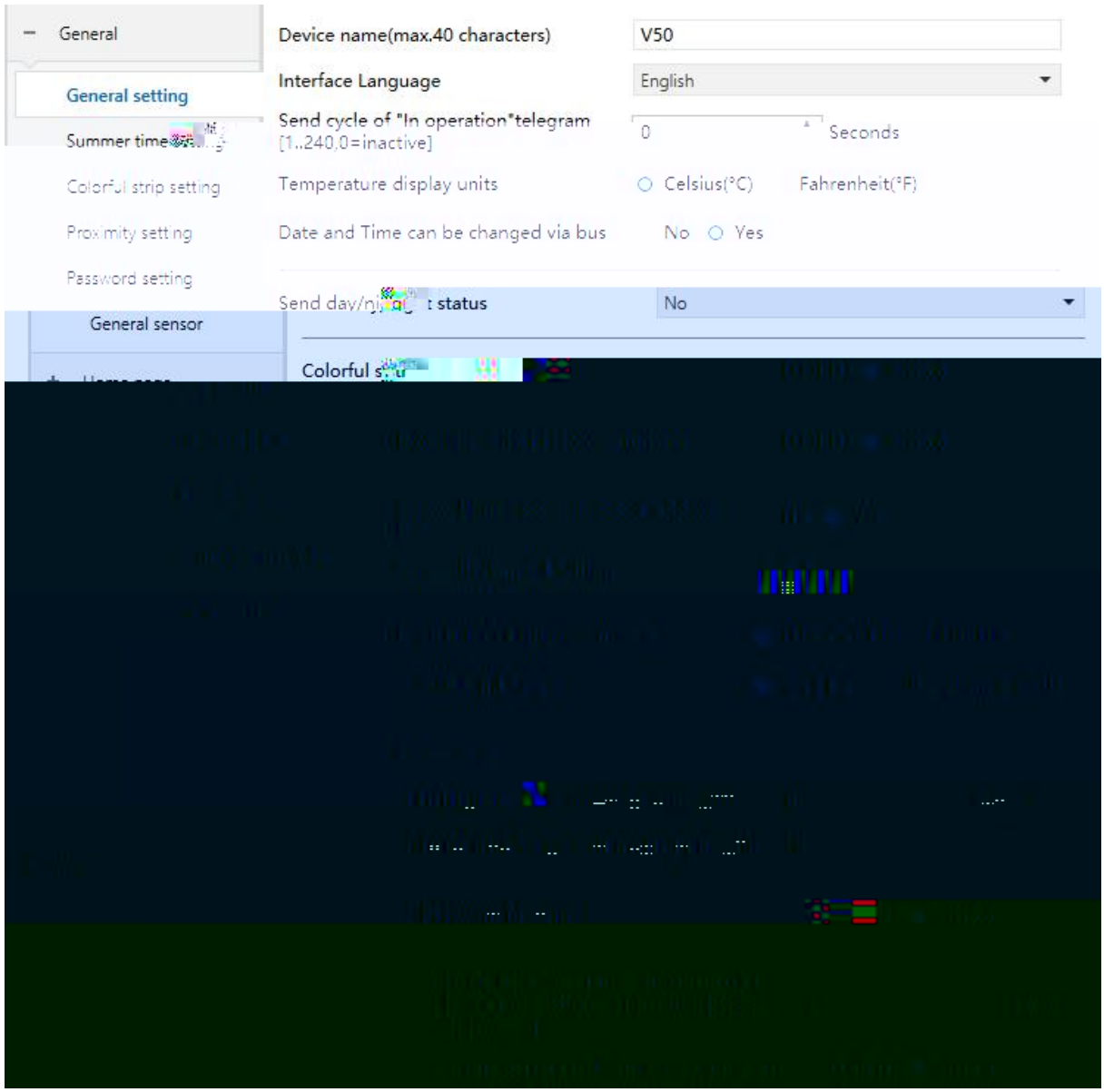
ETS

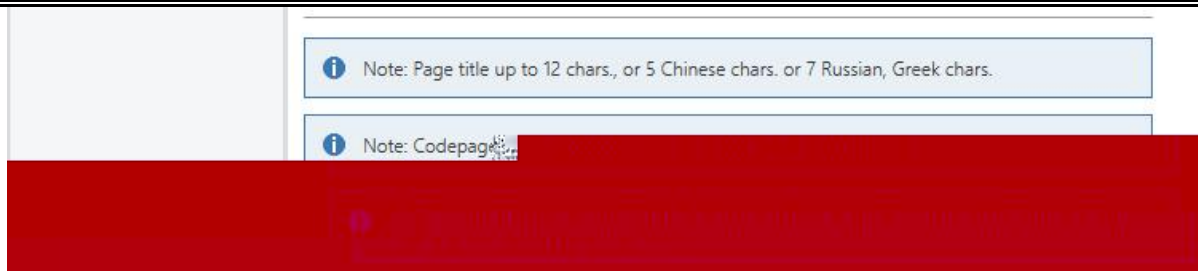
5.1. “General”

5.1.1. “General setting”

“General setting” 5.1.1 !

! ! ! ! ! k





5.1.1 “General setting”

”Device name(max.40 characters)”

40bytes **V50** ! **V40** ! **V40 Lite** k

k

”Interface Language”

Chinese	**Russian**
English	**Italian**
German	**Greek**
French	**Other**
Spanish	

Language name

other k

k k

Other k

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

k “0” “In operation” k “0” “In operation” “1”

k **0...240s 0=**

k

"Temperature display units"

k

Celsius(℃)

Fahrenheit( )

, k

"Date and Time can be changed via bus"

/ k

No

Yes

"Yes" "Date" "Time" "Date" "Time" k

RTC V50 ®5ppm V40 ®20ppm k

"Send day/night status"

/ Day/Night k

No

Depend to certain time

Depend to sunrise&sunset

No k

Depend to certain time / k 18 30

6 30 k

Depend to sunrise&sunset / k

116-20 ! 39-56 k

"Depend to certain time", k

-- **“Time for switch to night at:Hours[0..23]”**

-- **“Time for switch to night at: Minutes[0..59]”**

18h 0min k

-- **“Time for switch to day at:Hours[0..23]”**

-- **“Time for switch to day at: Minutes[0..59]”**

k 6h 0min k

“Depend to sunrise&sunset”, k

-- **“Latitude longitude location setting”**

“Beijing,China” k

-- **“Latitude”**

k

South

North

-- **“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**

-10min 10min 10min

10min k

-- **“Switching time move to day[-128..127]min”**

k

k **-128..127**

-10min 10min 10min

10min k

5.1.2

k

"Colorful strip function"

k

Disable

Enable

Disable: k

Enable: 5.1.3 k

1.3 **k**

"Proximity sensor response function"

k

Disable

Enable

Disable: k

Enable: 5.1.4 k

1.3 **k**

"Screen brightness can be changed via bus"

No

Yes

"Screen background setting"

k

Default

1-Church

2-Water droplets

k

Default **TF**

k

"UI style for Multifunction page"

(Multifunction(Lighting/Blind/Scene/Value send)) k

Windows Tile

List Tile

k

-- **"Status indication"**

Windows Tile k

Only Icon

Both Icon and Tile

Only Icon k

Both Icon and Tile

k

k

"Screen saver"

k

Disable

Clock

Album

"Clock" k

"Album" 5 k

"Disable" k

TF

k

-- **“Delay time for screen saver [5..255]s”**

k **5..255**

“Delay time for turn off backlight[0..255]s”

k

k **0..255**

0 k

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

0 **k**

“Password function ”

k

Disable

Enable

Disable: k

Enable: 5.1.5 k

k

“Delay time from function page back to home page when no operation[0..255,0=inactive] Seconds”

k **0..255**

0 k

”Status object read request after restart”

k

Disable

Enable

! ! ! !

k

k

k

! ! CO2 ! PM2.5

k

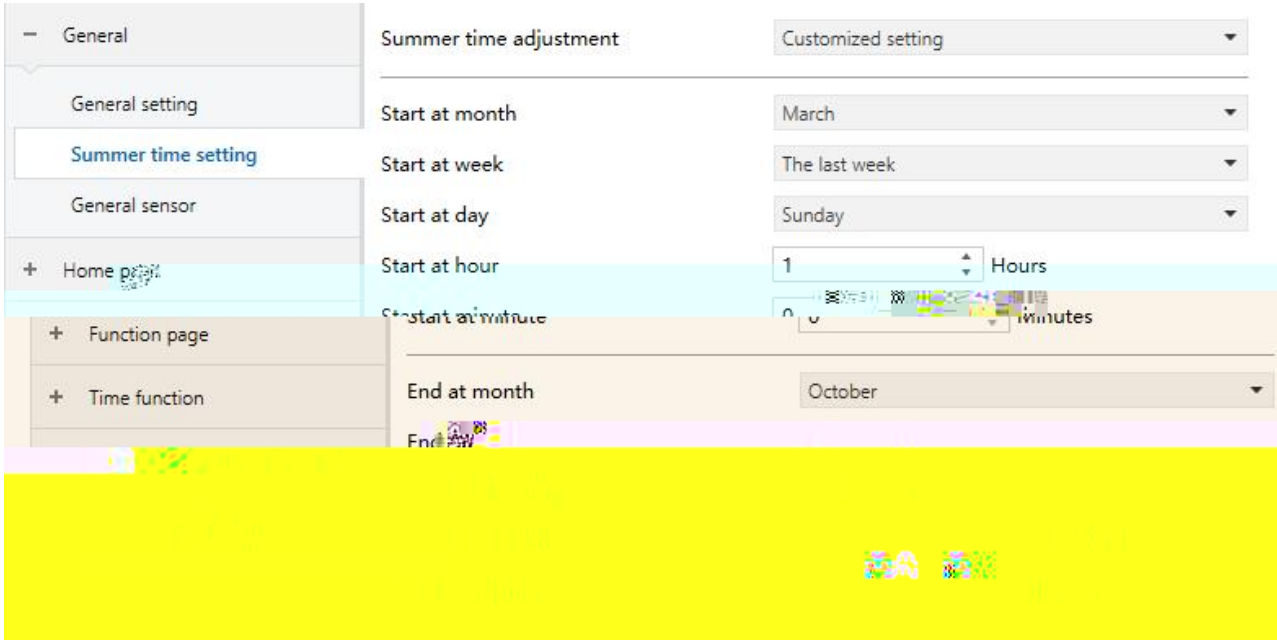
! ! !

k

N

5.1.2. “Summer time setting”

“Summer time setting” 5.1.2 k



5.1.2 “Summer time setting”

”Summer time adjustment”

k

No

Always

Customized setting

No: k

Always k

Customized setting k

“Customized setting”, k

“Start/End at month”

k

January

February

...

December

- **“Start/End at week”**

k

The first week

The second week

...

The last week

- **“Start/End at day”**

k

Monday

Tuesday

...

Sunday

-- **“Start/End at hour[0..23]”**

-- **“Start/End at minute[0..59]”**

18h:00min k

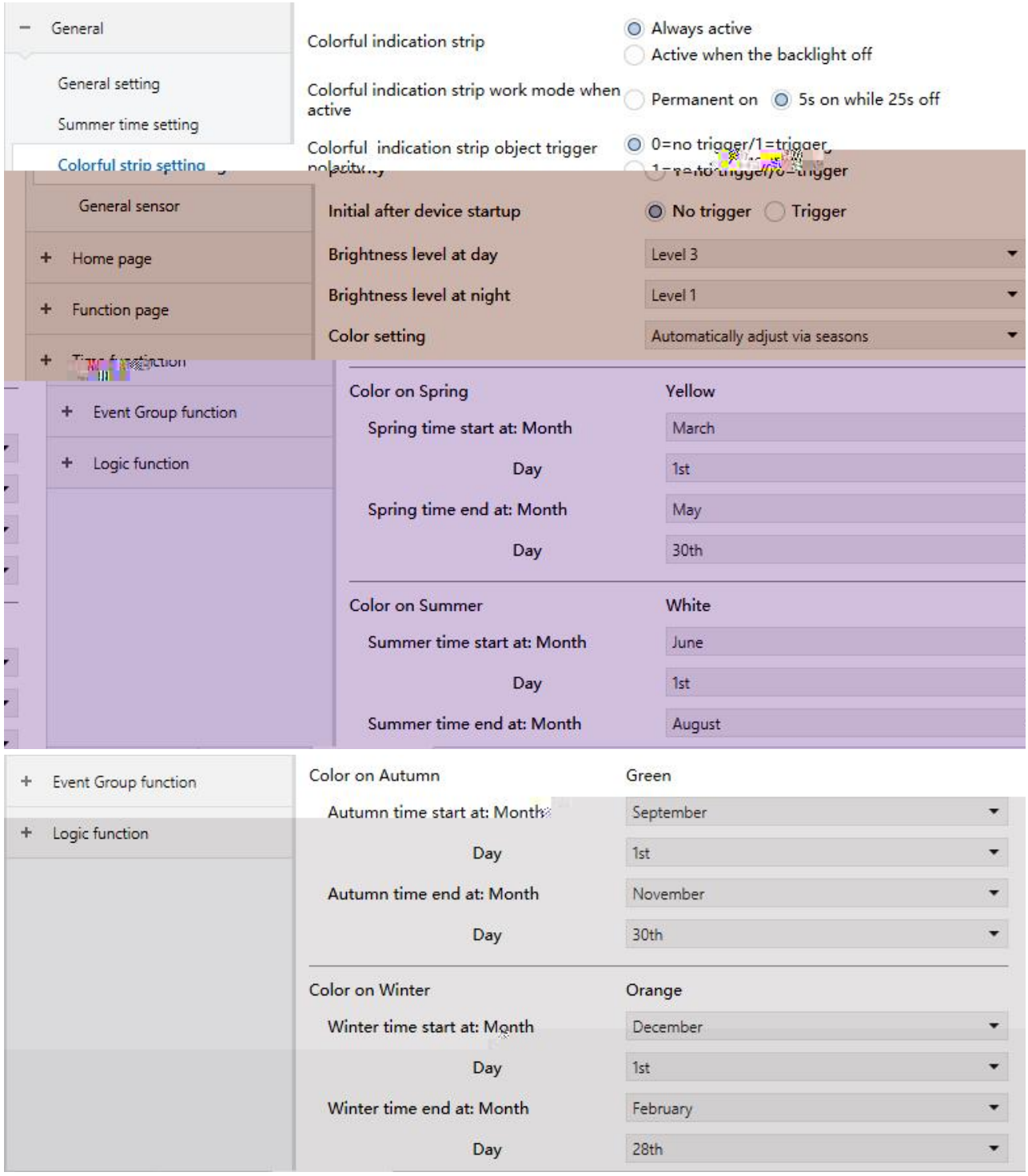
3 02h:00min 11

02h:00min

03h:00min 02h:00min k

5.1.3. “Colorful strip setting”

“Colorful strip setting” 5.1.3 k



5.1.3 “Colorful strip setting”

"Colorful indication strip"

k

Always active

Active when the backlight is off

Always active k

Active when the backlight is off

k

"Colorful indication strip work mode when active"

k

Permanent on

5s on while 25s off

Permanent on k

Note: In this case, it may affect the precision of internal temperature detection, and the average of total on time should be not more than 8 hours in Per day, otherwise it may affect the normal life of RGB led. 8

RGB k

5s on while 25s off 5 25 LED

k

"Colorful indication strip object trigger polarity"

k

0=no trigger/1=trigger

1=no trigger/0= trigger

0=no trigger/1=trigger Colorful strip trigger 1

0 k

"Initial after device startup"

k

No trigger

Trigger

No trigger

Trigger k

-- **"Brightness level at day"**

k

Level 1

Level 2

Level 3

Level 4

Level 5

Level 1 Level 5 k

-- **"Brightness level at night"**

k

OFF

Level 1

Level 2

Level 3

Level 4

Level 5

OFF Level 1 Level 5 k

-- **"Color setting"**

k

Red

Green

Blue

White

Yellow

Cyan

Purple

Orange

Cyan blue

Automatically adjust via seasons

Receive a 3byte value **3byte** **RGB**

Automatically adjust via seasons

k

-- "Color on Spring/Summer/Autumn/Winter"

- - - - k

-- "Spring/Summer/Autumn/Winter time start at: Month/Day"

k

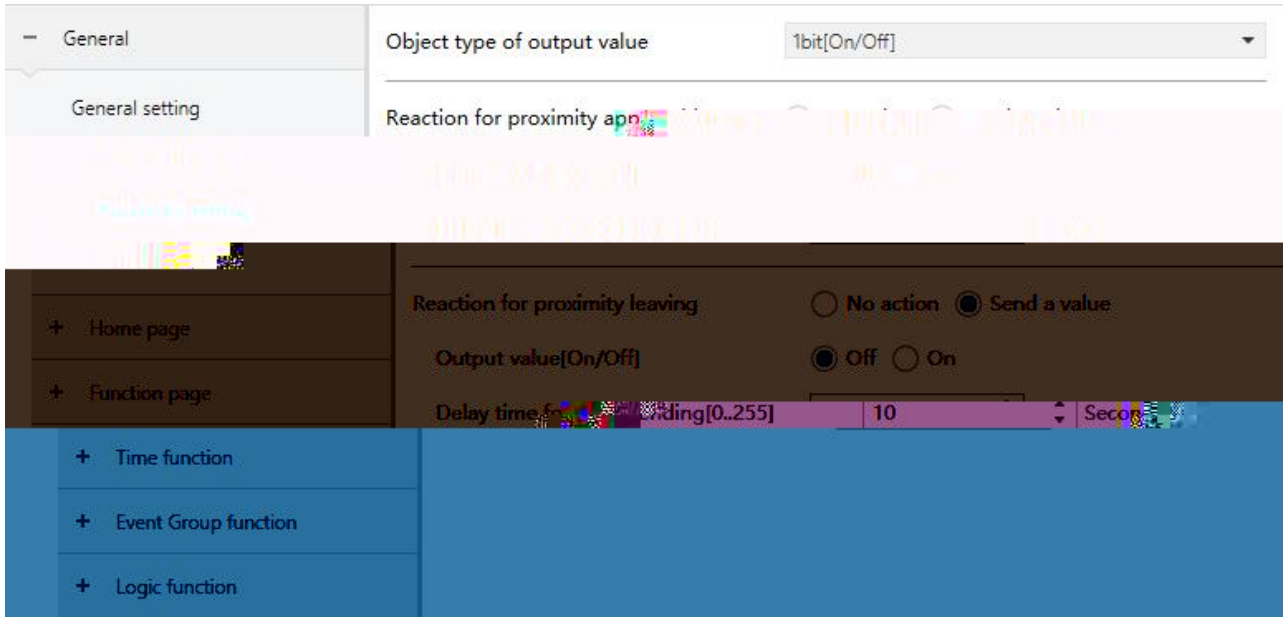
k

5.1.4. “Proximity setting”

“Proximity setting” 5.1.4 k

k

k



5.1.4 “Proximity setting”

“Object type of output value”

k

1bit[On/Off]

1byte [scene control]

1byte[0..255]

1byte[0..100%]

“Reaction for approaching/leaving”

k

No send

Send a value

Send a value k

-- **Output value[On/Off]**

-- **Output scene NO.[1..64]**

-- **Output value[0..255]**

-- **Output value[0..100%]**

k

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

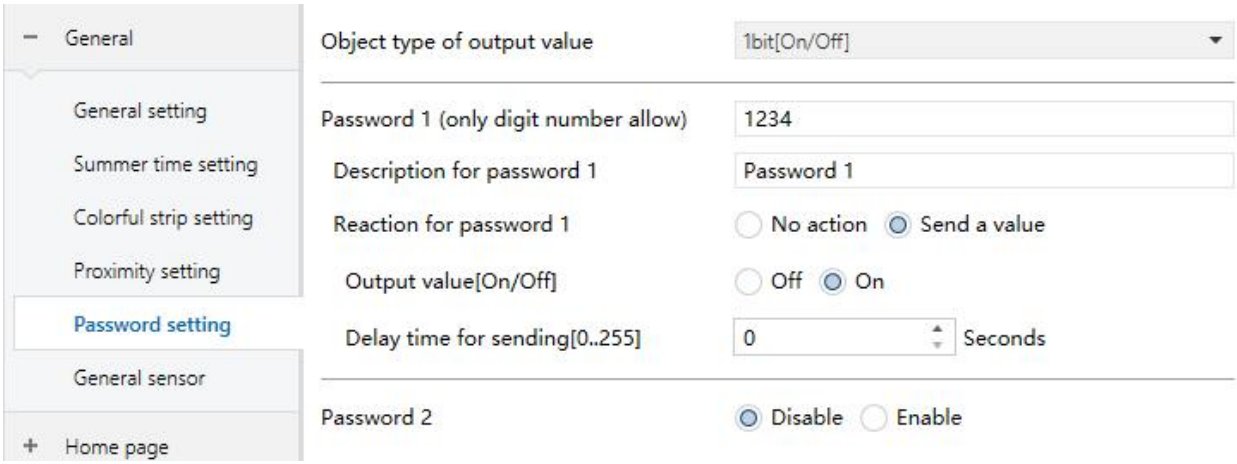
k **0..255**

k

5.1.5. “Password setting”

“Password setting” 5.1.5

k



5.1.5 “Password setti

Send a value k

-- **Output value[On/Off]**

-- **Output scene NO.[1..64]**

-- **Output value[0..255]**

-- **Output value[0..100%]**

k

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

k **0..255**

"Password2"

k

Disable

Enable

Disable: k

Enable: k

"Password 2 (only digit number allow)"

4 k

"Password3"

k

Disable

Enable

Disable: k

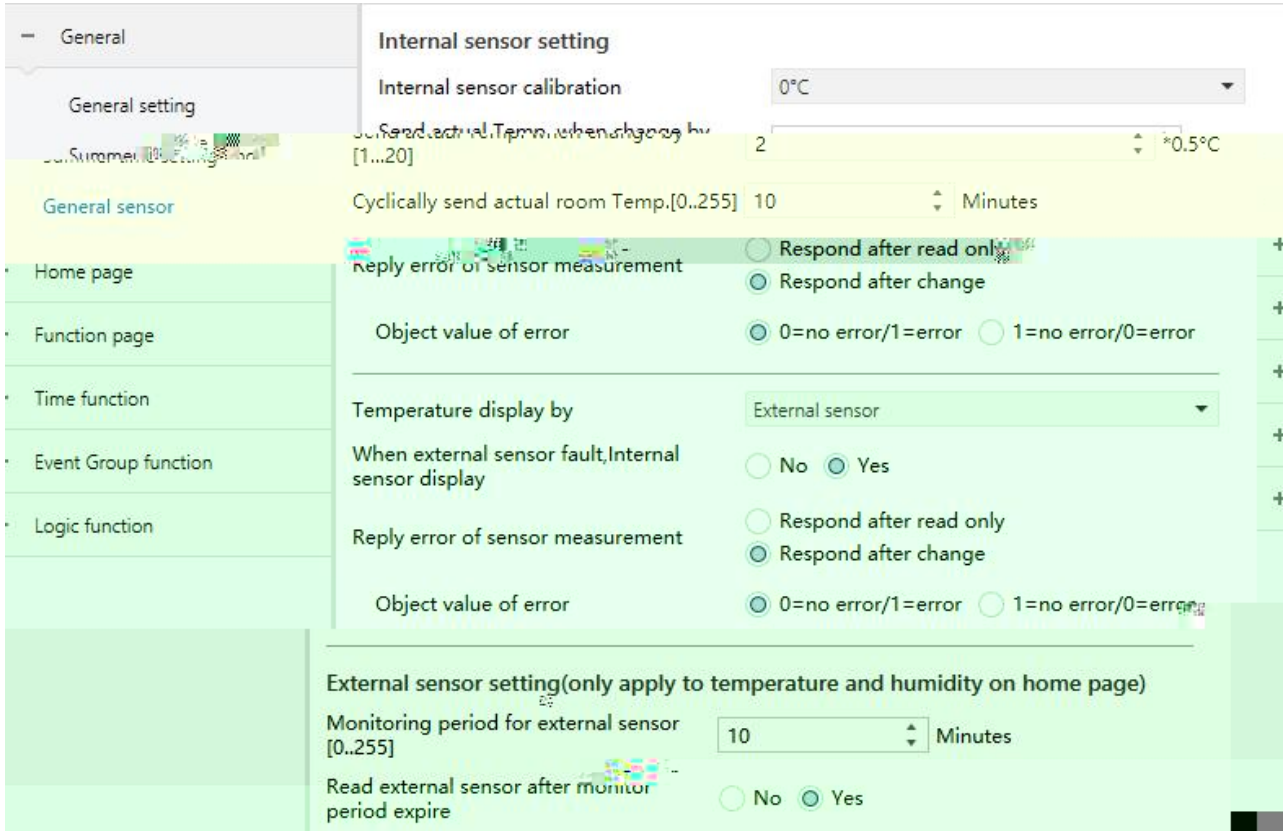
Enable: k k

k

5.1.6. “General sensor”

“General sensor” 5.1.6 k

k



5.1.6 “General sensor”

!

k

“Internal sensor calibration”

k

-5℃

…

0℃

…

5℃

30

k

"Send actual Temp

"Temperature display by"

k

Disable

Internal sensor

External sensor

Internal sensor "Internal sensor - Actual temperature"

External sensor "External sensor - Temperature"

0 k

"When external sensor fault, Internal sensor display"

k

No

Yes

No 0 k

Yes k

"Reply error of sensor measurement"

Respond after read only

Respond after change

Respond after read only "External sensor - Temp. error report"

Respond after change "External sensor - Temp. error report"

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

“Monitoring period for external sensor [0..255]min”

k k

0...255

0

“When external sensor fault, Internal sensor display” k

, k

“Read external sensor after monitor period expire”

k

No

Yes

No k

Yes k

LCD **5~15s** k

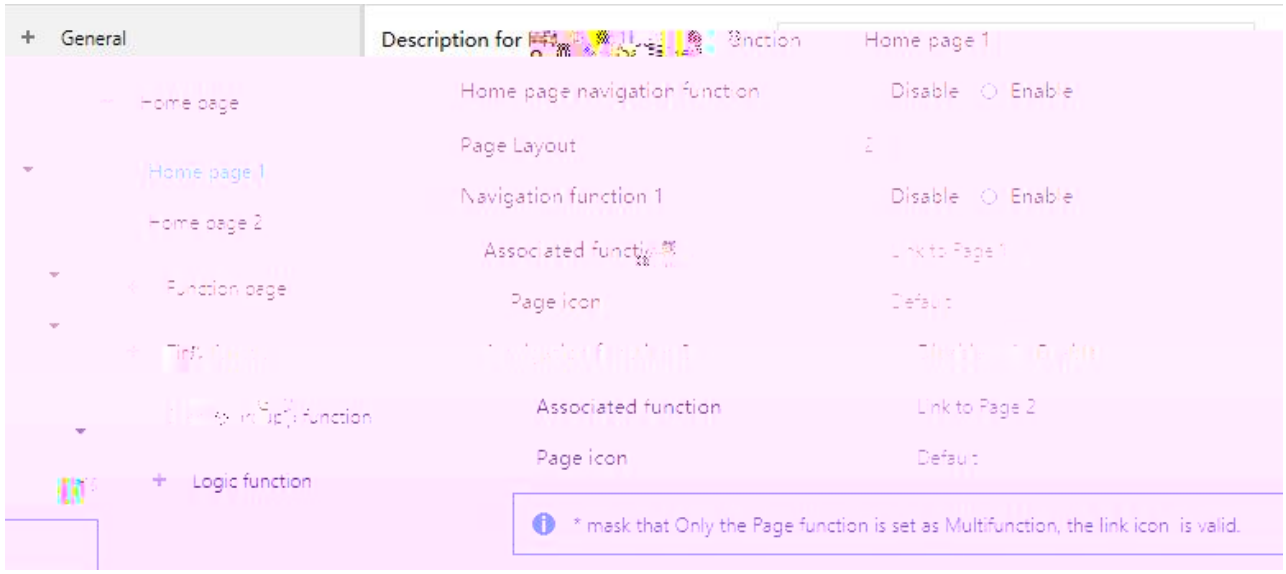
5.2. “Home page”

5.2.1. “Home Page x”

“Home Page x” 5.2.1

8 k

k k



5.2.1 “Home Page x”

“Description for Home page function”

15 5 k

“Home page navigation function”

k

Disable

Enable

k k

“Enable” k

"Page Layout"

k **1/2/3/4/6/8**

8 k

k

V50 **6** k

"Navigation function x x=1...9"

x k

Disable

Enable

"Enable" k

-- "Associated function"

x k

Link to Page 1

...

Link to Page 15

Link to icon in Page 1 *

...

Link to icon in Page 15 *

15 15 k

V40 **x** **6** k

k

k

-- "Page icon"

k

Default

- **Lighting**
- **Scenario**

...

- **Reception**

Default k

k

-- "Icon number"

"Associated function" k

1/2/3/4/5/6/7/8

V50 **6** k

"Associated function" "Link to icon in Page 2 *" 5

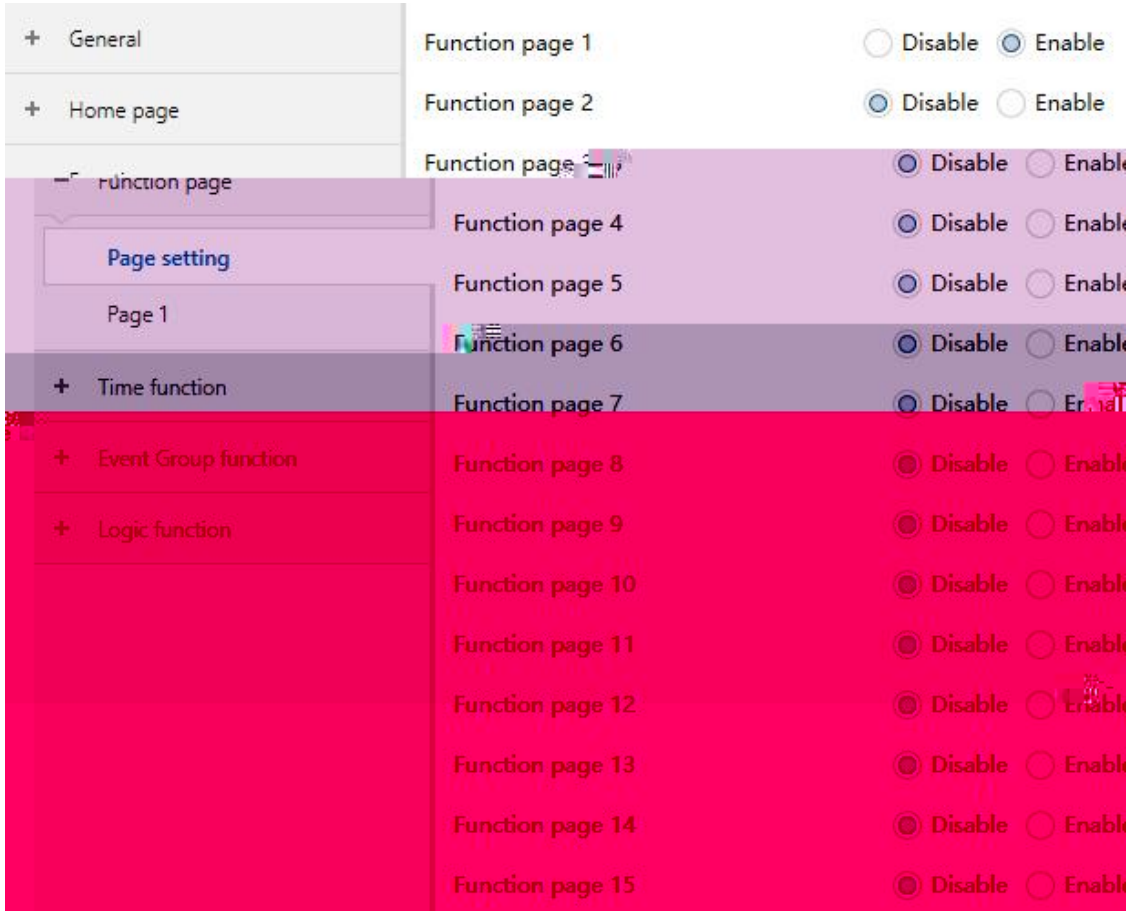
2 5 k

***mask that Only the Page function is set as Multifunction, the link icon is valid.**

***** k **Associated Navigation**

5.3. “Function Page”

5.3.1. “Page Setting”



5.3.1 “Function page setting”

“Function page x(x=1..15)”

x k

Disable

Enable

“Enable” “Page x” 5.3.2 x k

15 k

5 **10** k

V40 **6** k **2** **4**

k

"Page function"

k

Multifunction (Lighting/Blind/Scene/Value send) (/ / /)

HVAC **HVAC**

Air conditioner

Background Music

RGB dimming **RGB**

Air Quality display

Floor heating

Ventilation System

Energy Metering display

1~5 6-15 k

k

! !

"Number of Function icon"

k **1/2/3/4/6/8**

V50 **6** k

"Icon x x=1...8"

x k

Disable

Enable

"Enable" k

-- "Function icon"

k

Default

No icon, only text

- **Ceiling light**

...

- **General**

Default k

k

-- "Description for Icon x"

x 12 k

9 4 k

-- "Function of Icon x"

x k

Switch

Switch/Dimming /

Value send

Open/close Blind

Roller Blind(without slat)

Venetian Blinds(with slat)

Blind(open/close/stop) / /

Blind(up/down/stop) / /

Scene control

Switch k “Switch” “Switch status”

k “Switch” “Switch Status”

“Switch Status” k

Switch/Dimming k

“Switch” ! “Brightness dimming” ! “Brightness Status” “Relative dimming”

k

k

“Brightness dimming” “Brightness status” k

“Brightness dimming” “Brightness status”

k

Value send: k

Open/close Blind

! ! k

Roller Blind(without slat)

! ! k

Venetian Blinds(with slat)

! ! k

Blind (open/close/stop): ! !

k

Blind (up/down/stop): ! !

k

Scene control k

k

-- **Datatype of object**

k

1bit[On/Off]

2bit[0、3]

4bit[0、15]

1byte[0、255]

1byte[0、100%]

1byte[scene control]

2byte[-32768、32767]

2byte[0、65535]

-- **Output value when press**

k

-- **Long operation function**

k

Disable

Enable

“Enable” k

-- **Output value when long operation**

k

k

-- **“Output scene NO.”**

k **1..64**

1..64 0..63 k

-- torage scene via long ration”

k

Disable

Enable

0

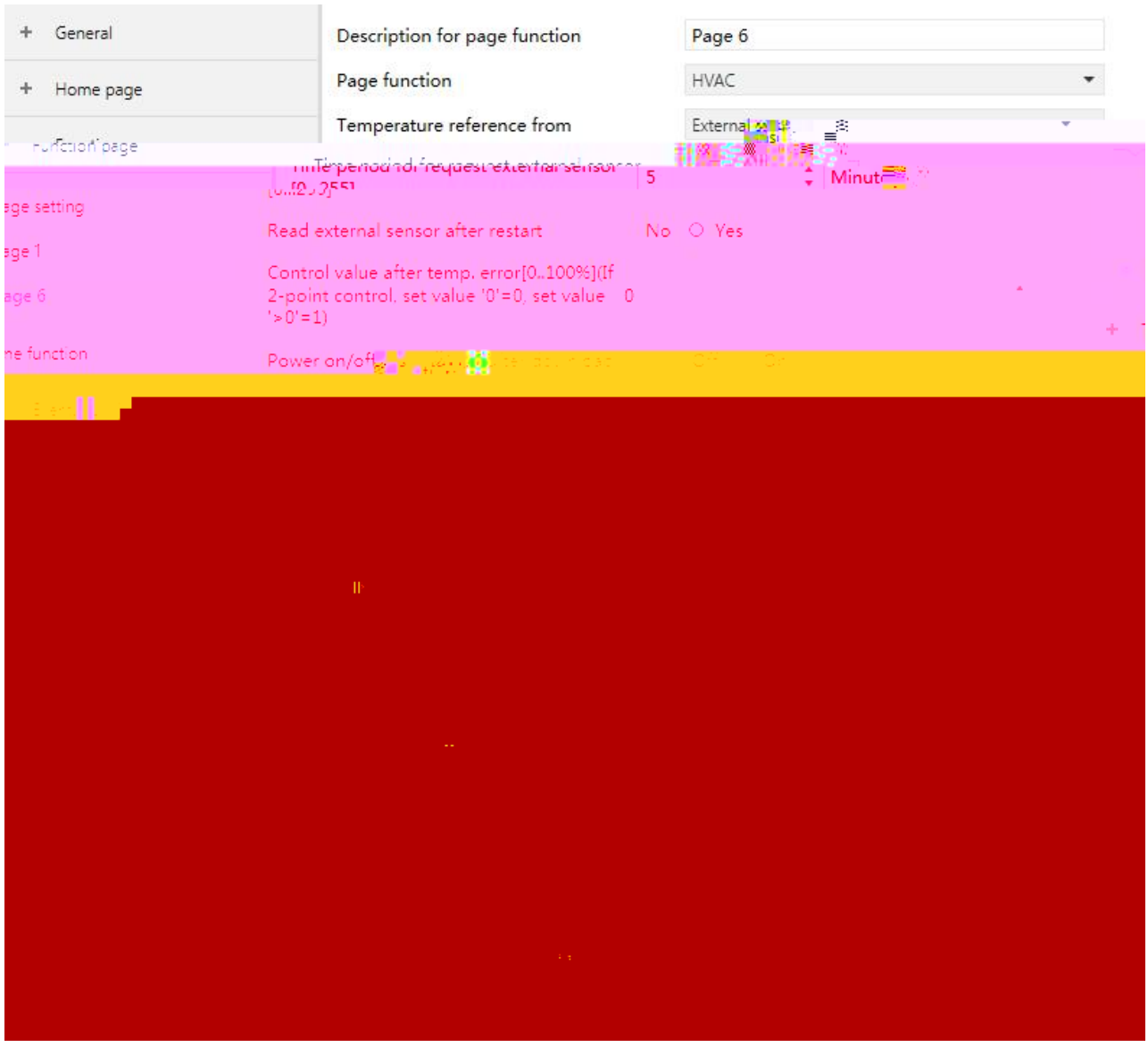
1

5.3.3. “Page x VAC”

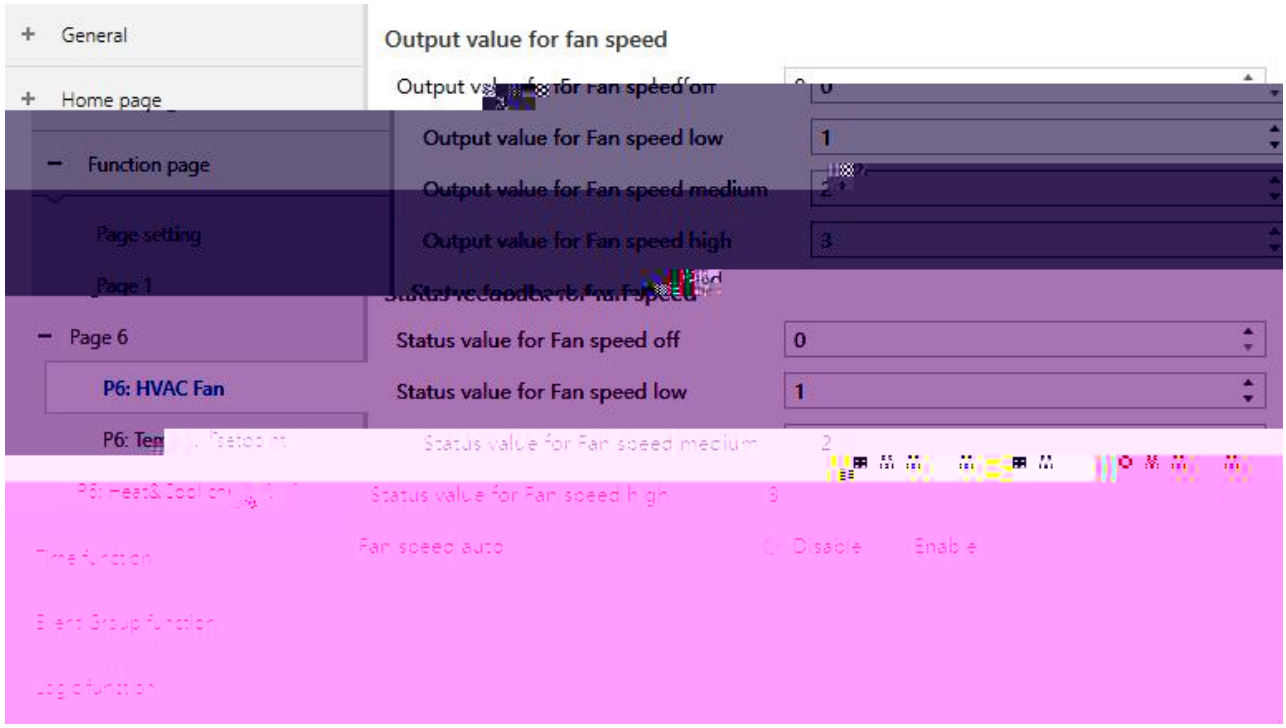
0

“Page x-- HVAC” 5.3.3 VAC k

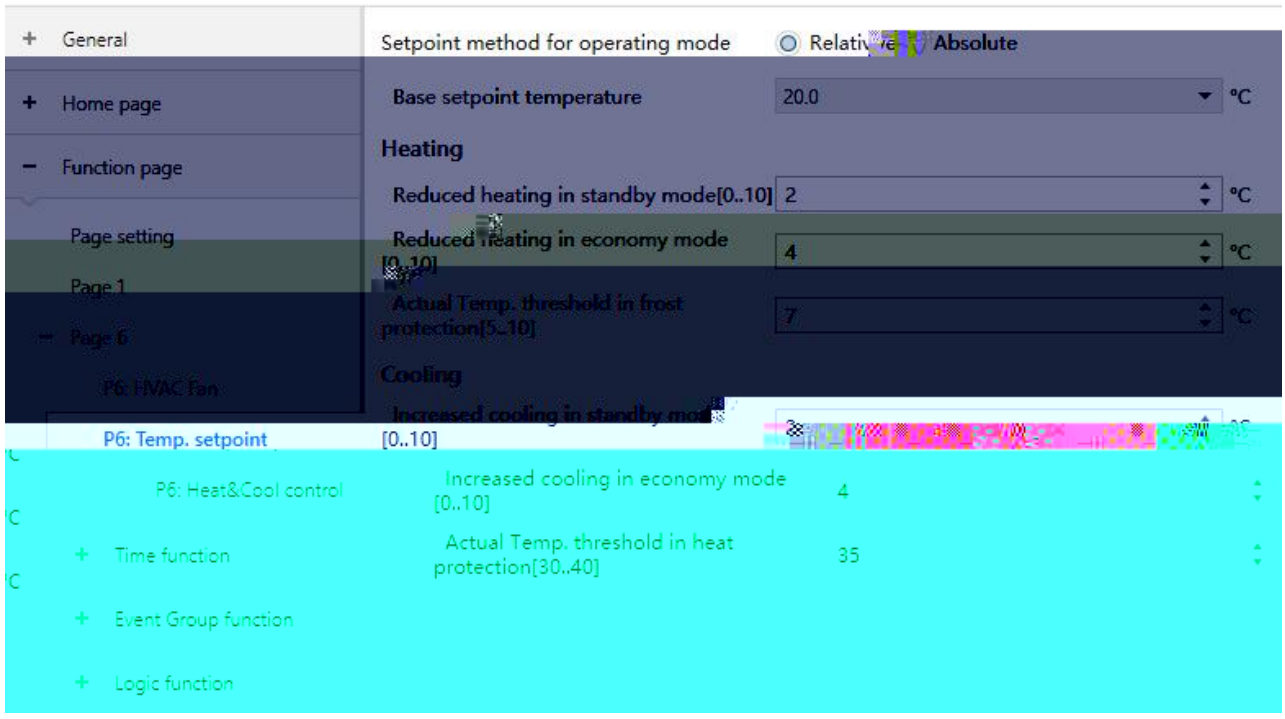
3



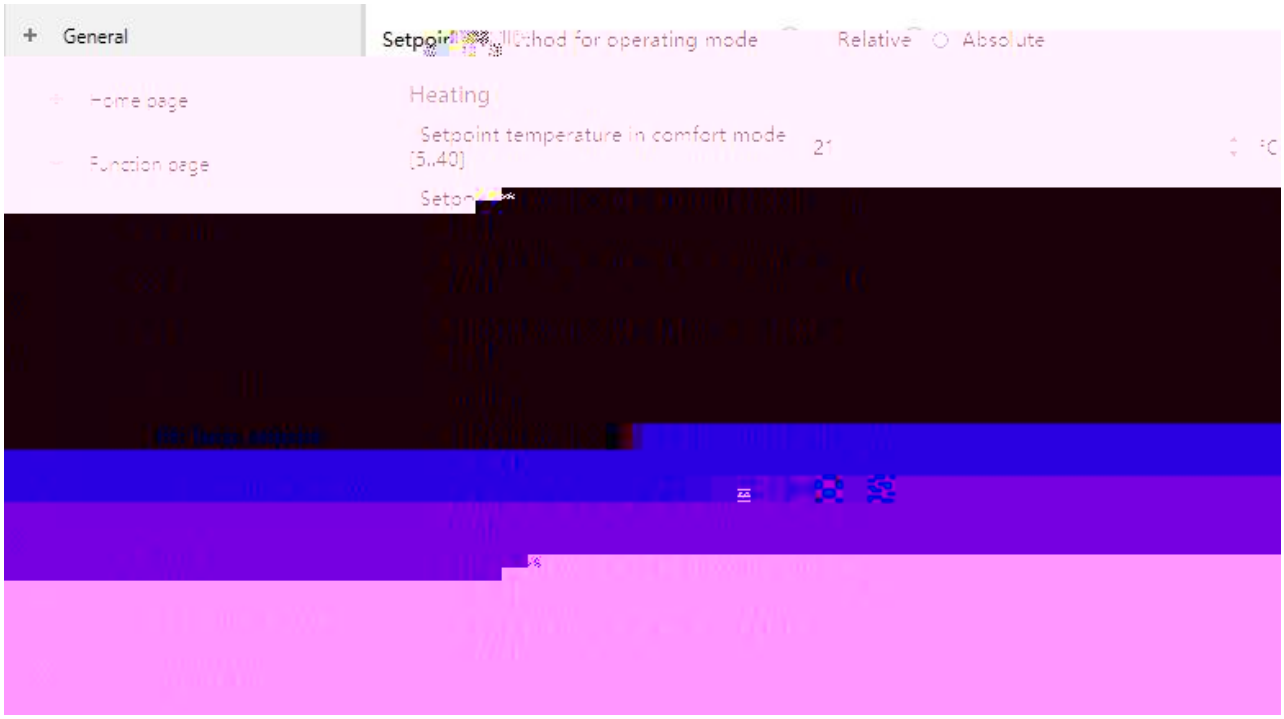
5.3.3 (1



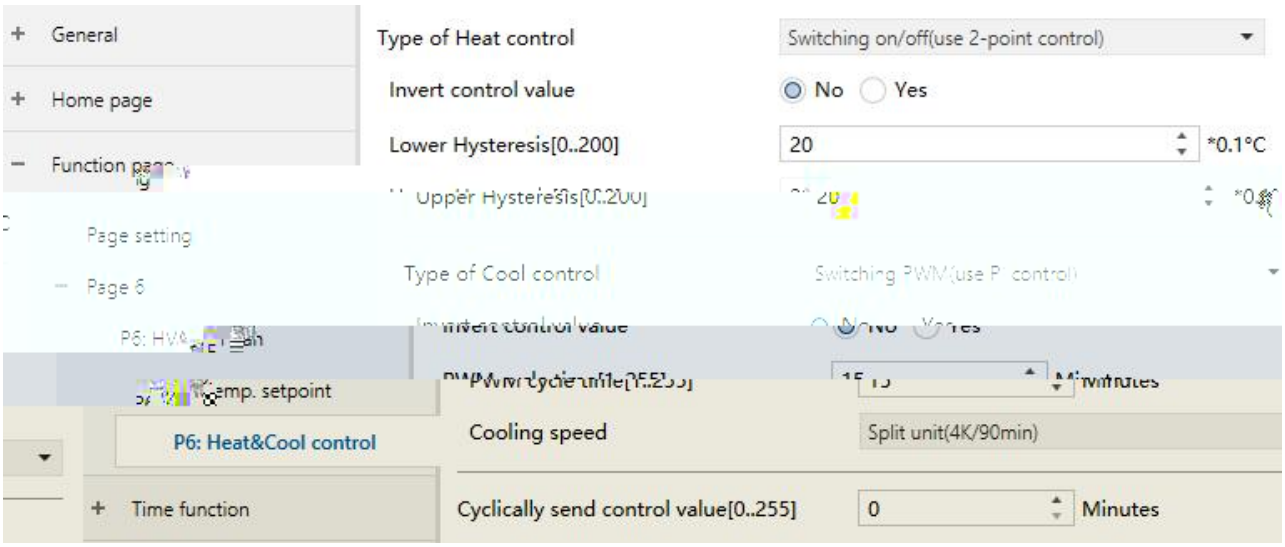
5.3.3 (2) “P x: HVAC Fan_1byte”

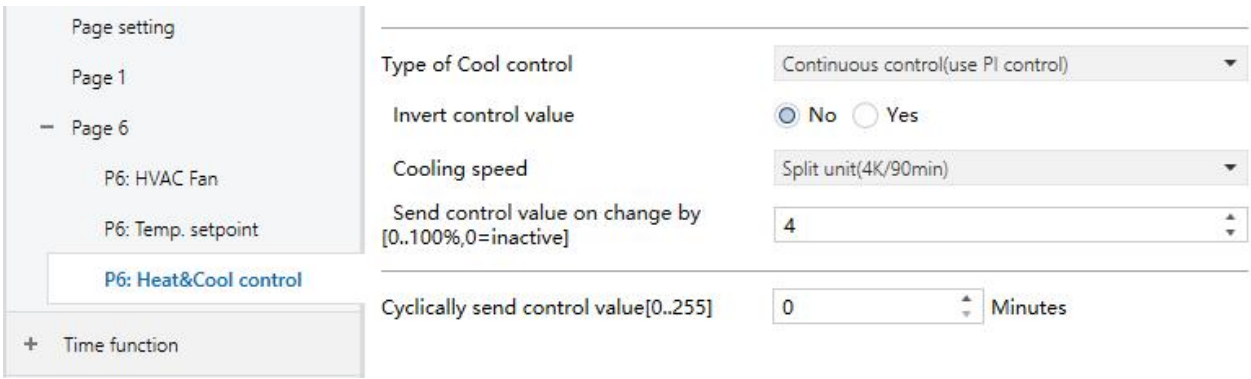


5.3.3 (3) “P x : Temp. Setpoint_Relative”



5.3.3 (4) “P x: Temp. Setpoint_Absolute”





5.3.3 (5) “P x: Heat&Cool control”

"Temperature reference from"

HVAC k

Internal sensor

External sensor

Internal and External sensor combination

"General sensor" k

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

k **0...255**

-- **"Read external sensor after restart"**

No

Yes

No k

Yes k

-- **"Combination ratio"**

HVAC k

k

10% Internal to 90% External

20% Internal to 80% External

...

80% Internal to 20% External

90% Internal to 10% External

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

= Ô40% + Ô60% HVAC

k

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

“Power on/off status after download ”

HVAC k

Off

On

“Power on/off status after power on”

HVAC k

On

Off

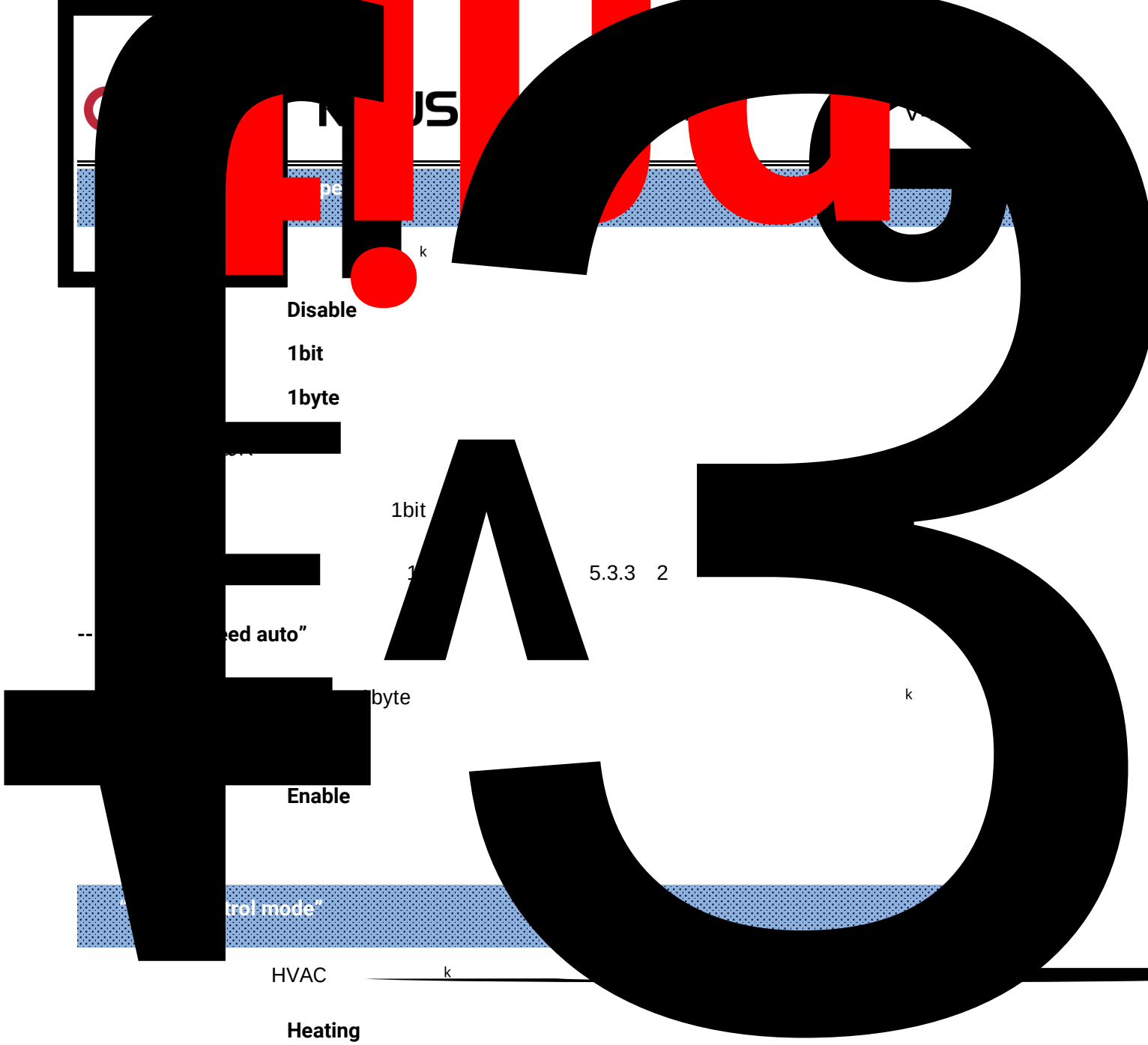
As before power off or reset

On HVAC

Off

As before power off or reset HVAC

k



Disable

1bit

1byte

1bit

1 5.3.3 2

-- ed auto”

byte k

Enable

“ trol mode”

HVAC k

Heating

Cooling

Heating and Cooling

Heating and Cooling k

As before power off or reset

k

k

-- **“HVAC control system”**

HVAC k

2 pipes system

4 pipes system

2 pipes system: k

4 pipes system:

k

“HVAC operation mode”

HVAC k

Disable

Enable

Enable k

-- **“Operating mode switchover”**

k

4x1bit

1byte

1bit 4 1bit k HVAC Output--Comfort mode ! HVAC Output--Economy mode ! HVAC Output--standby mode HVAC Output--Frost/Heat protection mode k “1” “0” k

1byte “HVAC Output --HVAC mode” “1” ! “2” ! “3” ! “4” k

-- **“Operating mode status”**

k

4x1bit

1byte

1bit 4 1bit ON OFF k

HVAC Input--Comfort mode ! HVAC Input--Economy mode

! HVAC Input--Frost/Heat protection mode HVAC Input--standby mode k

0 k

1byte 1 ! 2 ! 3 ! 4

k

-- **“Controller status after restart”**

k

Standby mode

Comfort mode

Economy mode

As before power off or reset

“As before power off or reset” V50 KNX V0.3.5

V50 V0.3.4 V40 V40 V0.1.5

k

KNX “ --> ” k

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

k **0..255**

0

1-255

k

-- **Basic setpoint temperature [ ]**

HVAC k

10

10.5

...

35

Setpoint adjustment k

Min. /Max. set temperature [5..40]

k k

k

1byte **5.3.3 2** k

Output value for fan speed

Output value for Fan speed off/low/medium/high

1byte k **0..255**

Status feedback for fan speed

Status value for Fan speed off/low/medium/high

1byte k

k **0..255**

Setpoint method for operating mode

HVAC k

Relative

Absolute

Relative k

Absolute k

HVAC **5.3.3 3** k

Basic setpoint temperature [ ]

k

10
10.5
..
35

Setpoint adjustment k

Reduced heating in standby mode [0..10]

Increased cooling in standby mode [0..10]

k **0...10 [ ]**

Heating

Cooling k

Reduced heating during economy mode [0..10]

Increased cooling during economy mode [0..10]

k **0...10 [ ]**

Heating

Cooling k

Actual Temp. threshold in frost protection[5..10] (for heating)

k **5...10 [ ]**

k

Actual Temp. threshold in heat protection[30..40] (for cooling)

k **30...40 [ ]**

k

HVAC **5.3.3 4** k

Setpoint Temp. in comfort mode [5..40]

Setpoint Temp. in standby mode [5..40]

Setpoint Temp. in economy mode [5..40]

Setpoint Temp. in frost protection mode [5..40] **(for heating)**

Setpoint Temp. in heat protection mode [5..40] **(for cooling)**

k **5..40**

Type of Heat/Cool control

/ 5.3.3 5

Switching on/off (use 2-point control)

Switching PWM (use PI control) **PWM**

Continuous control (use PI control)

-- **Invert control value**

k

No

Yes

Yes k

(2 point control)

-- **Lower Hysteresis [0..200]*0.1**

-- **Upper Hysteresis [0..200]*0.1**

HVAC k **0..200**

T > **+**

T < **-** k

1 2 22 T 24

T 21 T 21~24 k

T < -

T > + k

1, 2, 26, T 25,

T 28, T 28~25, k

1.

2. k

5.3.3 6 ( )

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/ 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]*0.1, (P value)**

-- **Reset time[0..255]min (I value)**

Heating /Cooling speed User defined PI PI k

-- **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	--

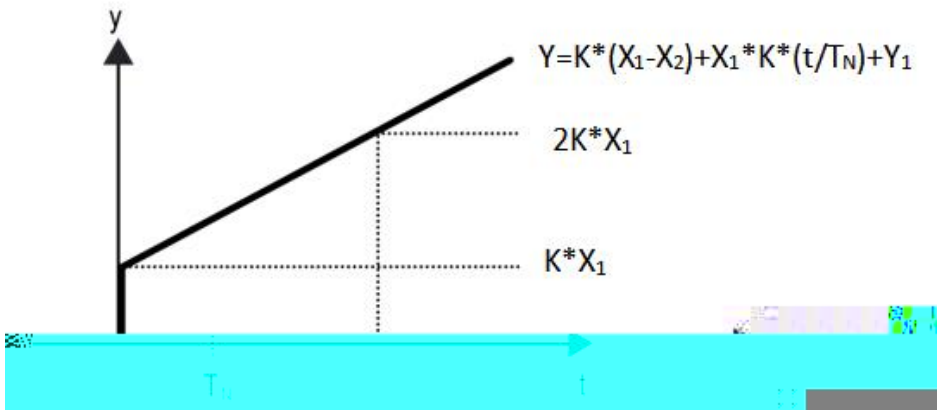
3

“Heating/Cooling speed” “User defined” P

I k PI

k

k 0 k



5.3.3 7 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:	

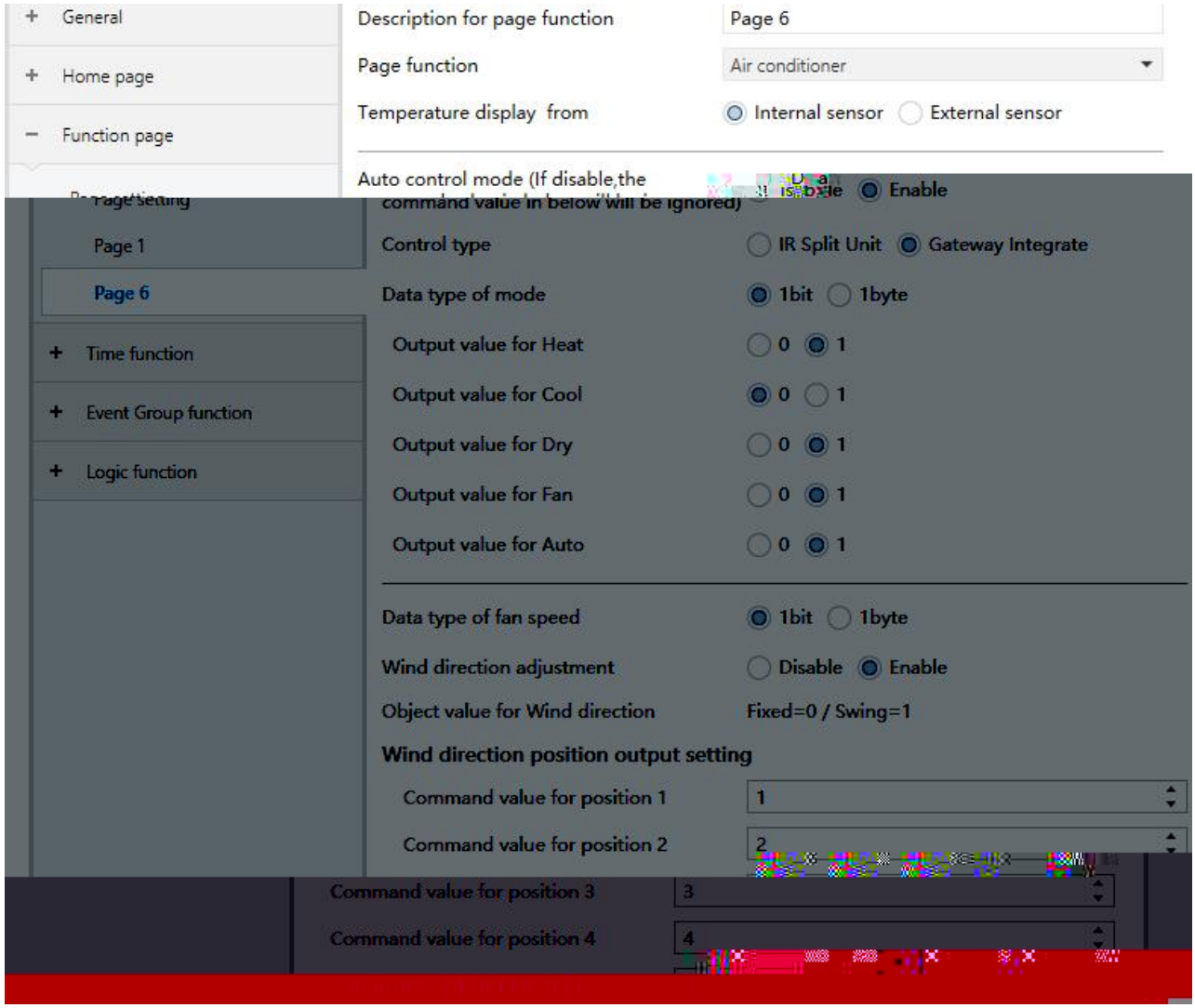
5.3.4. “Page x-- Air conditioner”

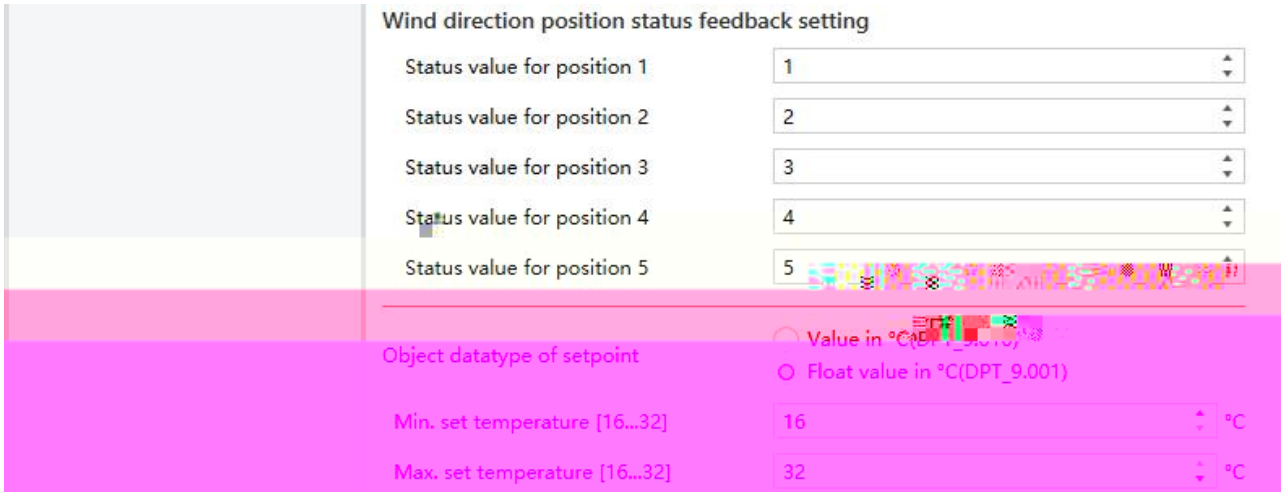
“Page x-- Air conditioner” 5.3.4

IR Split Unit Gateway Integrate k

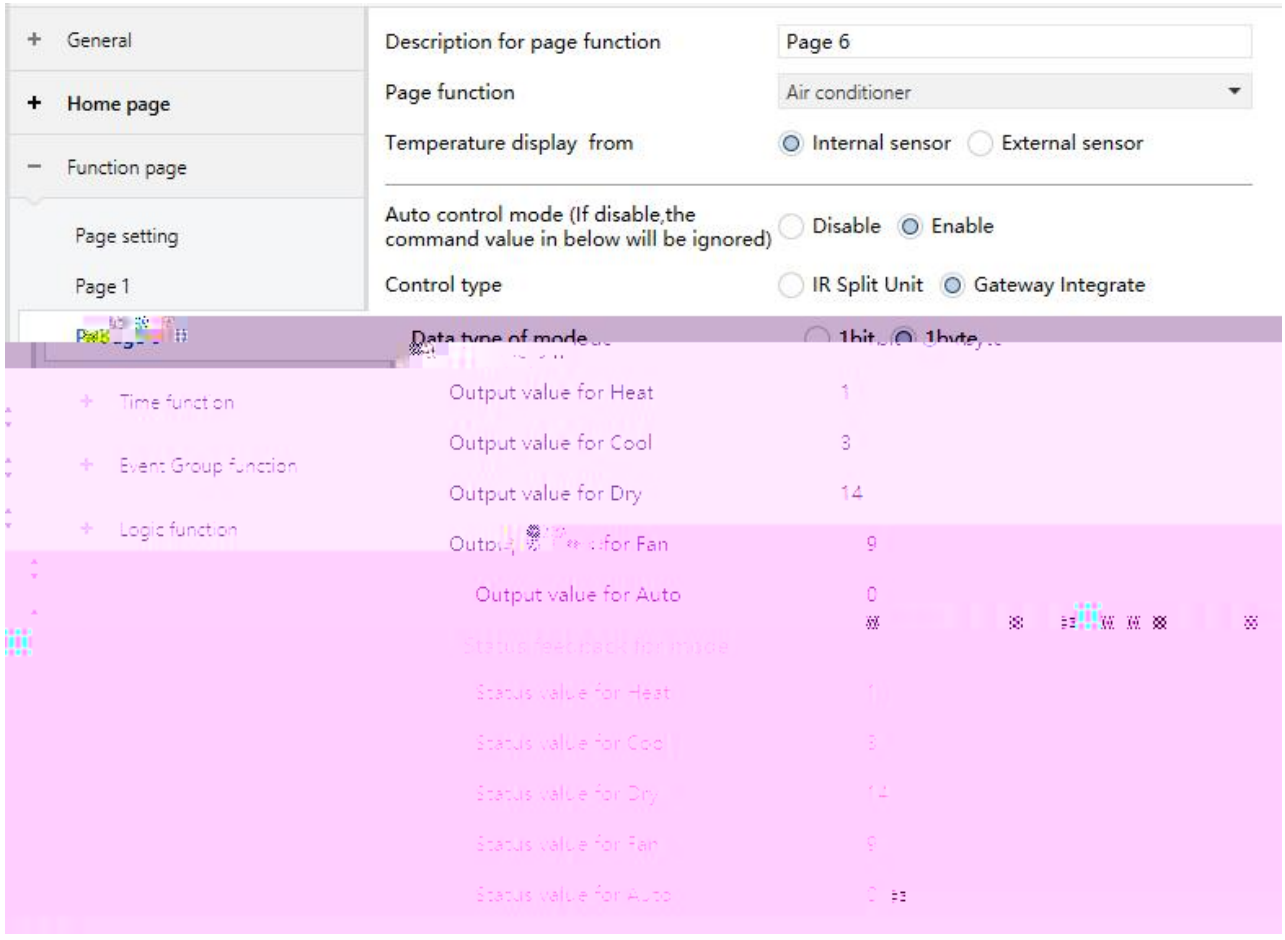
1bit 1byte k

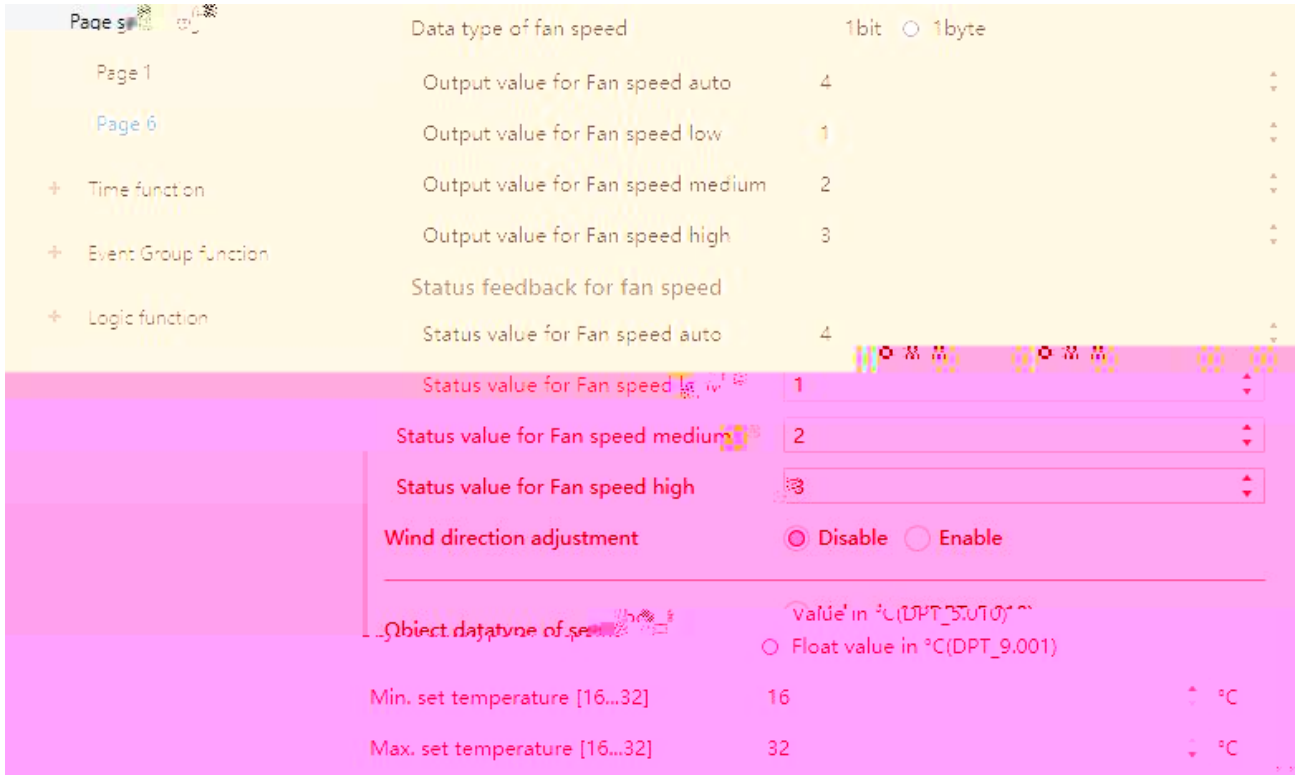
IR 1byte k





5.3.4 (1) “Page x -- Air conditioner” (Gateway Integrate _ 1bit)





5.3.4 (2) “Page x -- Air conditioner” (Gateway Integrate _1byte)

“Temperature display from”

k

Internal sensor

External sensor

HVAC **5.3.3**

k

“Auto control mode(if disable,the command value in below will be ignored)”

k

Disable

Enable

Disable:

Enable: k

k

"Control type"

k

IR Split Unit

Gateway Integrate

k 5.3.4 k

"Data type of mode"

k

1bit

1byte

-- "Output value for Heat/Cool/Dry/Fan/Auto"

"1byte" "1bit" k

0..255

0/1

Status feedback for mode

"1byte" **k**

-- "Status value for Heat/Cool/Dry/Fan/Auto"

k

0..255

"Data type of fan speed"

k

1bit

1byte

-- **“Output value for fan speed auto/low/medium/high”**

“1byte” k **0..255**

Status feedback for fan speed

“1byte” **k**

-- **“Status value for fan speed auto/low/medium/high”**

k **0..255**

“Wind direction adjustment”

k

Disable

Enable

Enable k

-- **“Object value for Wind direction”**

k “Wind direction fixed/swing, In/Out” 0

1 k

5

Wind direction position output setting

Wind direction position, Out **k**

-- **“Command value for position 1/2/3/4/5”**

5 k **0..255**

Wind direction position status feedback setting

k

-- **“Status value for position 1/2/3/4/5”**

k

0..255

"Object datatype of setpoint"

k

Value in ℃(DPT_5.010)

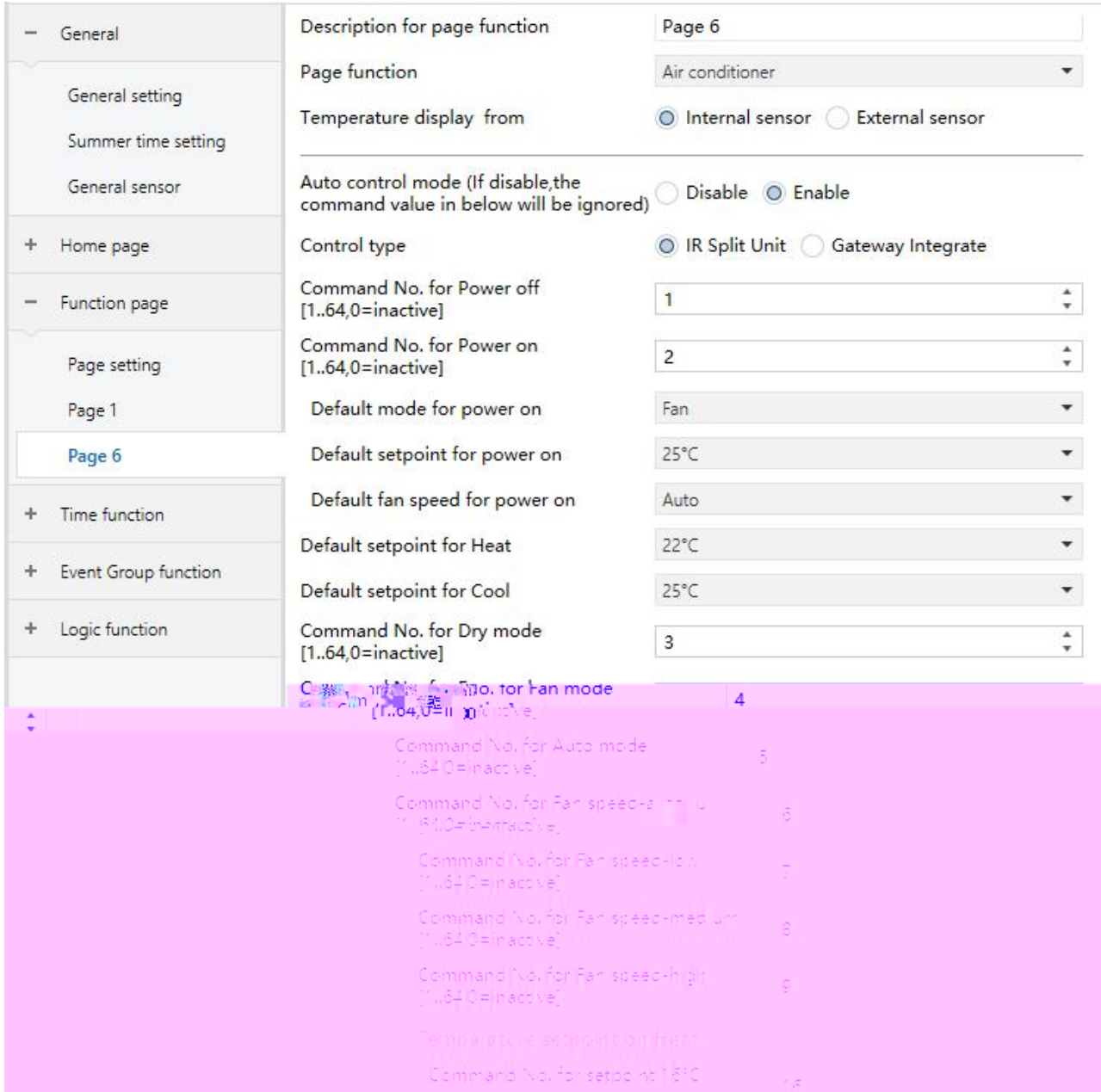
Float value in ℃(DPT_9.001)

"Min. /Max. set temperature [16..32]℃"

k k

k

IR



5.3.4 (3) “Air conditioner” IR Split Unit

k

-1 k **5.3.4(3)** k

"Command No. for power on (1~64, 0=inactive)"

"IR Split unit command,Out" k **0..64, 0=inactive**

k

/ k

k

-- **"Default mode for power on"**

k

Heat

Cool

Dry

Fan

Auto

-- **"Default setpoint for power on"**

k

16℃

...

32℃

-- **"Default fan speed for power on"**

k

Auto

Low

Medium

High

-- **"Default setpoint for heat/cool"**

/ k

16℃

...

32℃

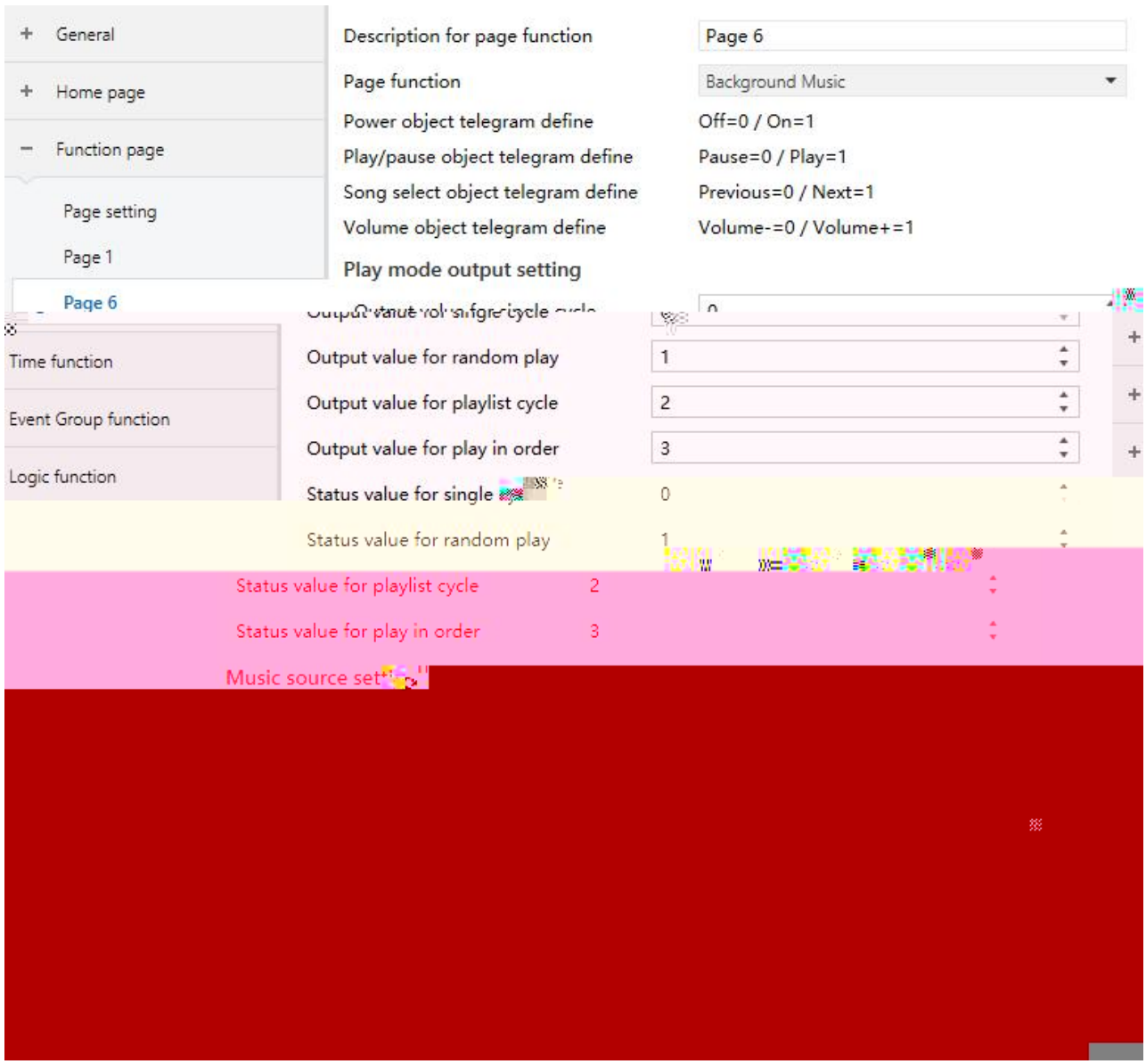
/ k

5.3.5. “Page x-- Background Music”

“Background Music” 5.3.5 k

k / / /

k



KNX/EIB KNX V40&V50

5.3.6.

"Object type"

RGB RGBW k

RGB

1x3byte	**3byte**	**RGB**
3x1byte	**1byte**	**RGB**

RGBW

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

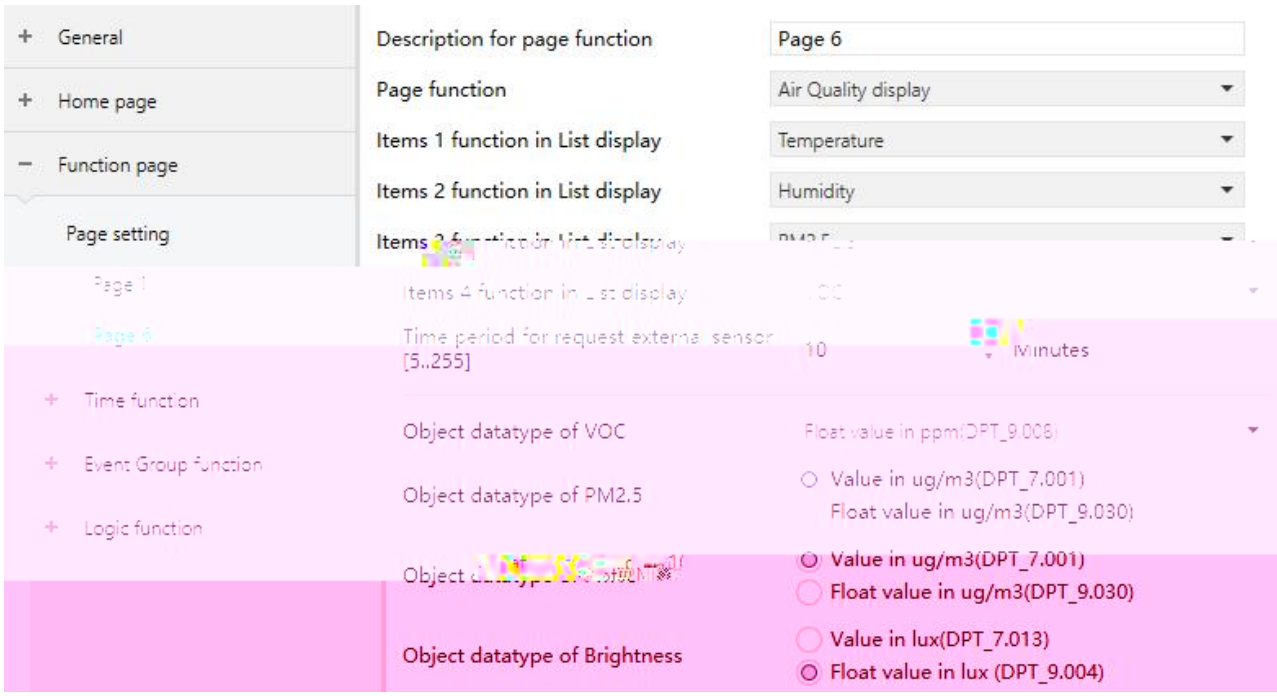
RGBW+Color Temperature

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

5.3.7. “Page x-- Air Quality display”

“Page x--Air Quality display” 5.3.7

AQI ! ! ! PM2.5 ! PM10 ! VOC ! CO_2 ! k 4 k



5.3.7 “Page x -- Air Quality display”

“Items x(x=1..4) function in List display”

4 k

Disable

Temperature

Humidity

PM2.5 **2.5**

PM10 **10**

CO2

VOC

AQI

Brightness

Wind speed

k

k

: -40~40℃

: 0~100%

PM2.5: 0~999ug/m3

PM10: 0~999ug/m3

CO2: 0~4000ppm

VOC: 0~9.99mg/m3 0~4000ppm

AQI: 0~500

0~5000lux

0~50m/s

Time period for request external sensor [5..255]min

k **5...255**

Object datatype of VOC

VOC k

Value in ug/m3(DPT_7.001)

Float value in ug/m3(DPT_9.030)

Float value in ppm(DPT_9.008)

Object datatype of PM2.5

PM2.5 k

Value in ug/m3(DPT_7.001)

Float value in ug/m3(DPT_9.030)

Object datatype of PM10

PM10 k

Value in ug/m3(DPT_7.001)

Float value in ug/m3(DPT_9.030)

Object datatype of Brightness

Brightness k

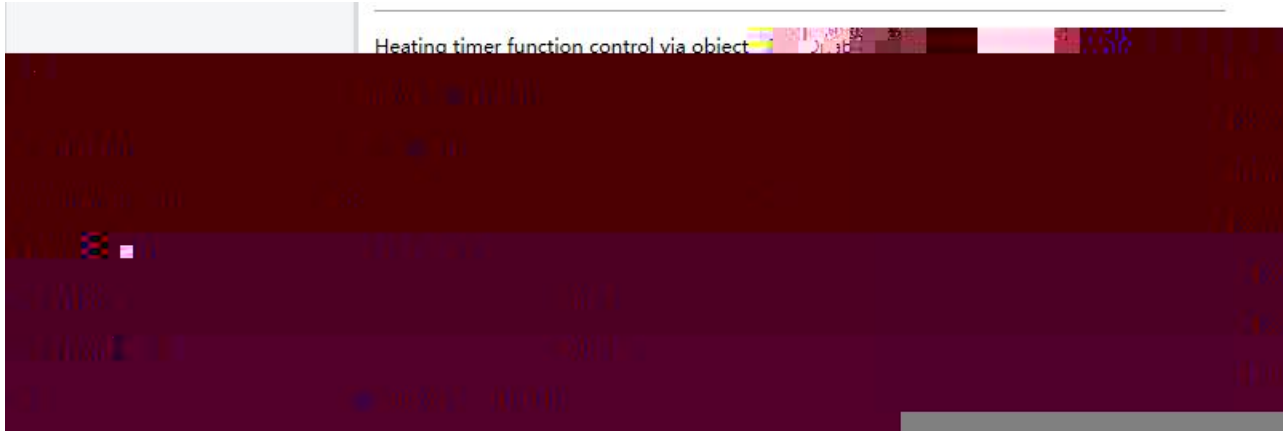
Value in lux(DPT_7.013)

Float value in lux(DPT_9.004)

5.3.8. “Page x-- Floor heating”

“Page x--Floor heating” 5.3.8 k

5.3.8 “Page x -- Floor heating”



5.3.8 “Page x -- Floor heating”

“Temperature reference from”

k

Internal sensor

External sensor

Internal and External sensor combination

HVAC **5.3.3** k

”Power on/off status after download ”

k

Off

On

”Power on/off status after power on”

k

On

Off

As before power off or reset

On

Off !

As before power off or reset

k

"Default set temperature[32..64]*0.5℃"

k **32..64**

"Min./Max. set temperature[16..32]℃"

k k

k **16..32**

"Temperature control method"

Heating on/off (use 2-point control)

Heating PWM (use PI control) **PWM**

Heating continuous control (use PI control)

"Temperature control method" **"Heating on/off (use 2-point control)"** k

k

-- **"Object value of Heating on/off"**

/ k

Heat on=1, Heat off=0

Heat on=0, Heat off=1

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

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

k **0..200**

T > +

T < - k

1, 2, 16, T 18,

T 15, T 15~18, k

“Temperature control method” “Heating PWM (use PI control)” “Heating continuous control (use PI control)” **k**

PWM k

k

-- **"Invert control value”**

k

No

Yes

Yes k

-- **“PWM cycle time [1..255] min”**

Heating PWM (use PI control)

10min, 80%

8min 2min /

k **1...255**

-- **“Heating speed”**

PI k k

Hot water heating (5K/150min)

Underfloor heating (5K/240 min)

Electrical heating (4K/100min)

User defined

-- **“Proportional range[10..100]*0.1, ”(P value)**

-- **“Reset time[0..255]min”(I value)**

“Heating speed” “User defined” PI PI k

PI 5.3.3 k

Cyclically send control value [0..255]min

k **0..255**

“Scene function”

5 k

Disable

Enable

-- “x->Assign scene NO. [1..64,0 inactive], x=1~5”

k **0..64 0 inactive**

-- “Power on/off status”

x k

Off

On

-- “Set temperature[32..64]*0.5℃”

On x k **32..64**

“Heating timer function control via object”

8 k

Disable

Disable=0/Enable=1 0 1

Disable=1/Enable=0 1 0

/ k

/ k

k

"Timer x, x=1~8"

x k

Disable

Enable

-- **"Power on/off status"**

x k

Off

On

-- **"Set temperature [32..64]*0.5℃"**

On x k **32..64**

-- **"Execute in weekday/at hours(h)/at minutes(min)"**

x x k

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

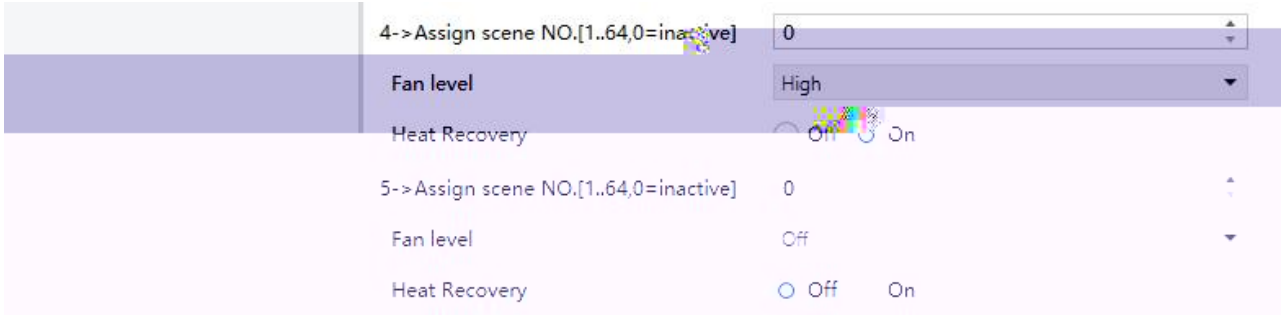
Monday-Friday

Saturday-Sunday

Monday-Sunday

0..23

0..5



5.3.9 “Page x -- Ventilation system”

“Power on/off status after download”

k

Off

On

“Power on/off status after power on”

k

On

Off

As before power

"Data type of fan speed"

k

1bit

1byte

-- **"Output value for Fan speed off/low/medium/high"**

"1byte" k **0..255**

Status feedback for fan speed

"1byte" **k**

-- **"Status value for Fan speed off/low/medium/high"**

k **0..255**

-- **"Object value for Fan speed off/low/medium/high"**

"1bit" 1bit k

No.1=0, No.2=0, No.3=0

No.1=1, No.2=0, No.3=0

No.1=0, No.2=1, No.3=0

No.1=1, No.2=1, No.3=0

No.1=0, No.2=0, No.3=1

No.1=1, No.2=0, No.3=1

No.1=0, No.2=1, No.3=1

No.1=1, No.2=1, No.3=1

-- **"Delay between fan speed switch [0..100]*50ms"**

k **0…100**

k

0 k

"Heat Recovery function"

k

Disable

Disable=0/Enable=1 0 1

Disable=1/Enable=0 1 0

k

k

"Filter timer counter"

k

Disable

Enable

k

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

k **100..10000**

k

"Filter timer reset, In" k

"Filter timer counter, In/Out"

k

"Auto. operation function"

k

Disable

Enable

"Scene function"

5 k

Disable

Enable

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

k 0..64 0 inactive

-- "Fan level"

x k

Off

Low

Medium

High

-- "Heat Recovery"

x k

Off

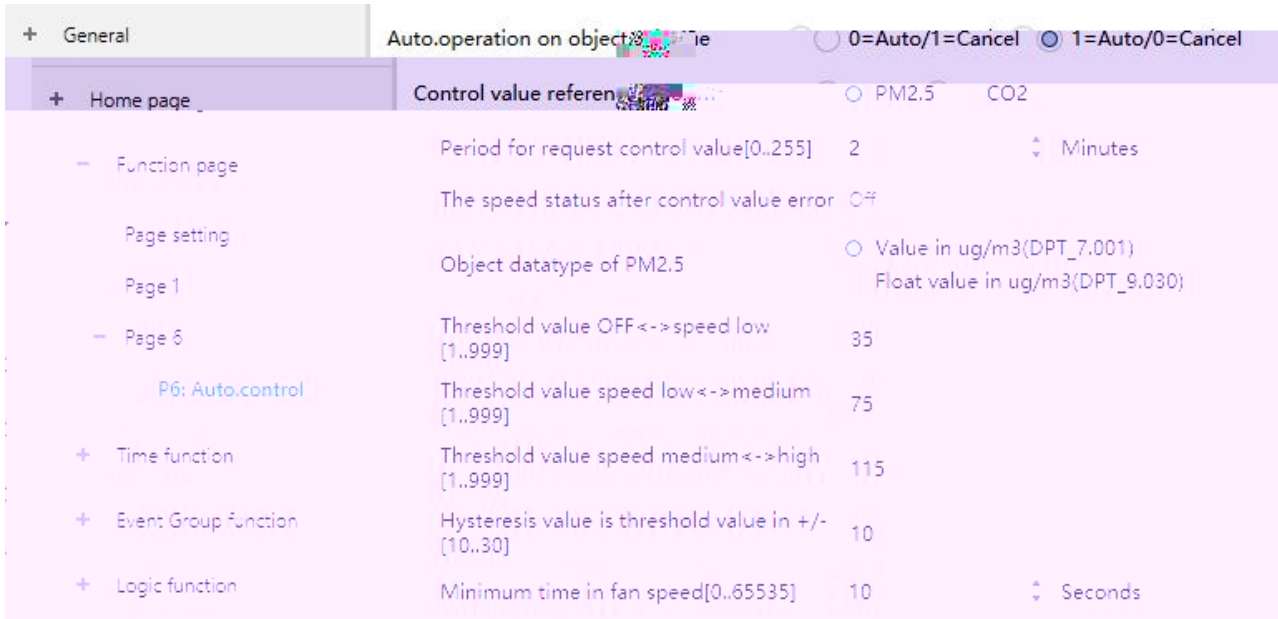
On

k

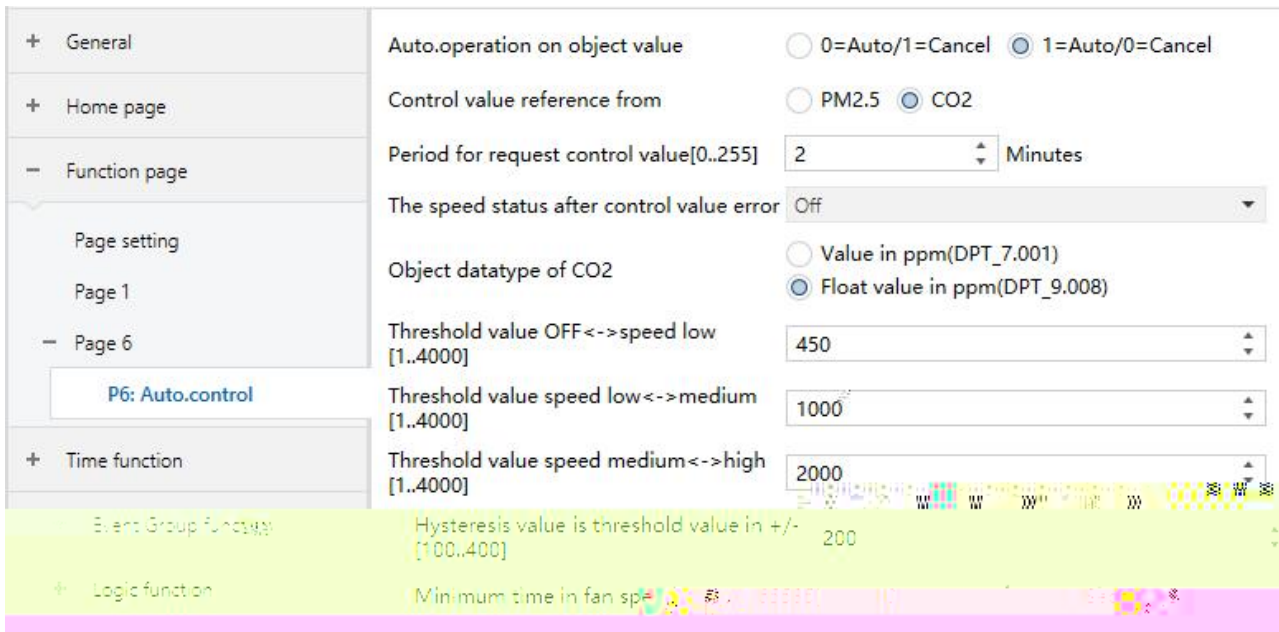
5.3.9.1. Px Auto. Control

k

k :



5.3.9 (2) “Px: Auto. Control_PM2.5”



5.3.9 (3) “Px: Auto. Control_CO2”

"Auto. operation on object value"

k

0=Auto/1=Cancel

1=Auto/0=Cancel

0=Auto/1=Cancel "Automatic function, In/Out" "0"

"1" ;

1=Auto/0=Cancel "Automatic function, In/Out" "1"

"0" k

k

"Control value reference from"

k

PM2.5

CO2

"Period for request control value [0..255] Min"

k **0...255**

"The speed status when the control value error"

k

Off

Low

Medium

High

k

"Object datatype of PM2.5"

PM2.5 k PM2.5 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

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

1...999/1...4000

k

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

k

1...999/1...4000

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

k

1...999/1...4000

k

→OFF <-> → <-> → <-> k

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

k

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

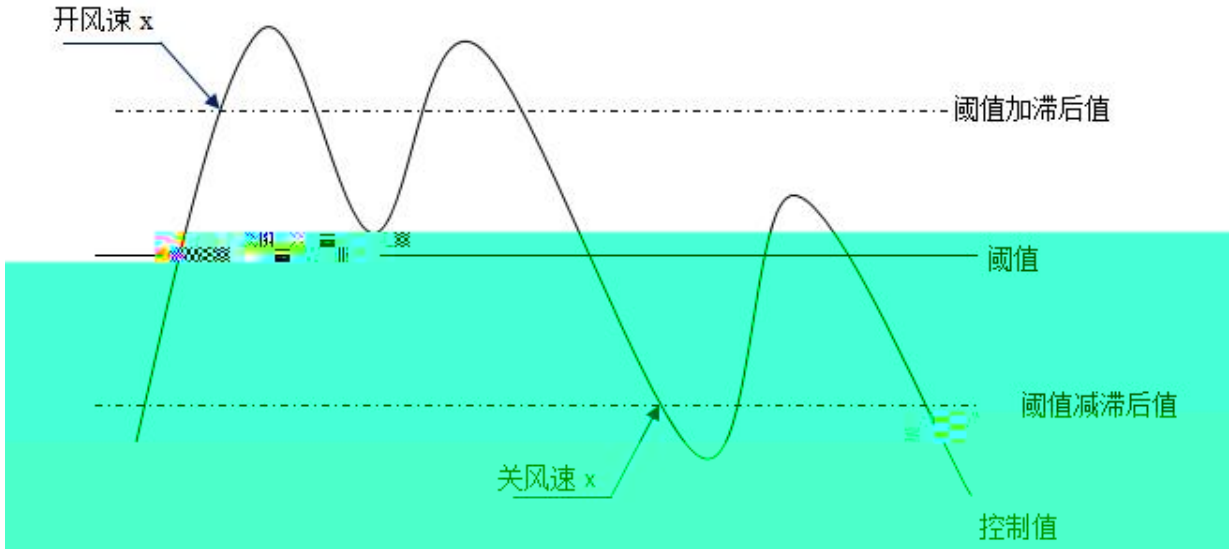
k

10..30/100..400

PM2.5 10 35 45 + 25

- 25~45 k

25 45 k



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

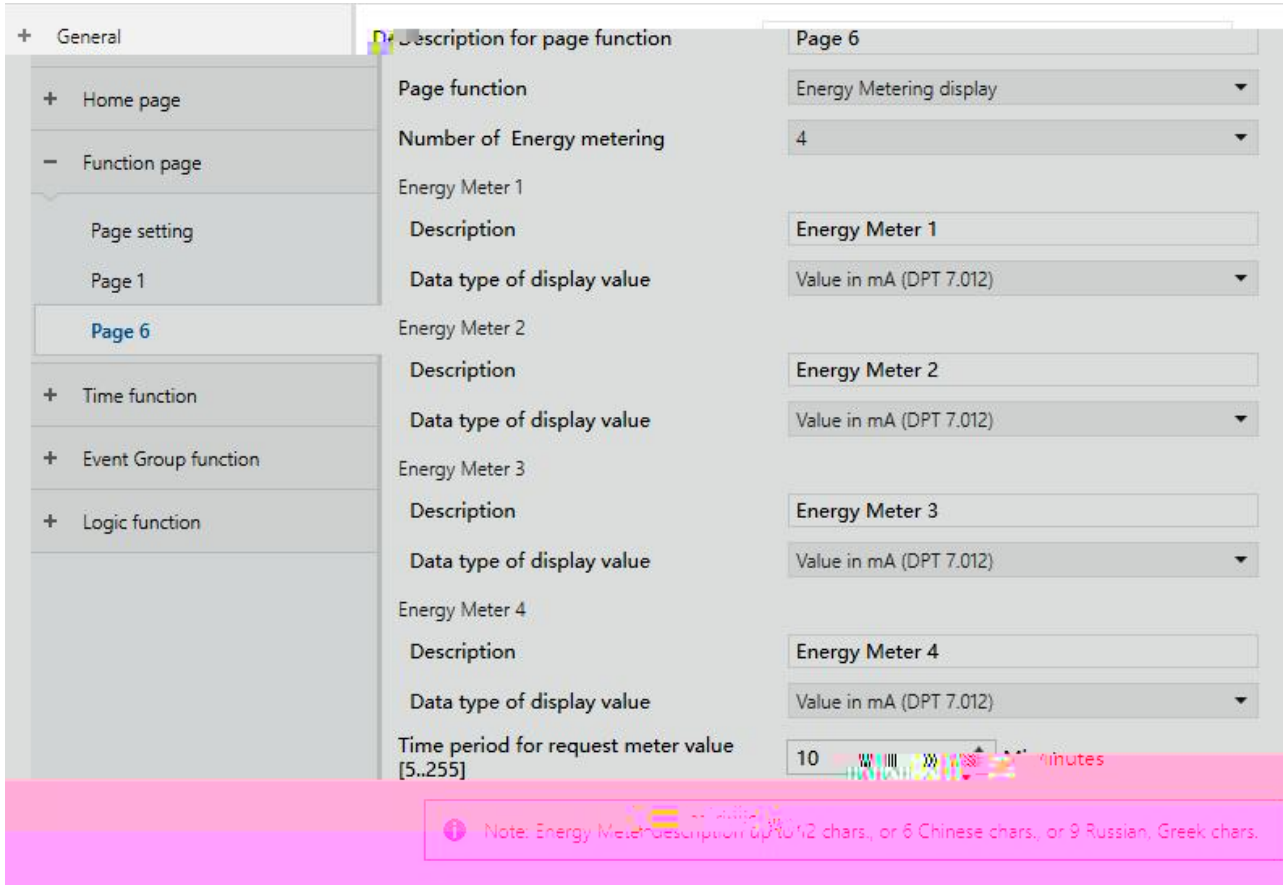
0

-- "Minimum time ie

5.3.10. “Page x-- Energy Metering display”

“Energy Metering display” 5.3.10

! ! k 8 k



5.3.10 “Energy Metering display”

“Number of Energy metering”

k **1/2/3/4/5/6/7/8**

8 k

Energy Meter x[x=1..8]

-- “Description”

k 18 6 k

-- “Data type of display value”

k

Value in mA(DPT 7.012) **mA**

Float value in mA(DPT 9.021) **mA**

Float value in A(DPT 14.019) **A**

Float value in mV(DPT 9.020) **mV**

Float value in V(DPT 14.027) **V**

Float value in W(DPT 14.056) **W**

Float value in kW(DPT 9.024) **kW**

Value in Wh(DPT 13.010) **Wh**

Value in kWh(DPT 13.013) **kWh**

"Time period for request meter value[5..255]Min"

k **5...255**

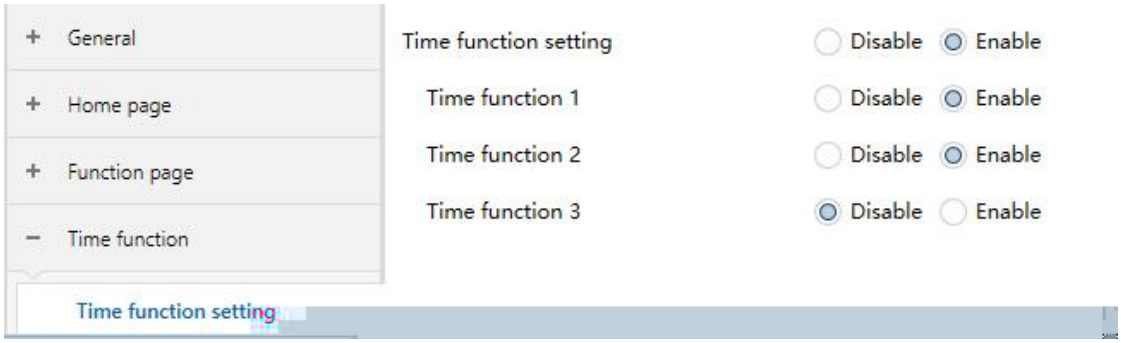
Note:Energy Meter description up to 12chars.,or 6 Chinese chars.,or 9 Russian,Greek chars.

12 **6** **9** k

5.4. “Time function setting”

“Time function setting” 5.4.1 16 k

V40 k



5.4.1 “Time function setting”

“Time function setting”

k

Disable

Enable

“Time function x x:1~16 ”

x k

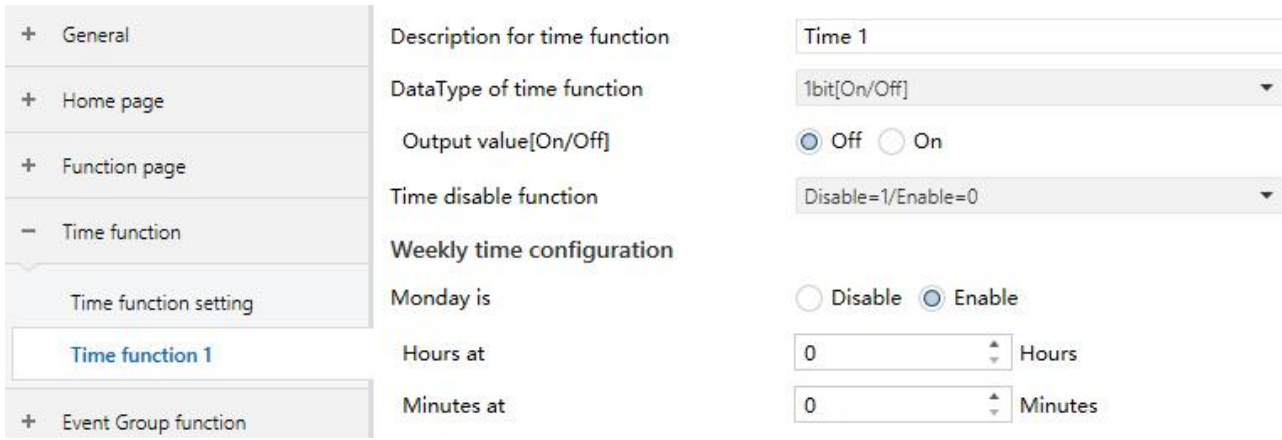
Disable

Enable

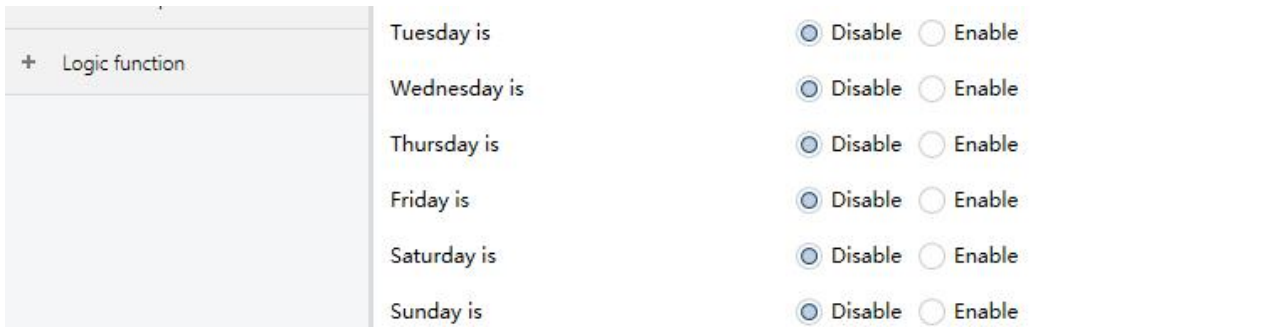
5.4.1. “Time function x”

“Time function x (x=1..16)” 5.4.2 k

, k



5.4.2 “Time function x”



5.4.2 “Time function x”

“Description for time function”

x 12 6 k

“Data Type of time function”

x k

1bit [On/Off]

1byte unsigned value

1byte [scene control]

2byte unsigned value

-- **“Output value/ scene No.[...]”**

x k k

-- **“Time disable function”**

/ k

Disable

Disable=0/Enable=1 0 1

Disable=1/Enable=0 1 0

Weekly time configuration

x x k

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

x k

Disable

Enable

-- **“Hours at”/ “Minutes at”**

x k

0..23

0..59

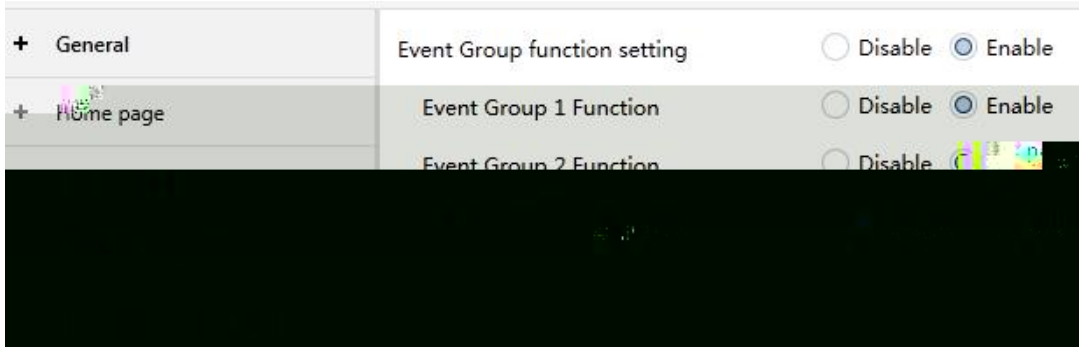
RTC V50 ®5ppm V40 ®20ppm k

5.5. “Event Group function”

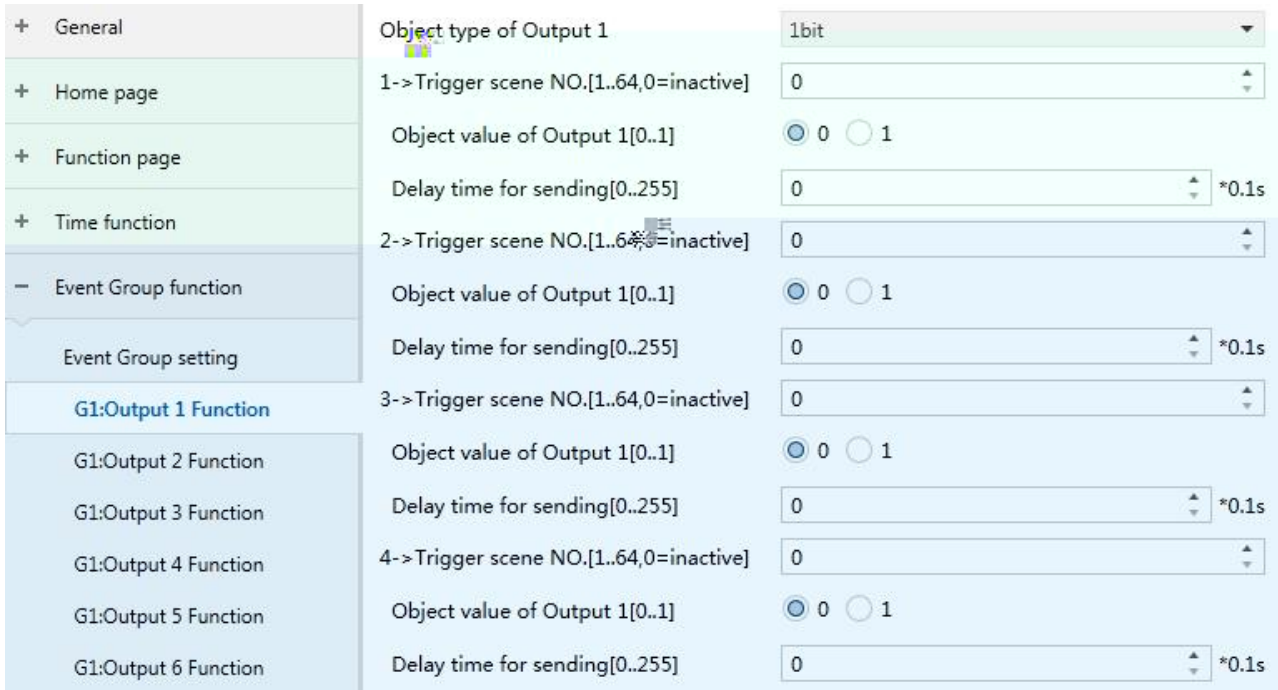
“Event Group function” 5.5.1 8

8 5.5.2 k

V40 k



5.5.1 “Event Group function”



5.5.2 “Gx: Output y Function”

“Event Group x Function (x:1~8)”

x k

Disable

Enable

8 k

8 8

"Object type of Output y (y:1~8)"

x y k

1bit

1byte

2byte

"z->Trigger scene NO.[1~64,0=inactive]" (z:1~8)

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

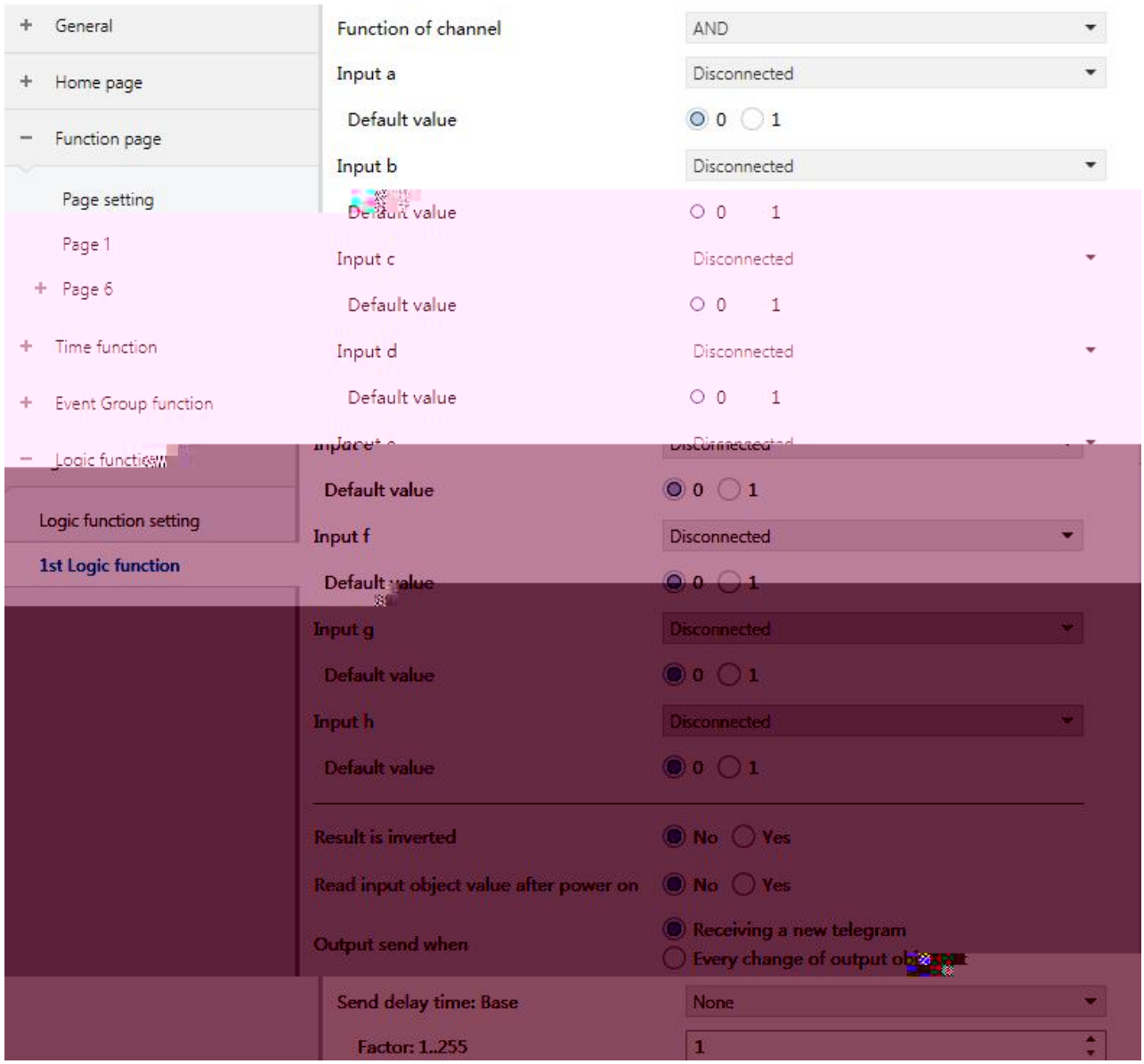
-- "Object value of Output y [0..1/0..255/0..65535]"

y **1bit 0..1/1byte 0..255/ 2byte 0..65535**

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

k : **0..255**

5.6.1. “AND/OR/XOR”



5.6.2 “Logic function_AND/OR/XOR”

“Input a/b/c/d/e/f/g//h”

input x k

Disconnected

Normal

Inverted

Disconnected

Normal

Inverted k k

-- **“Default value”**

input x k

0

1

“Result is inverted”

k

No

Yes

No

Yes k

“Read input object value after power on”

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

...

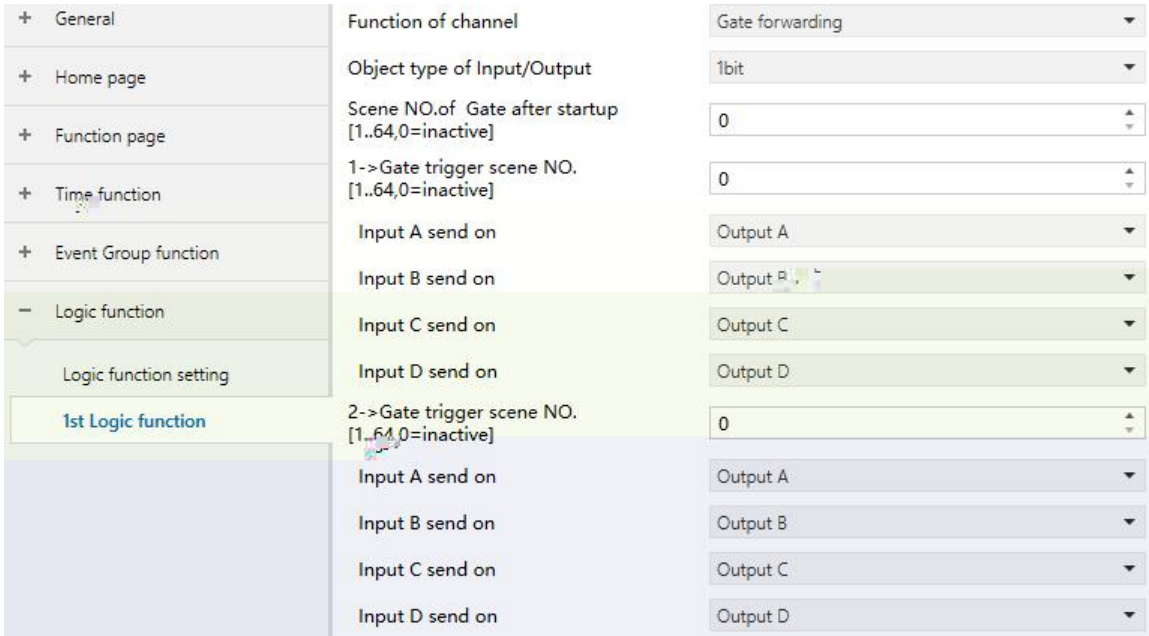
10s

25s

Factor: **1..255**

k Base x Factor Base “None” k

5.6.2. “Gate forwarding”



5.6.3 “Logic function_Gate forwarding”

”Object type of Input/Output”

/ k

1bit

4bit

1byte

”Scene NO. of Gate after startup [1..64, 0=inactive]”

k

1..64 0=

k

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

k 8 **1..64 0=** k

-- “Input A/B/C/D send on”

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

Output A

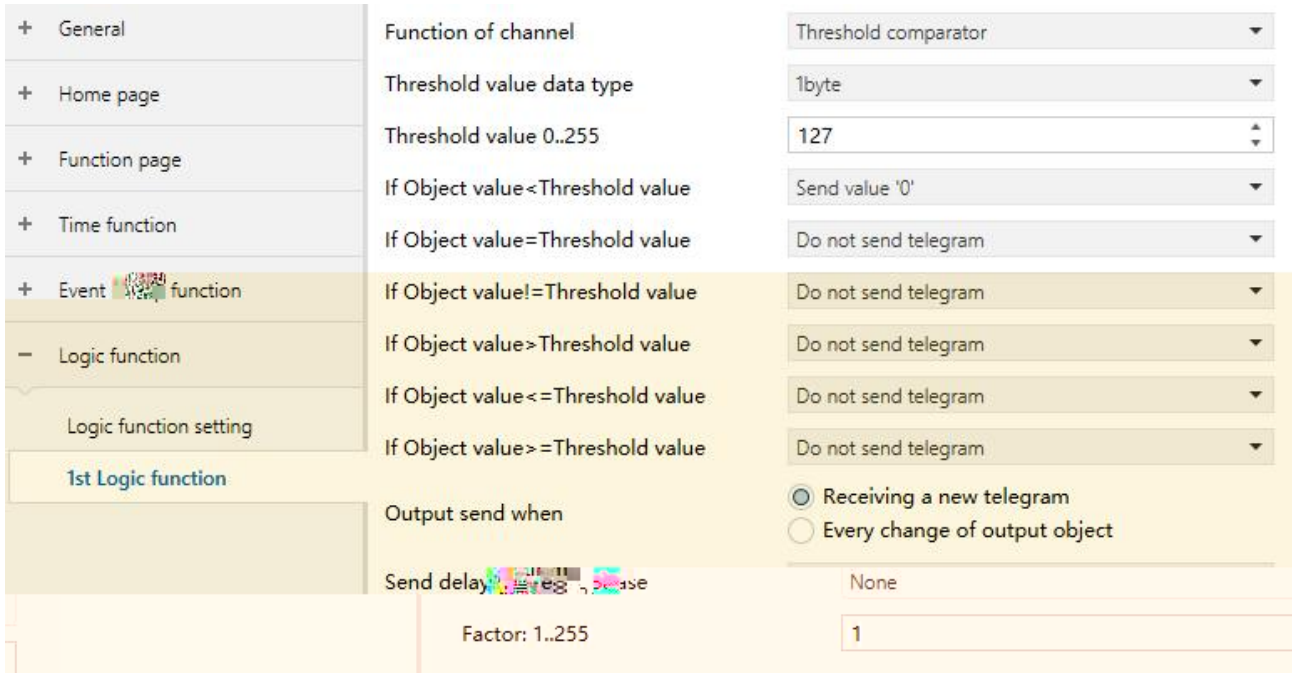
Output B

…

Output B,C,D

k

5.6.3. “Threshold comparator”



5.6.4 “Logic function_Threshold comparator”

“Threshold value data byte”

k

4bit

1byte

2byte

4byte

-- “Threshold value

“If Object value<Threshold value”

“If Object value=Threshold value”

“If Object value!=Threshold value”

“If Object value>Threshold value”

“If Object value<=Threshold value”

“If Object value>=Threshold value”

! ! ! !

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"

Base:

None

0.1s

1s

...

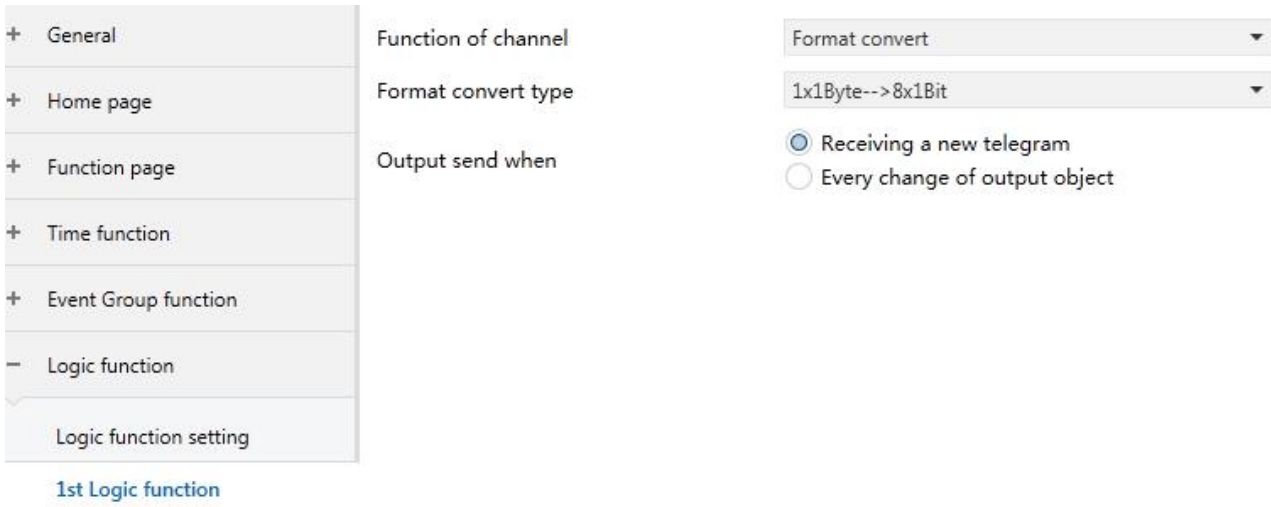
25s

Factor: 1..255

k Base x Factor Base "None"

k

5.6.4. "Format convert"



5.6.5 "Logic function _Format convert"

"Format convert type"

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

k

“C” **“W”** **“R”**

“T” **“U”** **k**

6.1.“General”

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
678	General	Panel block			1 bit	C	-	W	-	-	enable	Low
679	General	In operation			1 bit	C	-	-	T	-	switch	Low
680	General	Date			3 bytes	C	-	W	-	-	date	Low
681	General	Time			3 bytes	C	-	W	-	-	time of day	Low
682	General	Day/Night			1 bit	C	-	W	T	-	day/night	Low
683	General	Screen backlight brightness			1 byte	C	-	W	-	-	percentage (0..100%)	Low
684	General	Colorful strip trigger			1 bit	C	-	W	-	-	trigger	Low
	General	Colorful strip setting			3 bytes	C	-	W	-	-	RGB value 3x(0..255)	
	General	Proximity sense, 1bit value			1 bit	C	-	W	T	-	switch	Low
687	General	Password trigger, 1byte value			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
	General	Summer time status			1 bit	C	R	-	T	-	enable	Low
687	General	Password trigger, 1bit value			1 bit	C	-	-	T	-	switch	Low
687	General	Password trigger, scene NO.			1 byte	C	-	-	T	-	scene number	Low
687	General	Password trigger, 1byte value			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
686	General	Proximity sense, 1bit value			1 bit	C	-	W	T	-	switch	Low
686	General	Proximity sense, 1byte value			1 byte	C	-	W	T	-	counter pulses (0..255)	Low
686	General	Proximity sense, 1byte value			1 byte	C	-	W	T	-	percentage (0..100%)	Low

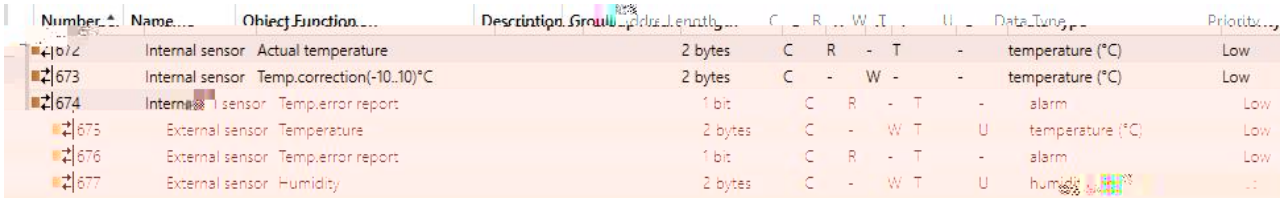
6.1 “General”

					DPT
678	**Panel block**	**General**	**1bit**	**C,W**	**1.003 enable**
k 0 —— 1 ——					
679	**In operation**	**General**	**1bit**	**C,T**	**1.001 switch**
“1” k					
680	**Date**	**General**	**3bytes**	**C,W**	**11.001 date**
k					

681	**Time**	**General**	**3bytes**	**C,W**	**10.001 time of day**
		k			
682	**Day/Night**	**General**	**1bit**	**C,W, T**	**1.024 day/night**
	/ k / k 0 —— 1 ——				
683	**Screen backlight brightness**	**General**	**1byte**	**C,W**	**5.001percentage(0..100%)**
	k 10~100% 10% 10% k “Screen brightness can be changed via bus” “Yes” k				
684	**Colorful strip trigger**	**General**	**1bit**	**C,W**	**1.017 trigger**
	k				
685	**Colorful strip setting**	**General**	**3byte**	**C,W**	**232.600 RGB value 3x(0..255)**
	“Color setting” “Receive a 3byte value” 3byte k				
686	**Proximity sense, 1 bit value** **Proximity sense, scene NO.** **Proximity sense, 1 byte value**	**General**	**1bit** **1byte**	**C,W,T**	**1.001 switch** **17.001 scene number** **5.010 counter pulses(0..255)** **5.001 percentage(0..100%)**
	k k				
687	**Password trigger, 1bit value** **Password trigger, scene NO.** **Password trigger, 1 byte value**	**General**	**1bit** **1byte**	**C,T**	**1.001 switch** **17.001 scene number** **5.010 counter pulses(0..255)** **5.001 percentage(0..100%)**
	k k				
688	**Summer time status**	**General**	**1bit**	**C,R,T**	**1.003enable**
	k 1 —— 0 ——				

6.1 “General ”

6.2.“General sensor”

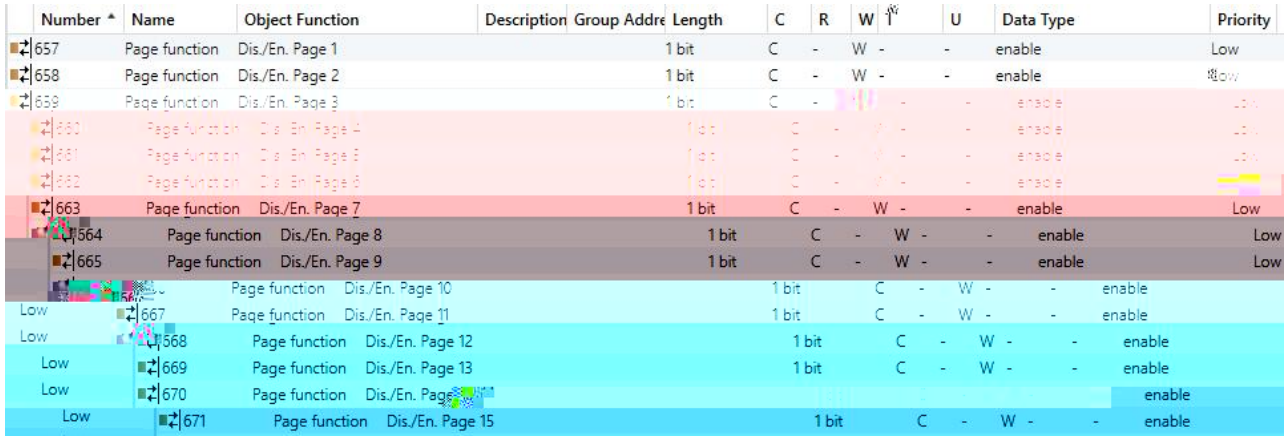


6.2 “General sensor”

					DPT
672	**Actual temperature**	**Internal sensor**	**2Bytes**	**C,R,T**	**9.001 temperature (℃)**
				k	-50~99.8
673	**Temp.correction(-10...10)℃**	**Internal sensor**	**2Bytes**	**C,W**	**9.001 temperature (℃)**
				k	
674	**Temp.error report**	**Internal sensor**	**1bit**	**C,R,T**	**1.005 alarm**
				k	
675	**Temperature**	**External sensor**	**2bytes**	**C,W,T,U**	**9.001 temperature (℃)**
				k	-50~99.8
676	**Temp.error report**	**External sensor**	**1bit**	**C,R,T**	**1.005alarm**
				k	
677	**Humidity**	**External sensor**	**2bytes**	**C,W,T,U**	**9.007 humidity (%)**
				k	0~100%

6.2 “General sensor”

6.3.



Number	Name	Object Function	Description	Group Addre	Length	C	R	W	T	U	Data Type	Priority
657	Page function	Dis./En. Page 1			1 bit	C	-	W	-	-	enable	Low
658	Page function	Dis./En. Page 2			1 bit	C	-	W	-	-	enable	Low
659	Page function	Dis./En. Page 3			1 bit	C	-	W	-	-	enable	Low
660	Page function	Dis./En. Page 4			1 bit	C	-	W	-	-	enable	Low
661	Page function	Dis./En. Page 5			1 bit	C	-	W	-	-	enable	Low
662	Page function	Dis./En. Page 6			1 bit	C	-	W	-	-	enable	Low
663	Page function	Dis./En. Page 7			1 bit	C	-	W	-	-	enable	Low
664	Page function	Dis./En. Page 8			1 bit	C	-	W	-	-	enable	Low
665	Page function	Dis./En. Page 9			1 bit	C	-	W	-	-	enable	Low
666	Page function	Dis./En. Page 10			1 bit	C	-	W	-	-	enable	Low
667	Page function	Dis./En. Page 11			1 bit	C	-	W	-	-	enable	Low
668	Page function	Dis./En. Page 12			1 bit	C	-	W	-	-	enable	Low
669	Page function	Dis./En. Page 13			1 bit	C	-	W	-	-	enable	Low
670	Page function	Dis./En. Page 14			1 bit	C	-	W	-	-	enable	Low
671	Page function	Dis./En. Page 15			1 bit	C	-	W	-	-	enable	Low

6.3.

					DPT
657..671	**Dis./En. Page 1..15**	**Page function**	**1bit**	**C,W**	**1.003 enable**
/ k k					

6.3.

6.3.1. “Multifunction (Lighting/Blind/Scene/Value send)”

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1	Page 1-Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low
3	Page 1-Icon 1	Switch status			1 bit	C	-	W	T	-	switch	Low

Switch

Number	Name	Object Function	De	Group Addre	Length	C	R	W	T	U	Data Type	Pri
1	Page 1-Icon 1	Switch			1 bit	C	-	-	T	-	switch	Low
2	Page 1-Icon 1	Brightness dimming			1 byte	C	-	-	T	-	percentage (0..100%)	Low
3	Page 1-Icon 1	Brightness status			1 byte	C	-	W	T	U	percentage (0..100%)	Low
4	Page 1-Icon 1	Relative dimming			4 bit	C	-	W	T	-	dimming control	Low

Switch/Dimming

Number	Name	Object Function	De	Group Addre	Length	C	R	W	T	U	Data Type	Priority
1	Page 1-Icon 1	Send 1bit value			1 bit	C	-	-	T	-	switch	Low
2	Page 1-Icon 1	Send 1bit value, long			1 bit	C	-	-	T	-	switch	Low

Value send

Number	Name	Object Function	De	Group Addre	Length	C	R	W	T	U	Data Type	Priority
1	Page 1-Icon 1	Open/Close			1 bit	C	-	W	T	-	open/close	Low
2	Page 1-Icon 1	Stop			1 bit	C	-	-	T	-	step	Low
3	Page 1-Icon 1	Blind position/status			1 byte	C	-	W	T	U	percentage (0..100%)	Low

Open/Close Blind

			/ / k		
1	**Send 1bit/2bit/4bit/ 1byte/2byte value**	**Page x-Icon y**	**1bit on/off** **2bit 0..3** **4bit 0..15** **1byte 0..255** **1byte 0..100%** **2byte -32768..32767** **2byte 0..65535**	**C,T**	**1.001 switch** **2.001 switch control** **3.007 dimming control** **5.010 counter pulses(0..255)** **5.001 percentage(0..100%)** **8.001 pulses difference** **7.001 pulses**
					k k
2	**Send 1bit/2bit/4bit/ 1byte/2byte value, long**	**Page x-Icon y**	**1bit on/off** **2bit 0..3** **4bit 0..15** **1byte 0..255** **1byte 0..100%** **2byte -32768..32767** **2byte 0..65535**	**C,T**	**1.001 switch** **2.001 switch control** **3.007 dimming control** **5.010 counter pulses(0..255)** **5.001 percentage(0..100%)** **8.001 pulses difference** **7.001 pulses**
					k
1	**Open/Close**	**Page x-Icon y**	**1bit**	**C,W, T**	**1.009 open/close**
2	**Stop**	**Page x-Icon y**	**1bit**	**C, T**	**1.007 step**
3	**Blind position/status**	**Page x-Icon y**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
Open/Close Blind k Obj.1 / k 1—— 0—— Obj.2 k 0/1—— Obj.3 k 0...100%					
1	**Up/Down**	**Page x-Icon y**	**1bit**	**C,W, T**	**1.008 up/down**
2	**Stop**	**Page x-Icon y**	**1bit**	**C, T**	**1.007 step**
3	**Blind position/status**	**Page x-Icon y**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

Roller Blind (without slat) k

Obj.1 / k

1——

0——

Obj.2 Obj.3 k

1	**Up/Down**	**Page x-Icon y**	**1bit**	**C, T**	**1.008 up/down**
2	**Stop/Slat adj.**	**Page x-Icon y**	**1bit**	**C, T**	**1.007 step**
3	**Blind position/status**	**Page x-Icon y**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
4	**Slat position/status**	**Page x-Icon y**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**

Venetian Blinds (with slat) k

Obj.1 Obj.3 k

Obj.2 k

1—— /

0—— /

Obj.4

k 0...100%

1	**Open/Close**	**Page x-Icon y**	**1bit**	**C,W, T**	**1.009 open/close**
2	**Stop**	**Page x-Icon y**	**1bit**	**C, T**	**1.007 step**

Blind(open/close/stop) k

Obj.1 / k

1——

0——

Obj.2 k

0/1——

1	**Up/Down**	**Page x-Icon y**	**1bit**	**C, T**	**1.008 up/down**
2	**Stop**	**Page x-Icon y**	**1bit**	**C, T**	**1.007 step**

Blind(up/down/stop) k

Obj.1 / k

1——

0——

Obj.2 k

1	Recall/storage scene No.	Page x-Icon y	1byte	C, T	18.001 scene control
			k 1	0 k	

6.3.1 “Multifunction (Lighting/Blind/Scene/Value send)”

6.3.2. “HVAC”

Number	Name	Object Function	De	Gr	Length	C	R	W	T	U	Data Type	Priority
161	Page 6-HVAC Input	External temperature sensor			2 bytes	C	-	W	T	U	temperature (°C)	Low
162	Page 6-HVAC Input	Setpoint adjustment			2 bytes	C	-	W	-	-	temperature (°C)	Low
163	Page 6-HVAC Input	Switch Heating/Cooling mode			1 bit	C	-	W	-	U	cooling/heating	Low
164	Page 6-HVAC Input	Comfort mode			1 bit	C	-	W	-	-	enable	Low
165	Page 6-HVAC Input	Standby mode			1 bit	C	-	W	-	-	enable	Low
166	Page 6-HVAC Input	Night mode			1 bit	C	-	W	-	-	ena	

179	Page 6-HVAC Output	Heating control value	1 byte	C	-	-	T	-	percentage (0..100%)	Low
180	Page 6-HVAC Output	Cooling control value	1 byte	C	-	-	T	-	percentage (0..100%)	Low
164	Page 6-HVAC Input	HVAC mode	1 byte	C	-	W	-	-	HVAC mode	Low
168	Page 6-HVAC Input	Fan speed	1 byte	C	-	W	-	U	percentage (0..100%)	Low
175	Page 6-HVAC Output	HVAC mode	1 byte	C	R	-	T	-	HVAC mode	Low
179	Page 6-HVAC Output	Heating/cooling control value	1 bit	C	-	-	T	-	switch	Low
181	Page 6-HVAC Output	Fan speed	1 byte	C	-	-	T	-	percentage (0..100%)	Low
179	Page 6-HVAC Output	Heating/cooling control value	1 byte	C	-	-	T	-	percentage (0..100%)	Low

6.3.2 “HVAC”

161	**temperature sensor**	**Page x- HVAC Input**	**2byte**	**C,V**	**9 emperature(℃)**	

k -50~99.8

162	**Setpoint adjustment**	**Page x- HVAC Input**	**2byte**	**C,W**	**9.001 temperature**	℃

HVAC k

HVAC

k

k

HVAC

k

163	**Switch mode**	**Heating/Cooling**	**Page x- HVAC Input**	**1bi**	

166——

167——

“1” k

1byte

0

1

2

3

4

5-255

168	**Fan speed**	**Page x- HVAC Input**	**1byte**	**C,W ,U**	**5.001 percentage(0..100%)**
168	**Fan speed low**	**Page x- HVAC Input**	**1bit**	**C,W ,U**	**1.001 switch**
169	**Fan speed medium**	**Page x- HVAC Input**	**1bit**	**C,W ,U**	**1.001 switch**
170	**Fan speed high**	**Page x- HVAC Input**	**1bit**	**C,W ,U**	**1.001 switch**
171	**Fan speed off**	**Page x- HVAC Input**	**1bit**	**C,W ,U**	**1.001 switch**

4 1bit (168,169,170,171) 1 1byte Fan speed k

1bit

168——

169——

170——

171——

“1” k

0 k

1byte k k

172	**Fan Automatic operation**	**Page x- HVAC Input**	**1bit**	**C,W,U**	**1.003 enable**
k 1—— 0——					
173	**Instantaneous setpoint**	**Page x- HVAC output**	**2bytes**	**C,R,T**	**9.001 temperature(℃)**
k					
174	**Heating/Cooling mode**	**Page x- HVAC output**	**1bit**	**C,R,T**	**1.100 cooling/heating**
k 1—— 0——					
175	**HVAC mode** **Comfort mode**	**Page x- HVAC output**	**1byte** **1bit**	**C,R,T** **C,T**	**20.102 DPT_HVAC Mode** **1.003enable**
176	**Standby mode**	**Page x- HVAC output**	**1bit**	**C,T**	**1.003enable**
177	**Economy mode**	**Page x- HVAC output**	**1bit**	**C,T**	**1.003enable**
178	**Frost/Heat protection mode**	**Page x- HVAC output**	**1bit**	**C,T**	**1.003enable**
k “1byte” 0 1 2 3 4 / 5~255 “1bit” “1” k					
179	**Heating /cooling control value**	**Page x- HVAC output**	**1byte** **1bit**	**C,T**	**5.001 percentage(0..100%)** **1.001 switch**
179	**Heating control value**	**Page x- HVAC output**	**1byte** **1bit**	**C,T**	**5.001 percentage(0..100%)** **1.001 switch**
180	**Cooling control value**	**Page x- HVAC output**	**1byte** **1bit**	**C,T**	**5.001 percentage(0..100%)** **1.001 switch**

6.3.3. “Air conditioner”

Number	Name	Object Function	De	Gr	Length	C	R	W	T	U	Data Type	Priority
161	Page 6-AC	External temperature sensor, In			2 bytes	C	-	W	T	U	temperature (°C)	Low
162	Page 6-AC	Power on/off, Out			1 bit	C	-	-	T	-	switch	Low
163	Page 6-AC	Status of Power, In			1 bit	C	-	W	T	U	switch	Low
164	Page 6-AC	Control mode, Out			1 byte	C	-	-	T	-	HVAC control mode	Low
165	Page 6-AC	Status of control mode, In			1 byte	C	-	W	T	U	HVAC control mode	Low
169	Page 6-AC	Fan speed			1 byte	C	-	-	T	-	percentage (0..100%)	Low
170	Page 6-AC	Stauts of Fan speed, In			1 byte	C	-	W	T	U	percentage (0..100%)	Low
173	Page 6-AC	Wind direction fixed/swing, In/Out			1 bit	C	-	W	T	U	trigger	Low
174	Page 6-AC	Wind direction position, Out			1 byte	C	-	-	T	-	counter	Low
175	Page 6-AC	Status of Wind direction position, In			1 byte	C	-	W	T	U	counter pulses (0..255)	Low
176	Page 6-AC	Temperature setpoint, In/Out			2 bytes	C	-	W	T	U	temperature (°C)	Low

6.3.3 (1) “Air conditioner” Gateway Integrate _1byte

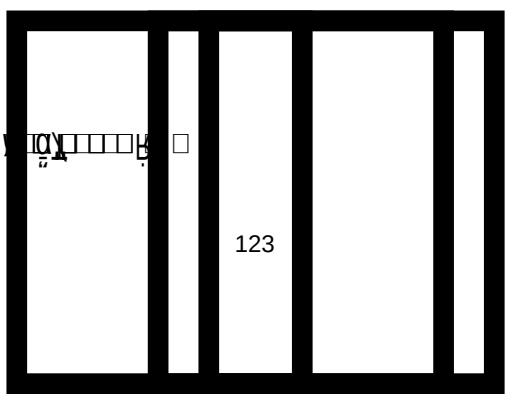
6.3.3 (2) “Air conditioner” Gateway Integrate _1bit

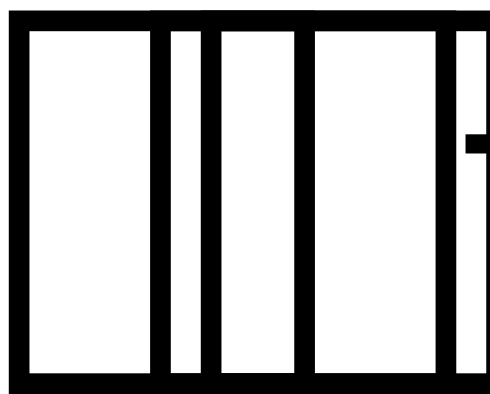
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
161	Page 6-AC	External temperature sensor, In			2 bytes	C	-	W	T	U	temperature (°C)	Low
162	Page 6-AC	IR Split unit command, Out			1 byte	C	-	-	T	-	scene number	Low

6.3.3 (3) “Air conditioner” IR Split Unit

					DPT
161	**External temperature sensor, In**	**Page x-AC**	**2bytes**	**C,W,T,U**	**9.001 temperature(℃)**
					k
162	**Power on/off,Out**	**Page x-AC**	**1bit**	**C,T**	**1.001 switch**
162	**IR Split unit command,Out**	**Page x-AC**	**1byte**	**C,T**	**17.001 scene number**

Power on/off · a Gateway Integrgtwy



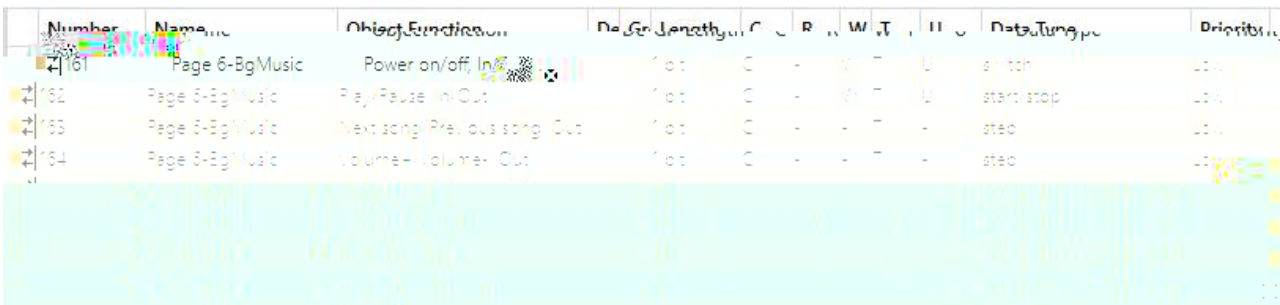


168	**Auto mode,In/Out**	**Page x-AC**	**1bit**	**C,W,T,U**	**1.003 enable**
1bit - k					
169	**Fan speed,Out**	**Page x-AC**	**1byte**	**C,T**	**5.001 percentage(0..100%)**
169	**Fan speed low,In/Out**	**Page x-AC**	**1bit**	**C,W,T,U**	**1.001 switch**
Fan speed Out: 1byte k Fan speed low, In/Out: 1bit - k					
170	**Status of Fan speed,In**	**Page x-AC**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
170	**Fan speed medium**	**Page x-AC**	**1bit**	**C,W,T,U**	**1.001 switch**
Status of Fan speed, In: 1byte k Fan speed medium: 1bit - k					
171	**Fan speed high**	**Page x-AC**	**1bit**	**C,W,T,U**	**1.001 switch**
1bit - k					
172	**Fan speed Auto,In/Out**	**Page x-AC**	**1bit**	**C,W,T,U**	**1.001 switch**
1bit - k					
173	**Wind direction fixed/swing,In/Out**	**Page x-AC**	**1bit**	**C,W,T,U**	**1.017 trigger**
k 1—— 0——					
174	**Wind direction position,Out**	**Page x-AC**	**1byte**	**C,T**	**5.010 counter pulses(0..255)**

					1..5 k
175	**Status of Wind direction position,In**	**Page x-AC**	**1byte**	**C,W,T,U**	**5.010 counter pulses(0..255)**
					1..5 k
176	**Temperature setpoint, In/Out**	**Page x-AC**	**1byte** **2byte**	**C,W,T,U**	**5.010 counter pulses(0..255)** **9.001 temperature(℃)**
					k **2byte KNX 1byte KNX** **17℃ 17** k

6.3.3 “Air conditioner”

6.3.4. “Background Music”



6.3.4 “Background Music”

					DPT
161	**Power on/off,In/Out**	**Page x- BgMusic**	**1bit**	**C,W,T,U**	**1.001 switch**
		/			/
		k			
		1——			
		0——			
162	**Play/Pause,In/Out**	**Page x- BgMusic**	**1bit**	**C,W,T,U**	**1.010 start/stop**

/ k

1——

0——

163	**Next song/Previous song,Out**	**Page x- BgMusic**	**1bit**	**C,T**	**1.007 step**

/ k

1——

0——

164	**Volume+/Volume-,Out**	**Page x- BgMusic**	**1bit**	**C,T**	**1.007 step**

k

1——

0——

165	**Play mode,Out**	**Page x- BgMusic**	**1byte**	**C,T**	**5.010 pluses(0..255)**	**counter**

k

166	**Play mode status,In**	**Page x- BgMusic**	**1byte**	**C,W,T,U**	**5.010 pluses(0..255)**	**counter**

k

167	**Music source,Out**	**Page x- BgMusic**	**1byte**	**C,T**	**5.010 pluses(0..255)**	**counter**

k

168	**Music source status,In**	**Page x-BgMusic**	**1byte**	**C,W,T,U**	**5.010 pluses(0..255)**	**counter**

k

6.3.5. “RGB dimming”

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
161	Page 6-RGB Dimming	Red dimming value			1 byte	C	-	W	T	-	percentage (0..100%)	Low
162	Page 6-RGB Dimming	Green dimming value			1 byte	C	-	W	T	-	percentage (0..100%)	Low
163	Page 6-RGB Dimming	Blue dimming value			1 byte	C	-	W	T	-	percentage (0..100%)	Low
161	Page 6-RGB Dimming	RGB dimming value			3 bytes	C	-	W	T	-	RGB value 3x(0..255)	Low

RGB

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
161	Page 6-RGB Dimming	Red dimming value			1 byte	C	-	W	T	-		
162	Page 6-RGB Dimming	Green dimming value			1 byte	C	-	W	T	-	percentage (0..100%)	
163	Page 6-RGB Dimming	Blue dimming value			1 byte	C	-	W	T	-	percentage (0..100%)	
164	Page 6-RGB Dimming	White dimming value			1 byte	C	-	W	T	-	percentage (0..100%)	
165	Page 6-RGB Dimming	Color Temperature setting & status			2 bytes	C	-	W	T	-	absolute colour temperature (K)	
161	Page 6-RGB Dimming	RGBW dimming value			6 bytes	C	-	W	T	-	RGBW value 4x(0..100%)	Low

RGBW+Color Temperature

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
164	Page 6-RGB Dimming	Brightness setting & status			1 byte	C	-	W	T	-	percentage (0..100%)	Low
165	Page 6-RGB Dimming	Color Temperaturer setting & status			2 bytes	C	-	W	T	-	absolute colour temperature (K)	Low

Brightness+Color Temperature

6.3.5 “RGB dimming”

DPT

161 Red dimming value Page x-RGB Dimming 1byte C,W,T 5.001 percentage(0..100%)

165	Color Temperature setting	Page x-RGB Dimming	2 bytes	C,W,T	7.600 absolute colour temperature(K)
				k	1000K..10000K

161	RGB dimming value	Page x-RGB Dimming	3bytes	C,W, T	232.600 RGB value 3x(0..255)

RGB 1x3byte RGB

k

3 RGB U8 U8 U8

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

R:

G:

B: k

161	RGBW dimming value	Page x-RGB Dimming	6byte	C,W, T	251.600 RGB value 4x(0..255)

RGBW 1x6byte RGBW

k

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	00000000	0000BBBB

R:

G:

B:

W:

mR: , 0= , 1=

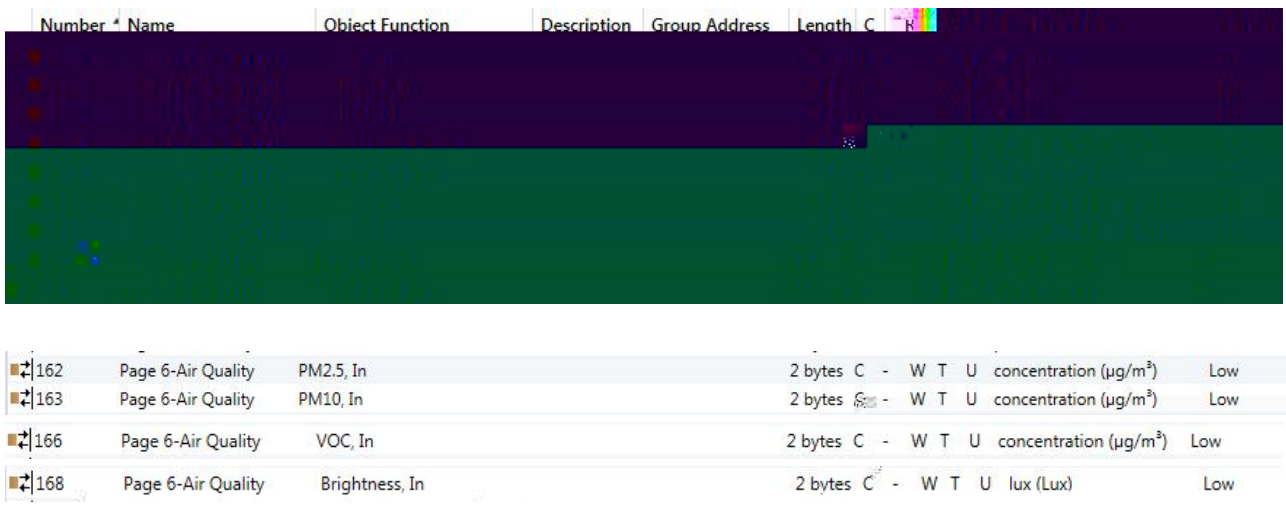
mG: , 0= , 1=

mB: , 0= , 1=

mW: , 0= , 1= k

6.3.5 “RGB dimming”

6.3.6. “Air Quality display”



6.3.6 “Air Quality display”

					DPT
161	**AQI,In**	**Page x-Air Quality**	**2bytes**	**C,W,T,U**	**7.001 pulses**
AQI k 0~500					
162	**PM2.5,In**	**Page x-Air Quality**	**2bytes**	**C,W,T,U**	**9.030 concentration(ug/m³) 7.001 pulses**
PM2.5 ug/m³ k 0~999ug/m³ k					
163	**PM10,In**	**Page x-Air Quality**	**2bytes**	**C,W,T,U**	**9.030 concentration(ug/m³) 7.001 pulses**

PM10 ug/m³ k

0~999ug/m³ k

164	**Temperature,In**	**Page x-Air Quality**	**2Bytes**	**C,W,T,U**	**9.001 temperature(℃)**

k -40~40

165	**Humidity,In**	**Page x-Air Quality**	**2bytes**	**C,W,T,U**	**9.007 humidity %**

k 0~100%

166	**VOC,In**	**Page x-Air Quality**	**2bytes**	**C,W,T,U**	**9.008 parts/million(ppm)** **7.001 pulses** **9.030 concentration(ug/m³)**

VOC mg/m³ k

0~9.99mg/m³ k

7.001 pulses 7.001 pulses

5000 ug/m³ 5.00mg/m³

167	**CO2,In**	**Page x-Air Quality**	**2bytes**	**C,W,T,U**	**9.008 parts/million(ppm)**

CO2 ppm k

0~4000ppm

168	**Brightness,In**	**Page x-Air Quality**	**2bytes**	**C,W,T,U**	**7.013 brightness(lux)** **9.004 lux(Lux)**

lux k

0~5000lux, k

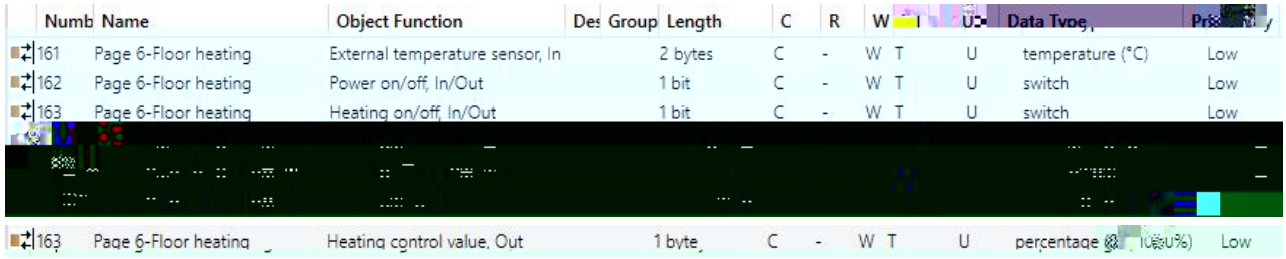
169	**Windspeed**	**Page x-Air Quality**	**2bytes**	**C,W,T,U**	**9.005 speed(m/s)**

m/s k

0~50m/s k

6.3.6 “Air Quality display”

6.3.7. “Floor heating”



6.3.7 “Floor heating”

					DPT
161	**External temperature sensor, In**	**Page x-Floor heating**	**2bytes**	**C,W,T,U**	**9.001 temperature(℃)**
					k -50~99.8
162	**Power on/off, In/Out**	**Page x-Floor heating**	**1bit**	**C,W,T,U**	**1.001 switch**
					k 1—— 0—— ! k
163	**Heating on/off, In/Out**	**Page x-Floor heating**	**1bit**	**C,W,T,U**	**1.001 switch**
163	**Heating control value, Out**	**Page x-Floor heating**	**1byte**	**C,W,T,U**	**5.001 percentage(0..100%)**
					k Heating on/off - 2-point control on/off Heating PWM - use PI control on/off Heating continuous control - use PI control 0...100% 1bit 5 k
164	**Setpoint , In/Out**	**Page x-Floor heating**	**2bytes**	**C,W,T,U**	**9.001 temperature(℃)**
					k 5~40
165	**En./Dis. Timer, In**	**Page x-Floor heating**	**1bit**	**C,W**	**1.003 enable**
		/ k /			k
166	**Scene, In**	**Page x-Floor heating**	**1byte**	**C,W**	**18.001 scene control**
		k 1~64			0~63 k

6.3.7 “Floor heating”

6.3.8. “Ventilation System”

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
162	Page 6-Ventilation	Power on/off, In/Out			1 bit	C	-	W	T	U	switch	Low
163	Page 6-Ventilation	En./Dis. Heat Recovery, In			1 bit	C	-	W	-	-	enable	Low
164	Page 6-Ventilation	Heat Recovery, In/Out			1 bit	C	-	W	T	U	switch	Low
165	Page 6-Ventilation	Filter timer reset, In			1 bit	C	-	W	-	-	reset	Low
166	Page 6-Ventilation	Filter timer counter, In/Out			2 bytes	C	-	W	T	U	time (h)	Low
167	Page 6-Ventilation	Filter alarm, Out			1 bit	C	-	-	T	-	alarm	Low
172	Page 6-Ventilation	CO2.In			2 bytes	C	-	W	T	U	parts/million (ppm)	Low
16	Page 6-Ventilation	Fan speed, Out			1 byte	C	-	-	T	-	percentage (0..100%)	Low
169	Page 6-Ventilation	Stauts of Fan speed, In			1 byte	C	-	W	T	U	percentage (0..100%)	Low
173	Page 6-Ventilation	PM2.5. In			2 bytes	C	-	W	T	U	concen	
173	Page 6-Ventilation	PM2.5. In			2 bytes	C	-	W	T	U	pulses	Low

6.3.8 “Ventilation system”

					DPT
162	**Power on/off,In/Out**	**Page x-Ventilation**	**1bit**	**C,W,T,U**	**1.001 switch**
				k	
		1——			
		0——			
163	**En./Dis. Heat Recovery,In**	**Page x-Ventilation**	**1bit**	**C,W**	**1.003 enable**
	/	k /			k
	k				
164	**Heat Recovery, In/Out**	**Page x-Ventilation**	**1bit**	**C,W,T,U**	**1.001 switch**
	/			k	
		1——			
		0——			
165	**Filter time reset, In**	**Page x-Ventilation**	**1bit**	**C,W**	**1.015 reset**
				k	
		1——			

166	**Filter time counter, In/Out**	**Page x-Ventilation**	**2byte**	**C,W,T,U**	**7.001 pluses**

k

k

167	**Filter alarm, Out**	**Page x-Ventilation**	**1bit**	**C,T**	**1.005 alarm**

k

1——

168	**Fan speed, Out**	**Page x-Ventilation**	**1byte**	**C,T**	**5.010 percentage(0..100%)**

“1byte” k

k

169	**Status of Fan speed, In**	**Page x-Ventilation**	**1byte**	**C,W,T,U**	**5.010 percentage(0..100%)**

“1byte” k

k

168	**Fan Speed No.1 1Bit, In/Out**	**Page x-Ventilation**	**1bit**	**C,W,T,U**	**1.001 switch**
169	**Fan Speed No.2 1Bit, In/Out**	**Page x-Ventilation**	**1bit**	**C,W,T,U**	**1.001 switch**
170	**Fan Speed No.3 1Bit, In/Out**	**Page x-Ventilation**	**1bit**	**C,W,T,U**	**1.001 switch**

“1bit”

k k

171	**Automatic function, In/Out**	**Page x-Ventilation**	**1bit**	**C,W,T,U**	**1.003 enable**

k

k ! ! k

/ k

172	**CO2, In**	**Page x-Ventilation**	**2byte**	**C,W,T,U**	**9.008 parts/million(ppm)** **7.001 pulses**

CO2 ppm k

0~4000ppm

CO2 CO2

k

k

173	**PM2.5, In**	**Page x-Ventilation**	**2byte**	**C,W,T,U**	**9.030 concentration(ug/m³) 7.001 pulses**
PM2.5 ug/m³ k 0~999ug/m³ PM2.5 PM2.5 k k					
174	**Scene, In**	**Page x-Ventilation**	**1byte**	**C,W**	**18.001 scene control**
k 1~64 0~63 k					

6.3.8 “Ventilation System”

6.3.9. “Energy Metering display”

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
161	Page 6-Energy Meter 1	Current in mA (DPT 7.012)			2 bytes	C	-	W	T	U	current (mA)	Low
162	Page 6-Energy Meter 2	Current in mA (DPT 9.021)			2 bytes	C	-	W	T	U	current (mA)	Low
163	Page 6-Energy Meter 3	Current in A (DPT 14.019)			4 bytes	C	-	W	T	U	electric current (A)	Low
164	Page 6-Energy Meter 4	Voltage in mV (DPT 9.020)			2							

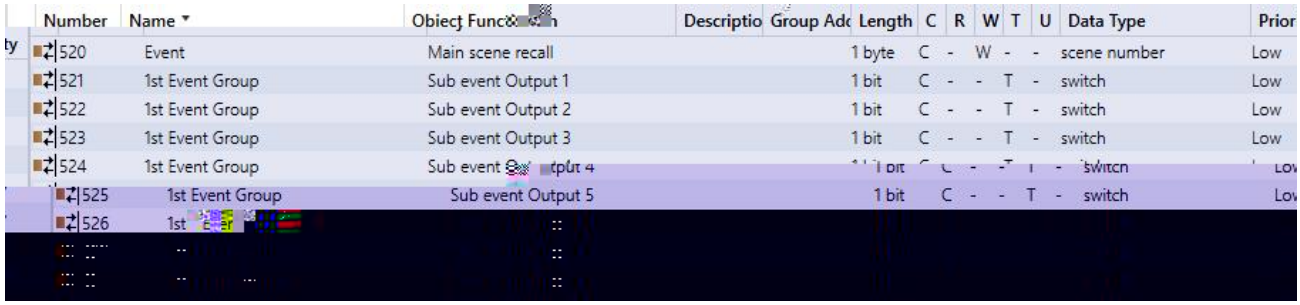
6.3.9 “Energy Metering display”

					DPT
161	**Current in mA(DPT 7.012)**	**Page x-Energy Meter y**	**2bytes**	**C,W,T,U**	**7.012 current (mA)**
k 0~65535mA, 1mA k					
162	**Current in mA(DPT 9.021)**	**Page x-Energy Meter y**	**2bytes**	**C,W,T,U**	**9.021 current (mA)**
k -670760~670760mA, 0.01mA k					
163	**Current in A(DPT 14.019)**	**Page x-Energy Meter y**	**4bytes**	**C,W,T,U**	**14.019 electric current (A)**

					k
	-99999999.9~99999999.9A, 0.1A k				
164	**Voltage in mV(DPT 9.020)**	**Page x-Energy Meter y**	**2bytes**	**C,W,T,U**	**9.020 voltage (mV)**
					k
	-670760mV~670760mV, 0.01mV k				
165	**Voltage in V(DPT 14.027)**	**Page x-Energy Meter y**	**4bytes**	**C,W,T,U**	**14.027 electric potential (V)**
					k
	-99999999.9~99999999.9V, 0.1V k				
166	**Power in W(DPT 14.056)**	**Page x-Energy Meter y**	**4bytes**	**C,W,T,U**	**14.056 power (W)**
					k
	-99999999.9~99999999.9W, 0.1W k				
167	**Power in kW(DPT 9.024)**	**Page x-Energy Meter y**	**2bytes**	**C,W,T,U**	**9.024 power (kW)**
					k
	-670760~670760kW, 0.01kW k				
168	**Active energy in Wh(DPT 13.010)**	**Page x-Energy Meter y**	**4bytes**	**C,W,T,U**	**13.010 active energy (Wh)**
					k
	-2147483648~2147483647Wh, 1Wh k				
193	**Active energy in kWh(DPT 13.013)**	**Page x-Energy Meter y**	**4bytes**	**C,W,T,U**	**13.013 active energy (kWh)**
					k
	-2147483648~2147483647kWh, 1kWh k				

6.3.9 “Energy Metering display”

6.5.“Event Group”



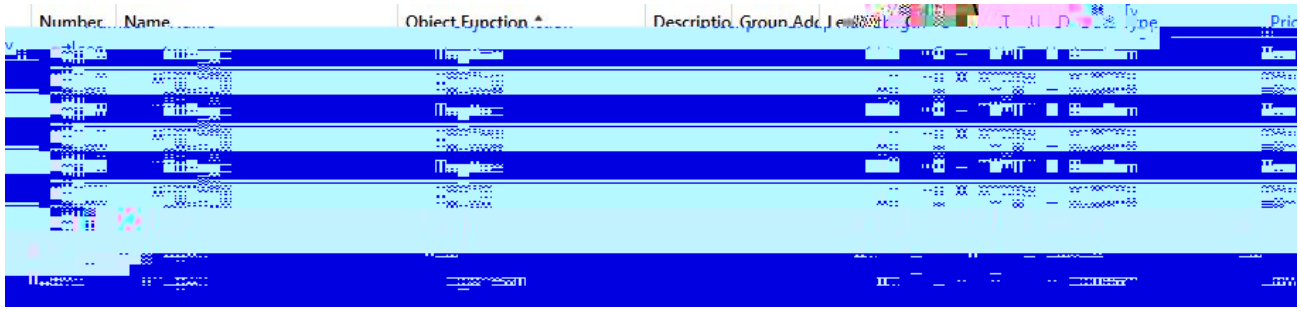
6.5.1“Event Group”

					DPT
520	**Main scene recall**	**Event**	**1byte**	**C,W**	**17.001 scene number**
					k 0..63
521/...	**Sub event Output 1..8**	**1st /.../8th Event Group**	**1bit** **1byte** **2byte**	**C,T**	**1.001 switch** **5.010 counter pulses(0..255)** **7.001 pulses**
					k k 8 8 k

6.5.1 “Event Group”

6.6.“Logic function”

6.6.1. “AND/OR/XOR”



6.6.1 “Logic function_AND/OR/XOR”

					DPT
585/...	**Input x**	**1st /.../8th Logic**	**1bit**	**C,W,T,U**	**1.002 boolean**
Input x k					
593	**Logic result**	**1st /.../8th Logic**	**1bit**	**C,T**	**1.002 boolean**
k					

6.6.1 “Logic function_AND/OR/XOR”

6.6.2. “Gate forwarding”

Number	Name	Object Function	Descriptio	Group Adc	Length	C	R	W	T	U	Data Type	Priority
585	1st Logic	Gate value select			1 byte	C	-	W	-	-	scene number	Low
586	1st Logic	Input A			1 bit	C	-	W	-	-	switch	Low
587	1st Logic	Input B			1 bit	C	-	W	-	-	switch	Low
588	1st Logic	Input C			1 bit	C	-	W	-	-	switch	Low
589	1st Logic	Input D			1 bit	C	-	W	-	-	switch	Low
590	1st Logic	Output A			1 bit	C	-	-	T	-	switch	Low
591	1st Logic	Output B			1 bit	C	-	-	T	-	switch	Low
592	1st Logic	Output C			1 bit	C	-	-	T	-	switch	Low
593	1st Logic	Output D			1 bit	C	-	-	T	-	switch	Low

6.6.2 “Logic function_Gate forwarding”

					DPT
585	**Gate value select**	**1st /.../8th Logic**	**1byte**	**C,W**	**17.001 scene number**
		k			
586/../589	**Input x**	**1st /.../8th Logic**	**1bit** **4bit** **1byte**	**C,W**	**1.001 switch** **3.007 dimming control** **5.010 counter pulses(0..255)**
		Input x k			
590/../593	**Output x**	**1st /.../8th Logic**	**1bit** **4bit** **1byte**	**C,T**	**1.001 switch** **3.007 dimming control** **5.010 counter pulses(0..255)**
		k k			

6.6.2 “Logic function_Gate forwarding”

6.6.3. “Threshold comparator”

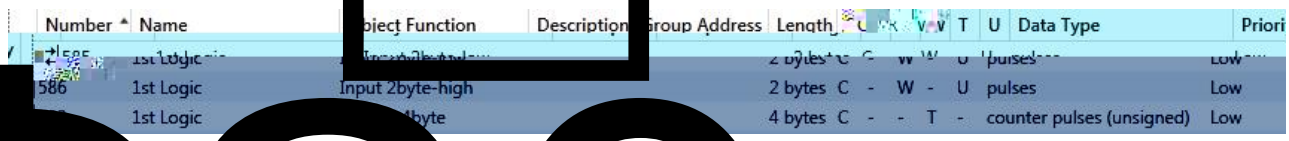
Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
585	1st Logic	Threshold value input			1 byte	C	-	W	-	U	counter pulses (0..255)	Low
593	1st Logic	Logic result			1 bit	C	-	-	T	-	boolean	Low

6.6.3“Logic function_Threshold comparator”

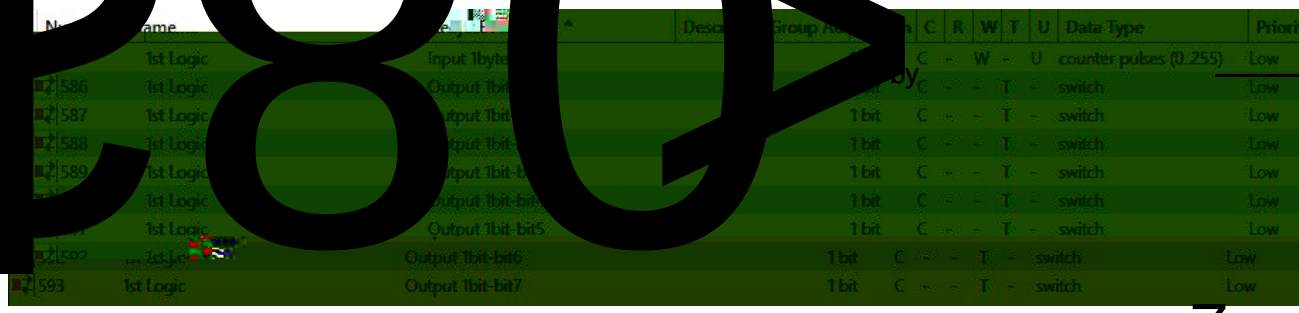
DPT

585 Thresho

2x1byte --> 1x2byte" 2 1byte 1 2byte Input 1byte-low = 2[illegible] ($[illegible]), Input 1byte-high = 100 ($64) --> Output 2byte = 25855 ($[illegible] FF)

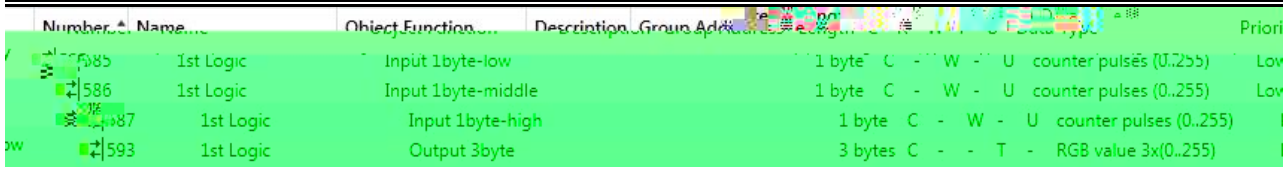


“2x[illegible]te --> [illegible]byte” 2byte [illegible] Input 2byte-low = 65530 ($FF FA), Input 2byte-high = 32768 ($80 00) --> Output 2byte = 2[illegible] ($80 00 FF FA)



“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

“1x2byte --> 2x1byte” 1 2byte [illegible] 2



"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

					DPT
585	**Input ...**	**1st /.../8th Logic**	**1bit** **1byte** **2byte** **3byte** **4byte**	**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					
593	**Output ...**	**1st /.../8th Logic**	**1bit** **2bit** **1byte** **2byte** **3byte** **4byte**	**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					

6.6.4 "Logic function_Format convert"