

# K-BUS

3 6

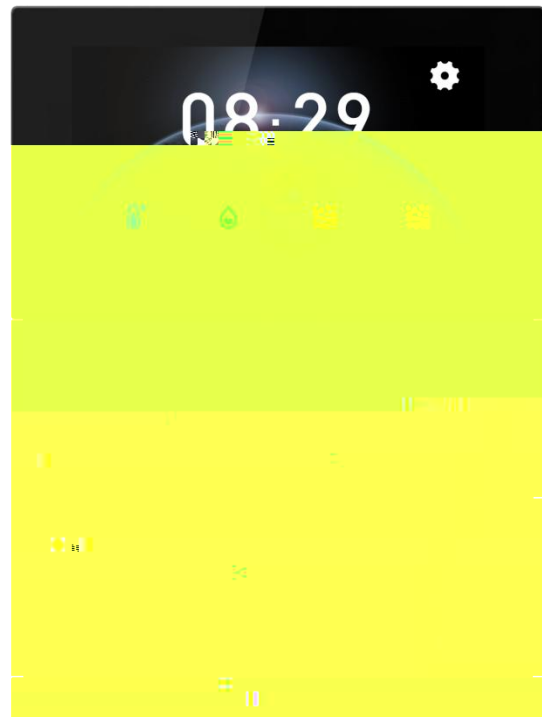
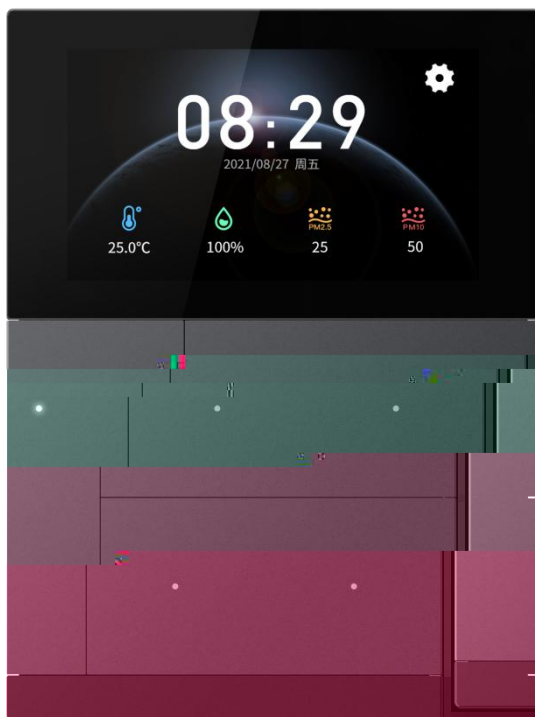
KNX Smart Touch with push button,3-gang\_V2.2

CHTFB-3.0/6.1.0x ( )

CHTFB-3.0/6.1.2x ( )

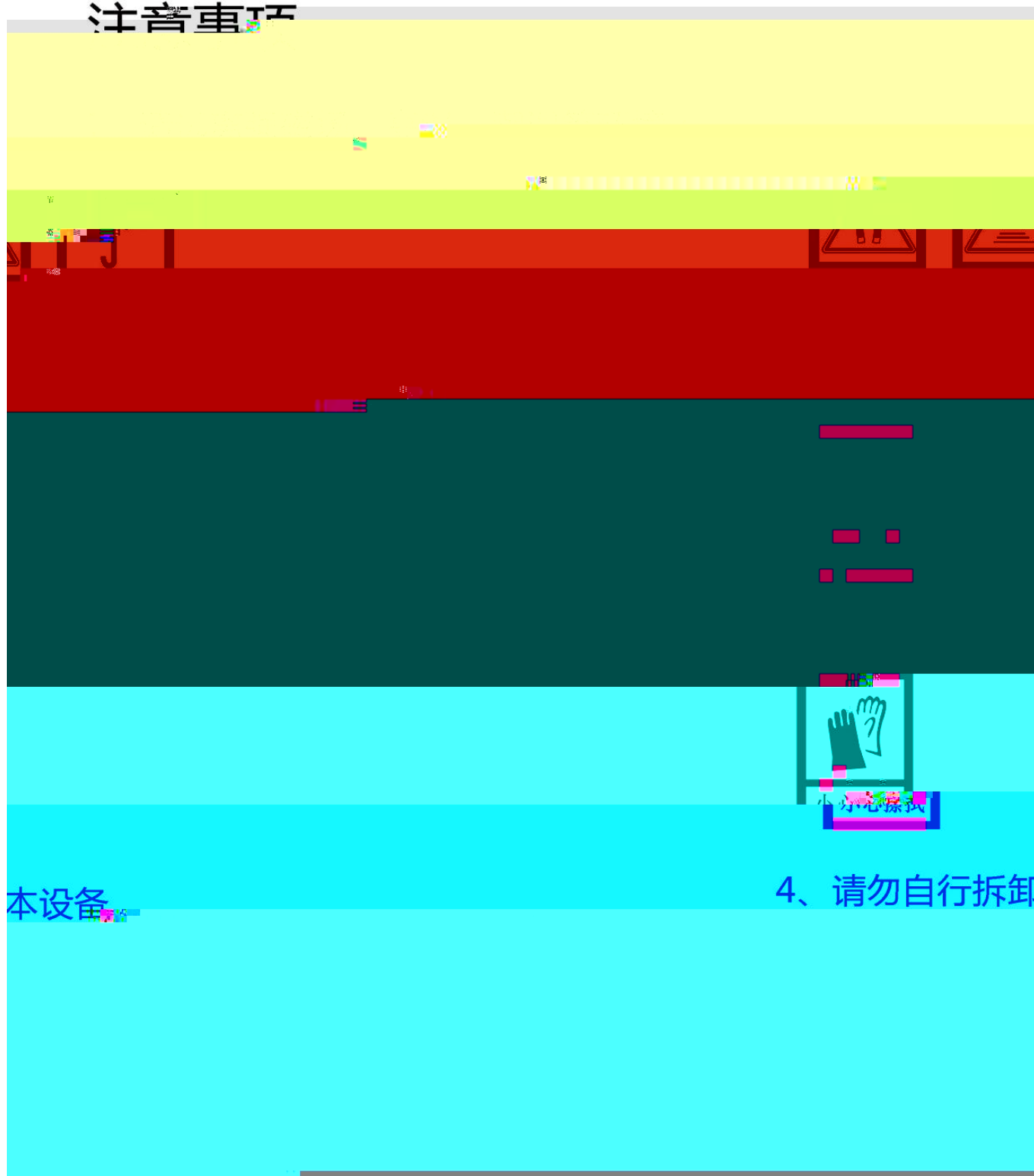
CHTBV-3.0/6.2.2x( )

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



KNX/EIB

## 注意事项



本设备

4、请勿自行拆卸

!

1

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---

(RGB RGBW ) HVAC

•

•

•

•

•

• /

•

• 2

NTC

•

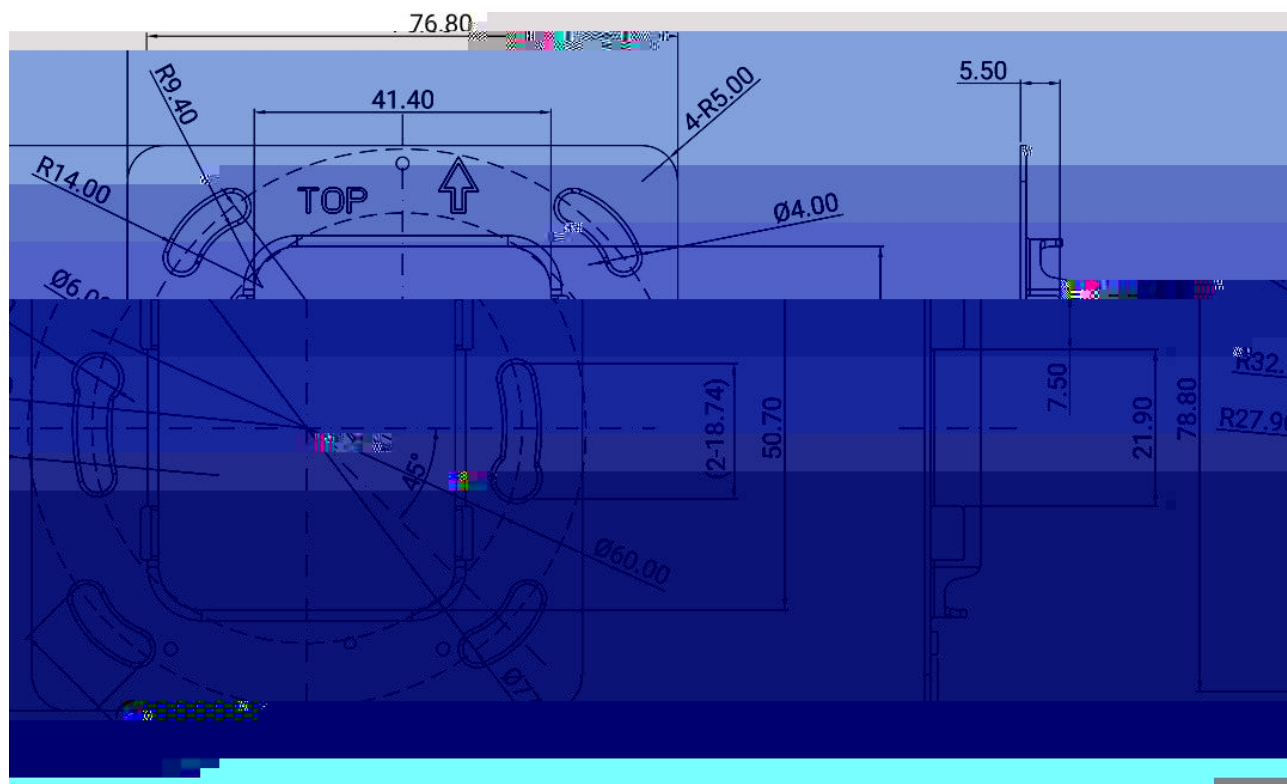
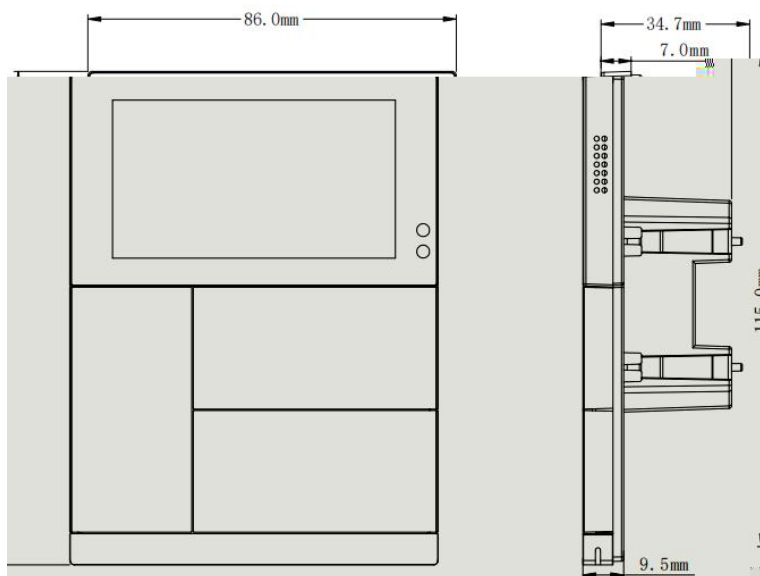
RGB

•

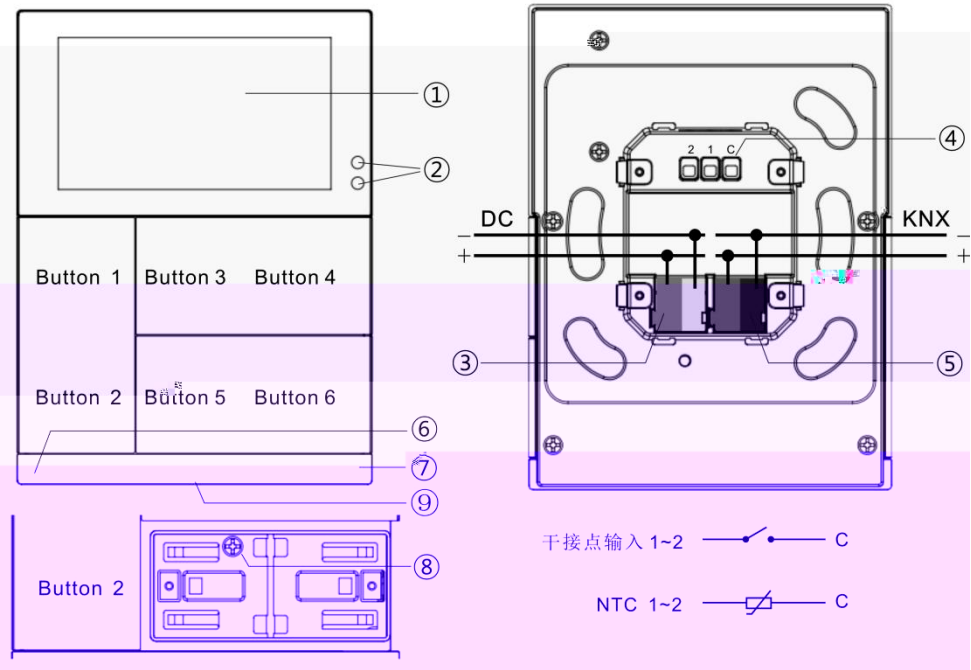
CHTBV-3.0/6.2.2x

|                  |                        |                        |
|------------------|------------------------|------------------------|
|                  | 21-30V DC,             | KNX                    |
|                  | <4mA, 24V              |                        |
|                  | <3.5mA, 30V            |                        |
|                  | <105mW                 |                        |
|                  | 12-30V DC              |                        |
|                  | <105mA, 24V            | <84.5mA, 30V           |
|                  | <124.5mA, 24V          | <104mA, 30V            |
|                  | <2.6W                  |                        |
|                  | <3.2W                  |                        |
| 2                | 10K NTC                |                        |
| <b>Micro USB</b> | UI                     |                        |
|                  | 30cm                   |                        |
|                  | KNX                    | /                      |
|                  |                        | /                      |
|                  | Micro USB              |                        |
|                  |                        | 0.2-1.5mm <sup>2</sup> |
|                  | 0.2-2.5mm <sup>2</sup> | 0.4N-m                 |
|                  | <5m                    |                        |
|                  | - 5 °C ... 45 °C       |                        |
|                  | - 25 °C ... 55 °C      |                        |
|                  | - 25 °C ... 70 °C      |                        |
|                  | <93%                   |                        |
|                  | 86 × 115 × 34.7mm      |                        |
|                  | 0.15kg                 |                        |

### 3.1



3.2



Micro USB

KNX

|                                               |      |      |      |
|-----------------------------------------------|------|------|------|
|                                               |      |      |      |
| KNX Smart Touch with push button,3-gang/1.1   | 1019 | 2000 | 2000 |
| KNX Smart Touch with voice control,3-gang/1.1 | 1026 | 2000 | 2000 |

KNX

/

2 4 2

PM2.5 PM10 CO2 VOC AQI

AQI PM2.5 PM10 VOC CO2

6

4 6 /

(RGB RGBW ) □

1bit/1byte

- a. LED LED
- b. >0 LED =0
- c. LED

HVAC

6

/

2 PI

-10~10°C

PM2.5/CO2/VOC

1bit 1byte

/

/

8

8

1

8

8

1bit/1byte/2byte

**ETS**

### 5.1. "General"

### 5.1.1. “General setting”



### 5.1.1 “General setting”

“Send delay after voltage recovery [0..15]s”

0..15

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

“0” “In

operation” “0” “In operation” “1”

0...240 0=

“Delay time for exiting setting status”

UI

- 0.5s
- 1.0s
- 2.0s
- 3.0s

“Long operation for touch after”

- 0.5s
- 1.0s
- 2.0s
- 3.0s

## Screen display setting

### "Temperature display units"

Celsius(°C)

Fahrenheit(°F)

### "Interface Language"

Chinese(Simplified) ( ) Spanish

Chinese(Traditional) ( ) Russian

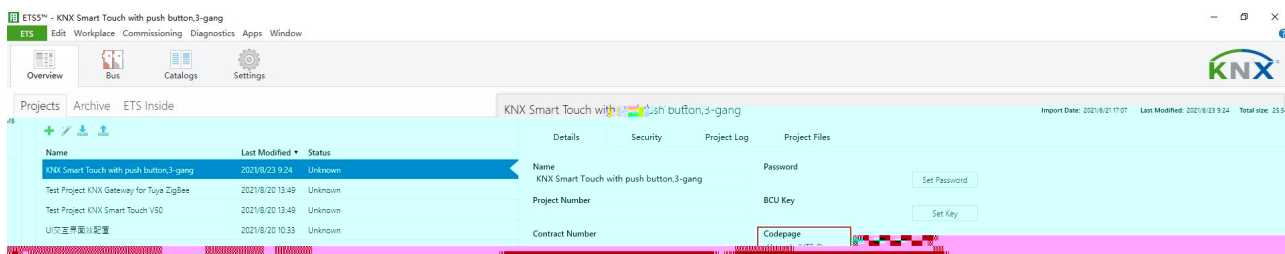
English Italian

German Greek

French Other

**警告：请务必确保工程属性里的编码页选项为UTF-8，否则中文显示将会异常**

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



---

**"Language name"**

**"Other"**

**"UI theme is"**

**Dark style**

**Light style**

**"Date display format"**

**yyyy/mm/dd**

**dd/mm/yyyy**

## **Extension function**

**"Screen saver"**

**"Night mode"**

**"Proximity function"**

**"Alarm function"**

## Brightness setting

"Screen brightness in normal mode"

( / )

10%

20%

...

100%

"Screen brightness in night mode"

( / )

10%

20%

...

100%

Unchanged

/ "Screen brightness"

"Unchanged"

"Screen brightness"

"Status LED brightness in normal mode"

LED

0%

5%

10%

20%

...

70%

"Status LED brightness in night mode"

LED

0%

5%

10%

20%

...

70%

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

0

0...255,0=inactive

0



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

1bit

"Screen on/off"

/

LED

/

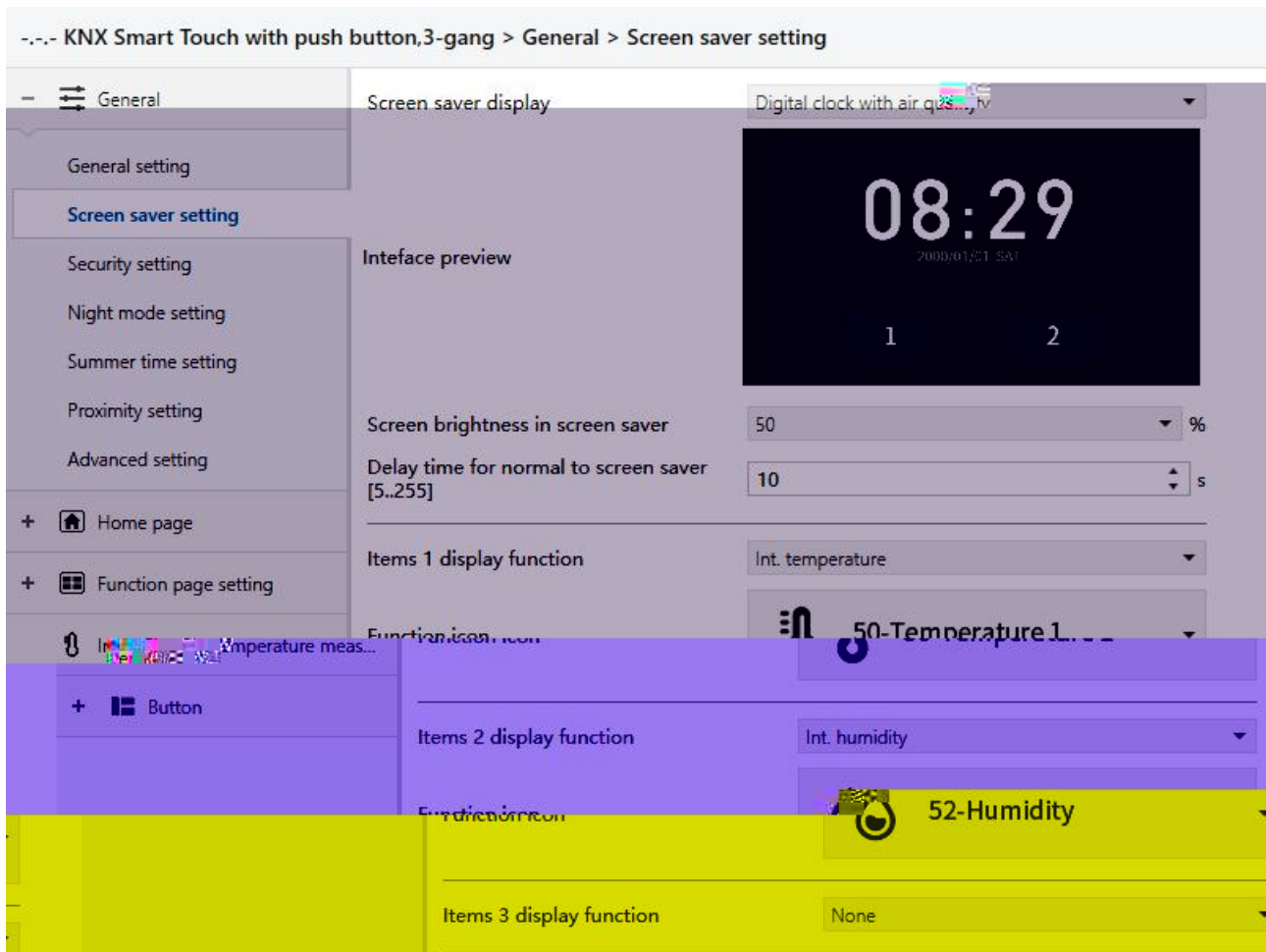
LED

Only apply to screen

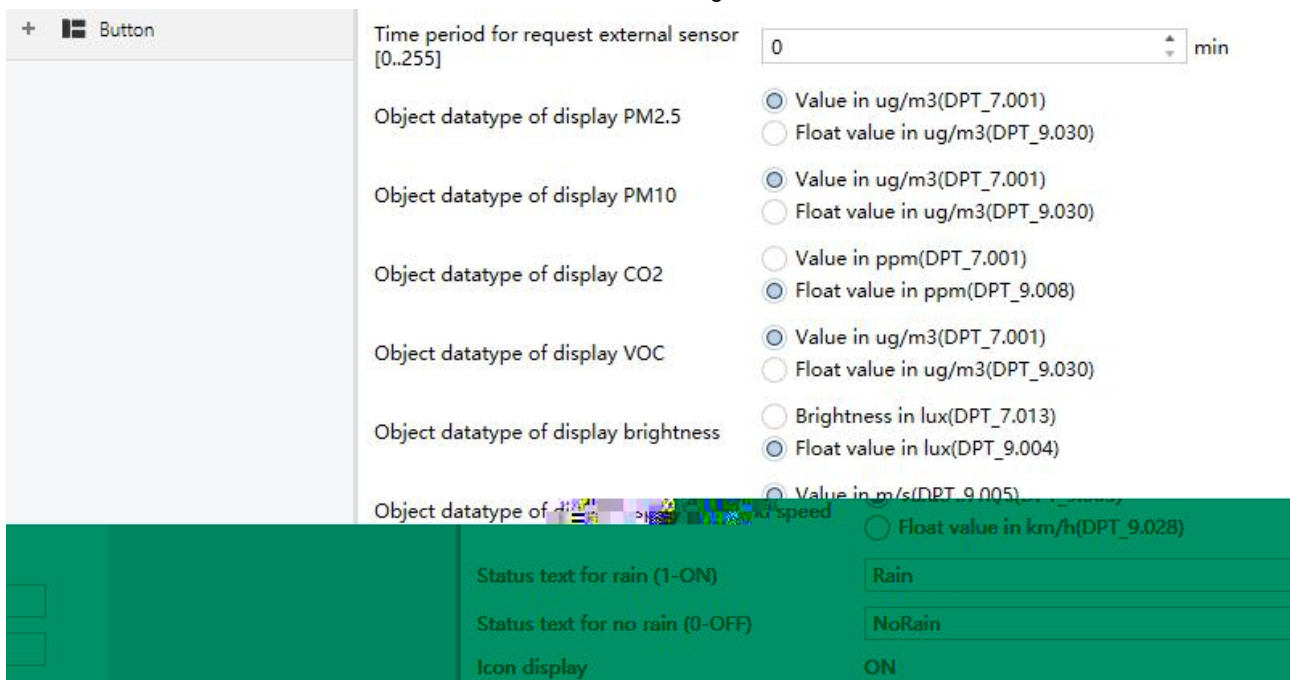
Apply to Both Screen and Status LED

LED

## 5.1.2. "Screen saver setting"



## 5.1.2 "Screen saver setting"



## 5.1.2 "Screen saver setting"

**"Screen saver display"**

**Clock**

**Digital clock with air quality**

**Album(3 pictures)**

**Album(1 pictures)**

Clock

Digital clock with air quality

Album(...)

3

5s

**U**

**"Screen brightness in screen saver"**

**10%**

**20%**

**...**

**50%**

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

**5..255**

**Digital clock with air quality****"Items x display function" x=1~4**

4

|                  |            |
|------------------|------------|
| None             | VOC        |
| Int. Temperature | CO2        |
| Int. Humidity    | AQI        |
| Ext. Temperature | Brightness |
| Ext. Humidity    | Wind speed |
| PM2.5            | Rain       |
| PM10             |            |

None

**"Function icon"****01-General light****02-Ceiling light**

...

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

0

**0..255****"Object datatype of display PM2.5/PM10/VOC"**

PM2.5/PM10/VOC

**Value in ug/m3(DPT\_7.001)****Float value in ug/m3(DPT\_9.030)**

"Object datatype of display CO2"

CO2

**Value in ppm(DPT\_7.001)**

**Float value in ppm(DPT\_9.008)**

"Object datatype of display brightness"

**Brightness in lux(DPT\_7.013)**

**Float value in lux(DPT\_9.004)**

"Object datatype of display wind speed"

**Value in m/s(DPT\_9.005)**

**Float value in km/h(DPT\_9.028)**

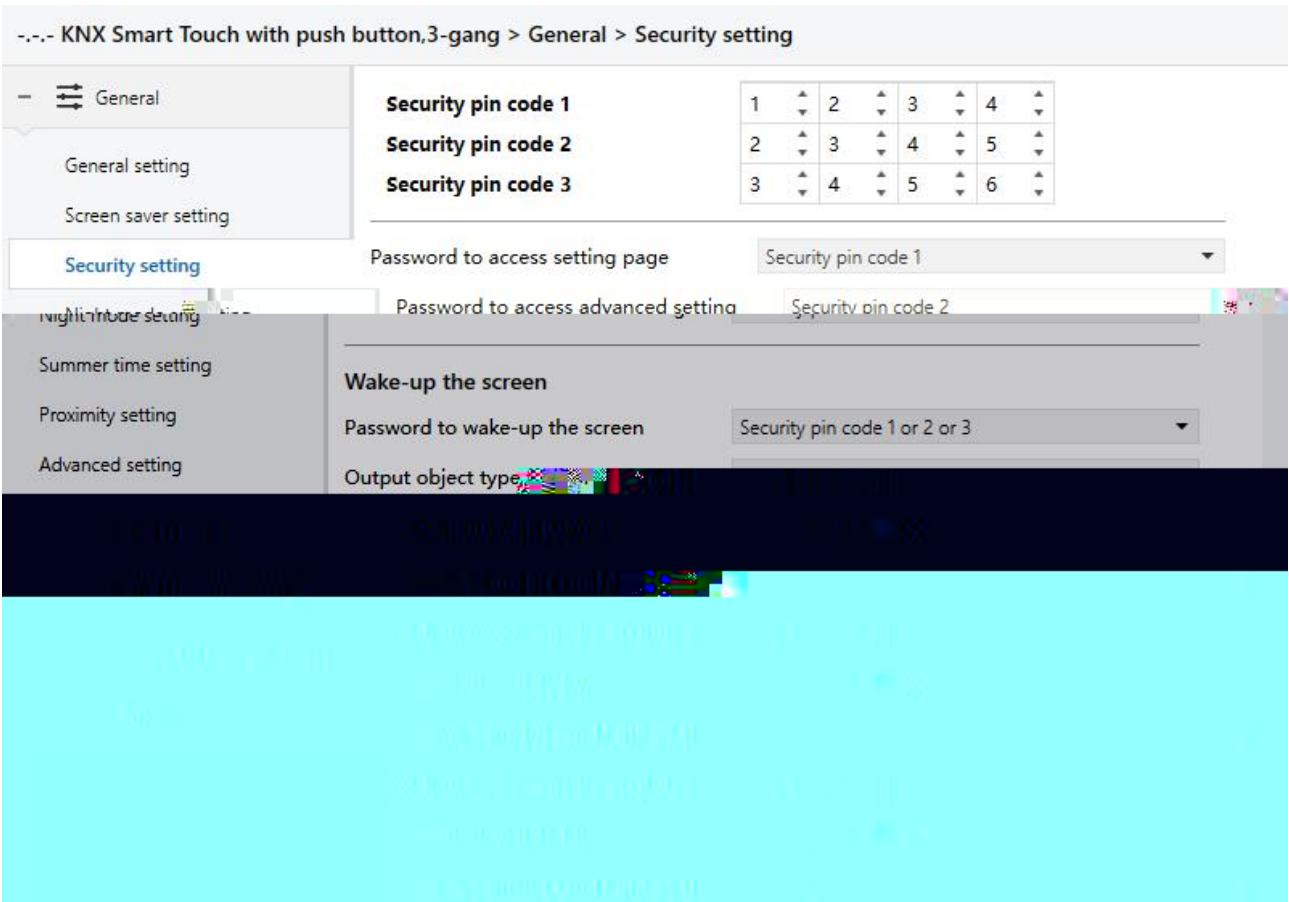
"Status text for rain (1-ON)"

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

"Icon display"

**ON**

5.1.3. “Security setting”



5.1.3 “Security setting”

“Security pin code x”(x=1~3)

3

4

0..9

“Password to access setting page”

- None
- Security pin code 1
- Security pin code 2
- Security pin code 3

"Password to access advanced setting"

None

Security pin code 1

Security pin code 2

Security pin code 3

## Wake-up the screen setting

"Password to wake-up the screen"

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

"Output object type for security x"(x=1~3)

x

No reaction

1bit[On/Off]

1byte[scene control]

1byte[0..255]

1byte[0..100%]

“Output value...”

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

“Delay time for sending[0..255]s”

“No reaction”

0..255

#### 5.1.4. “Night mode setting”

--- KNX Smart Touch with push button,3-gang > General > Night mode setting

|                      |                                                                                      |                                                                                          |
|----------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| General              | Polarity of normal/night mode                                                        | <input type="radio"/> Normal=1/Night=0 <input checked="" type="radio"/> Normal=0/Night=1 |
| General setting      | Switchover normal/night mode                                                         | Via object                                                                               |
| Screen saver setting | Normal/night mode need send read request after voltage recovery                      | <input type="radio"/> No <input checked="" type="radio"/> Yes                            |
| Security setting     | <p><b>Note:</b> Default to normal mode if no response when request after startup</p> |                                                                                          |

Via object

--- KNX Smart Touch with push button,3-gang > General > Night mode setting

|                      |                                   |                                                                                          |
|----------------------|-----------------------------------|------------------------------------------------------------------------------------------|
| General              | Polarity of normal/night mode     | <input type="radio"/> Normal=1/Night=0 <input checked="" type="radio"/> Normal=0/Night=1 |
| General setting      | Switchover normal/night mode      | Depend to certain time                                                                   |
| Screen saver setting | Time for switch to night at       | 18:00 hh:mm                                                                              |
| Security setting     | Time for switch to normal(day) at | 06:00 hh:mm                                                                              |

Depend to certain time

--- KNX Smart Touch with push button,3-gang > General > Night mode setting

|                           |                                     |                                                                                          |
|---------------------------|-------------------------------------|------------------------------------------------------------------------------------------|
| General                   | Polarity of normal/night mode       | <input type="radio"/> Normal=1/Night=0 <input checked="" type="radio"/> Normal=0/Night=1 |
| General setting           | Switchover normal/night mode        | Depend to sunrise&sunset                                                                 |
| Screen saver setting      | <b>Coordinates location setting</b> |                                                                                          |
| Security setting          | Latitude longitude setting location | Beijing, China                                                                           |
| <b>Night mode setting</b> | Latitude                            | <input checked="" type="radio"/> North <input type="radio"/> South                       |
| Summer time setting       | Latitude in degrees [0..90]         | 39                                                                                       |
| Proximity setting         | Latitude in minutes [0..59]         | 56                                                                                       |
| Advanced setting          | Longitude                           | <input checked="" type="radio"/> East <input type="radio"/> West                         |

Depend to sunrise&sunset (1)

|                                                                                              |     |
|----------------------------------------------------------------------------------------------|-----|
| Longitude in degrees [0..180]                                                                | 116 |
| Longitude in minutes [0..59]                                                                 | 20  |
| Time difference from Universal Time (UTC (UTC +08:00) Singapore, Beijing, Hong Kong, Taipei) |     |

**Time calibration**

|                                          |   |     |
|------------------------------------------|---|-----|
| Switching time move to night [-128..127] | 0 | min |
| Switching time move to day [-128..127]   | 0 | min |

Depend to sunrise&sunset (2)

#### 5.1.4 "Screen saver setting"

"Polarity of normal/night mode"

/

**Normal=1/Night=0**

**Normal=0/Night=1**

"Switchover normal/night mode"

/

"Night mode"

**Via object**

**Depend to certain time**

**Depend to sunrise&sunset**

Via object

Depend to certain time / 18 30

6 30

Depend to sunrise&sunset /

116°20' 39°56'

### “Via object”

“Normal/night mode need send read request after voltage recovery”

“Night mode”

LED

/

No

Yes

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

LED

### “Depend to certain time”

“Time for switch to night at”

00:00-23:59

“Time for switch to normal(day) at”

00:00-23:59

---

**“Depend to sunrise&sunset”**

**Coordinates location setting**

**“Latitude longitude setting location”**

**“Beijing,China”**

**“Latitude”**

**North**

**South**

**“Latitude in degrees [0°..90°]”**

**“Latitude in minutes [0'..59']”**

**39°56'**

**“Longitude”**

**East**

**West**

**“Longitude in degrees [0°..180°]”**

**“Longitude in minutes [0'..59']”**

**116°20'**

**“Time difference from Universal Time (UTC + ...)”**

(UTC -12 00) International Date Line West

(UTC -11 00) Samoa

.....

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

(UTC +12 00) Auckland, Wellington, Fiji

## Time calibration

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

**-128..127**

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

**-128..127**

-10min

10min

10min

10min

## 5.1.5

### 5.1.5. "Summer time setting"

--- KNX Smart Touch with push button,3-gang > General > Summer time setting

|                      |                           |               |       |
|----------------------|---------------------------|---------------|-------|
| General              | Changeover of summer time | Customized    |       |
| General setting      | Start at month            | March         |       |
| Screen saver setting | Start at week             | The last week |       |
| Security setting     | Start at day              | Sunday        |       |
| Night mode setting   | Start at hour: minute     | 02:00         | hh:mm |
| Summer time setting  | End at month              | October       |       |
| Proximity setting    | End at week               | The last week |       |
| Advanced setting     | End at day                | Sunday        |       |
|                      | End at hour: minute       | 03:00         | hh:mm |

5.1.5 "Summer time setting"

#### "Changeover of summer time"

**No active**

**Always**

**Customized**

No:

Always

Customized setting

**"Customized setting",**

**"Start at month"**

**"End at month"**

**January**

---

**February**

...

**December**

**"Start at week"**

**"End at week"**

**The first week**

**The second week**

...

**The last week**

**"Start at day"**

**"End at day"**

**Monday**

**Tuesday**

...

**Sunday**

**"Start at hour: minute"**

**"End at hour: minute"**

**00:00-23:59**

### 5.1.6. "Proximity setting"

--- KNX Smart Touch with push button,3-gang > General > Proximity setting

|                      |                                      |                                                                                 |
|----------------------|--------------------------------------|---------------------------------------------------------------------------------|
| General              | The Proximity function triggered via | Sensor or Proximity object                                                      |
| General setting      | Object type of output value          | 1bit[On/Off]                                                                    |
| Screen saver setting | Reaction for proximity approaching   | <input type="radio"/> No reaction <input checked="" type="radio"/> Send a value |
| Security setting     | Output value                         | <input type="radio"/> OFF <input checked="" type="radio"/> ON                   |
| Night mode setting   | Delay time for sending [0..65535]    | 0 s                                                                             |
| Summer time setting  | Reaction for proximity leaving       | <input type="radio"/> No reaction <input checked="" type="radio"/> Send a value |
| Proximity setting    | Output value                         | <input checked="" type="radio"/> OFF <input type="radio"/> ON                   |
| Advanced setting     | Delay time for sending [0..65535]    | 10 s                                                                            |

#### 5.1.6 "Proximity setting"

"The Proximity function triggered via"

Sensor

Proximity object

Sensor or Proximity object

"Sensor or Proximity object"

"Sensor"

"Sensor or Proximity object"

"Object type of output value"

1bit[On/Off]

1byte[scene control]

1byte[0..255]

1byte[0..100%]

"Reaction for proximity approaching"

"Reaction for proximity leaving"

**No reaction**

**Send a value**

**"Output value"**

"Send a value"

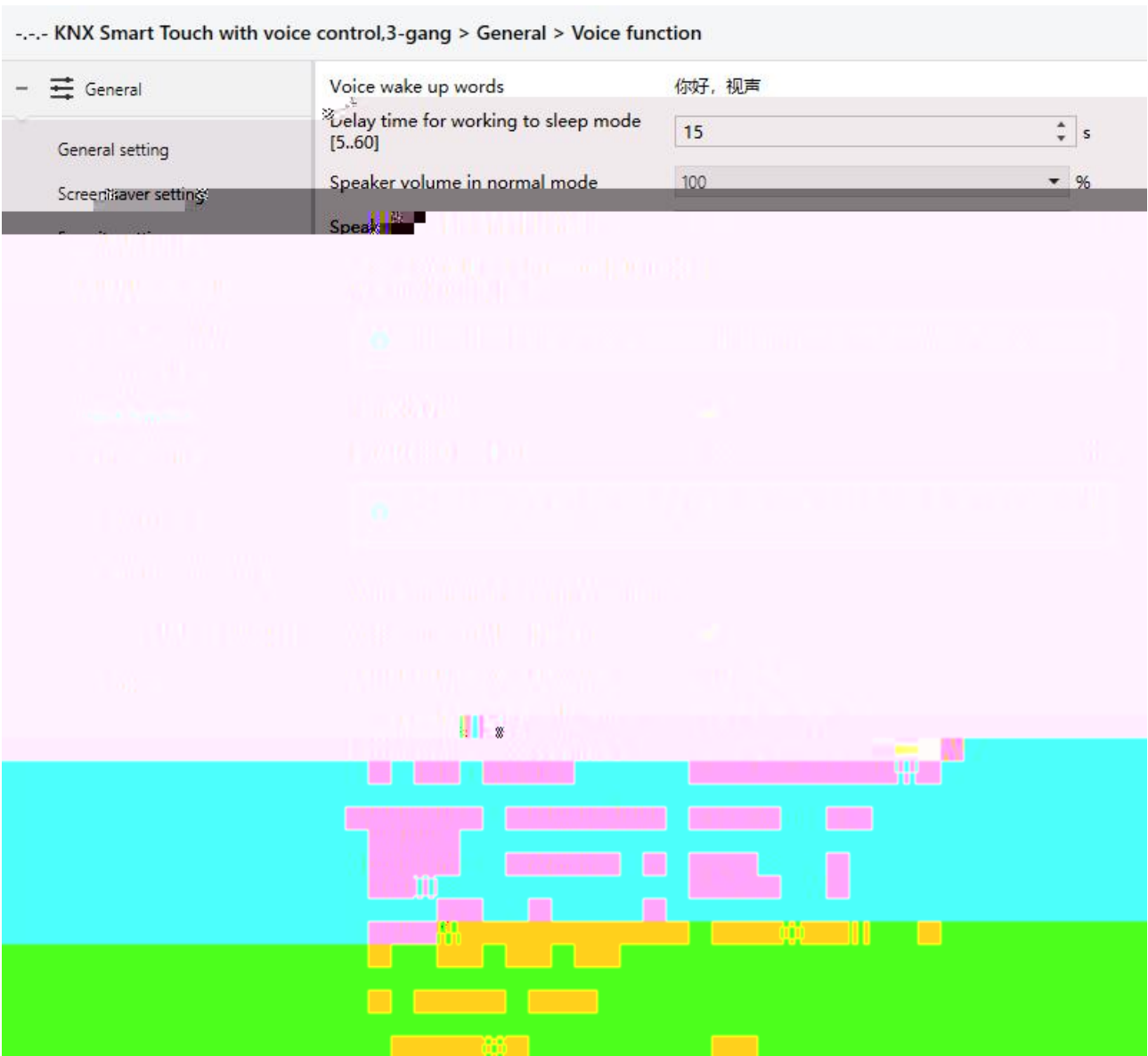
**"Delay time for sending [0..65535]s"**

"Send a value"

**0..65535**

**5..65535**

5.1.7. “Voice function”



5.1.7 “Voice function”

“Voice wake up words”

“Delay time for working to sleep mode [5..60]s”



"

"

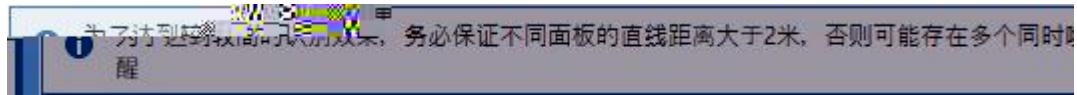
100ms

200ms

300ms

500ms

1000ms



200ms

2

!

□

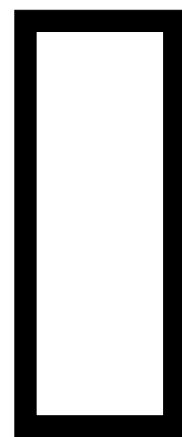
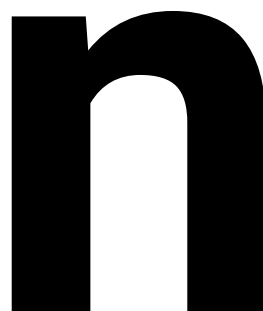
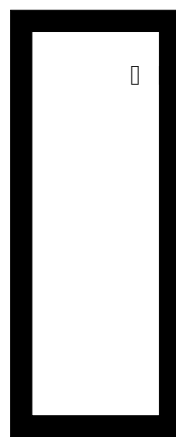
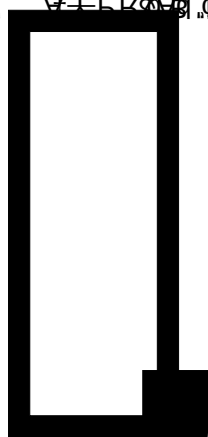
)

## Voice command description setting

"Voice co

106

"



Disable

Enable "Dis/En Mute mode" /

Enable and voice command description indication "Dis/En Mute mode" /

Dis/En Mute mode /

"Enable and voice command description indication"

|                                                               |    |    |
|---------------------------------------------------------------|----|----|
| "Description for wake up voice"                               |    |    |
|                                                               | 48 | 16 |
| "Description for enter to sleep mode"                         |    |    |
|                                                               | 48 | 16 |
| "Description for voice command is recognized but bus failure" |    |    |
|                                                               | 48 | 16 |

KNX/

### 5.1.8. "Alarm setting"

--- KNX Smart Touch with push button,3-gang > General > Alarm setting

|                      |                                               |                                                                                              |
|----------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------|
| General              | Alarm tone time period                        | 10s                                                                                          |
| General setting      | Alarm tone time automatically repeat interval | 1min                                                                                         |
| Screen saver setting | When alarm active, warning message via        | <input checked="" type="radio"/> Fixed string <input type="radio"/> 14 Bytes string from bus |
| Security setting     | Warning string(max 18char.)                   |                                                                                              |
| Night mode setting   | Send acknowledge after confirm the alarm      | <input checked="" type="radio"/> No <input type="radio"/> Yes                                |

5.1.8 "Alarm setting"

#### "Alarm tone time period"

Disable

10s

20s

...

25min

30min

Disable

#### "Alarm tone time automatically repeat interval time"

Disable

10s

20s

...

25min

30min

Disable

"When alarm active, warning message via"

ETS

14byte

Fixed string

14 Bytes string from bus

"14 Bytes string from bus"



The encode data of telegram



UTF-8

ISO8859

"Warning string(max 18char.)"

"Fixed string"

"Send acknowledge after confirm the alarm"

1bit

### 5.1.9. "Advanced setting"

| -.- KNX Smart Touch with push button,3-gang > General > Advanced setting                   |                      |                                     |
|--------------------------------------------------------------------------------------------|----------------------|-------------------------------------|
| <div> <div>General</div> <div>General setting</div> <div>Screen saver setting</div> </div> | Input interface      | <input checked="" type="checkbox"/> |
|                                                                                            | HVAC controller      | <input checked="" type="checkbox"/> |
|                                                                                            | Logic function       | <input checked="" type="checkbox"/> |
|                                                                                            | Scene group function | <input checked="" type="checkbox"/> |

5.1.9 "Advanced setting"

"Input interface"

"HVAC controller"

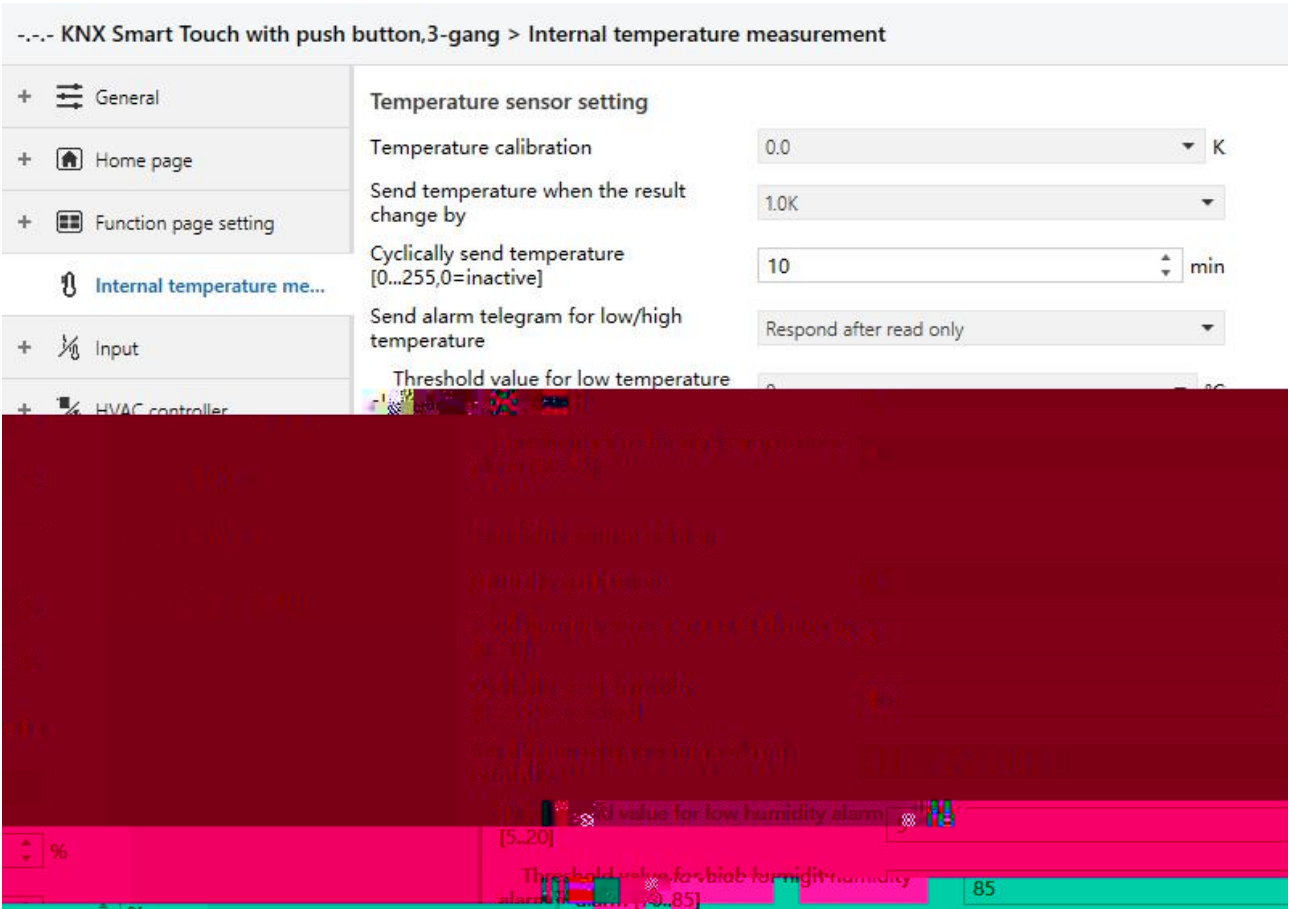
HVAC

"Logic function"

"Scene group function"

5.2.

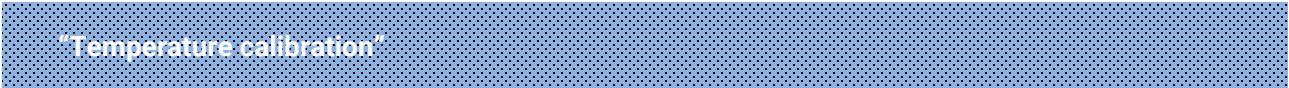
"Internal temperature measurement"



5.2 "Internal temperature measurement"

/

Temperature sensor setting



- 5K
- ...
- 0K
- ...

5K

30

"Send temperature when the result change by"

Disable

Disable

0.5K

1.0K

...

10K

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

0

0..255

"Send alarm telegram for low/high temperature"

/

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"

“Respond after read only”

“Respond after change”

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

0°C

1°C

...

15°C

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

30°C

31°C

...

45°C

## Humidity sensor setting

“Humidity calibration”

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

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

0

0..20

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

0

0..255

"Send alarm telegram for low/high humidity"

/

**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"

"Respond after read only"

"Respond after change"

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

**5..20**

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

**70..85**

5.3. "Input"

KNX Smart Touch with push button,3-gang > Input

+General

+Home page

Function of input 1

Function of input 2

Bl: Switch sensor

Disable

5.3 "Input"

"Function of input x" (x=1, 2)

Disable

Temperature probe(NTC 10K)

Bl: Switch sensor

Bl: Scene control

Bl: Send String(14bytes)

B

/ /



...

0K

...

5K

"Send temperature when the result change by"

Disable

Disable

0.5K

1.0K

...

10K

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

0

0..255

"Reply error of sensor measurement"

**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"

"Respond after read only"

"Respond after change"

---

**“Object value of error”**

**0=no error/1=error**

**1=no error/0=error**

0=no error/1=error

0

1

1=no error/0=error

**“Upper threshold value for error report”**

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

**“Lower threshold value for error report”**

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

### 5.3.2.

--- KNX Smart Touch with push button,3-gang > Input > Input 1 - Switch sensor

|                              |                                                                            |                                                               |
|------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|
| + General                    | Description (max 30char.)                                                  |                                                               |
| + Home page                  | Distinction between short and long operation                               | <input checked="" type="radio"/> No <input type="radio"/> Yes |
| + Function page setting      | Reaction on close the contact                                              | ON                                                            |
| Internal temperature meas... | Reaction on open the contact                                               | OFF                                                           |
| - Input                      | Send object value after voltage recovery (valid if reaction is not toggle) | <input type="radio"/> No <input type="radio"/> Yes            |
| Input 1 - Switch sensor      | Number of objects                                                          | <input type="radio"/> 1 <input type="radio"/> 2               |
|                              | Disable function                                                           | Disable                                                       |

5.3.2(1)

--- KNX Smart Touch with push button,3-gang > Input > Input 1 - Scene control

|                              |                                              |                                                                                      |
|------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|
| + General                    | Description (max 30char.)                    |                                                                                      |
| + Home page                  | Distinction between short and long operation | <input type="radio"/> No <input checked="" type="radio"/> Yes                        |
| + Function page setting      | Long operation after [3.1.2.1]               | 0                                                                                    |
| Internal temperature meas... | Connected contact type                       | <input checked="" type="radio"/> Normally open <input type="radio"/> Normally closed |
| - Input                      | Reaction on short operation                  | Recall scene                                                                         |
| Input 1 - Scene control      | 8 bit scene number                           | Scene No.1                                                                           |
| + HVAC controller            | Reaction on long operation                   | Store scene                                                                          |
| + Button                     | 8 bit scene number                           | Scene No.1                                                                           |
|                              | Number of objects                            | <input checked="" type="radio"/> 1 <input type="radio"/> 2                           |
|                              | Disable function                             | Disable                                                                              |

5.3.2(2)

--- KNX Smart Touch with push button,3-gang > Input > Input 1 - Send String

|                              |                                              |                                                                               |
|------------------------------|----------------------------------------------|-------------------------------------------------------------------------------|
| + General                    | Description (max 30char.)                    |                                                                               |
| + Home page                  | Distinction between short and long operation | <input checked="" type="radio"/> No <input type="radio"/> Yes                 |
| + Function page setting      | Reaction on close the contact                | <input type="radio"/> No reaction <input checked="" type="radio"/> Send value |
| Internal temperature meas... | String (14bit)                               |                                                                               |
| - Input                      |                                              |                                                                               |
| Input 1 - Send String        |                                              |                                                                               |

5.3.2(3)



KNX/E

3 6

Description (30char.)

"Detection between short and long operation"

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

/ to \_/5s1w/ba015m7 4096\_ÖYa

3..25

"Connected contact type"

/

Normally open

Normally

---

ON

OFF

TOGGLE

**"Reaction on close/open the contact"**

/

No reaction

OFF

ON

TOGGLE

**"Send object value after voltage recovery (valid if reaction is not toggle)"**

/

"TOGGLE" "No reaction"

No

Yes

**"BI: Scene control",**

**"Reaction on short/long operation"**

/

No reaction

Recall scene

Store scene

**"Reaction on close/open the contact"**

/

No action

Recall scene

Store scene

“BI: Send String(14 bytes)”, 0

“Recall scene” “Store scene”

Scene NO.1~64

0~63

“BI: Send String(14 bytes)”, 0

“Recall scene” “Store scene”

/

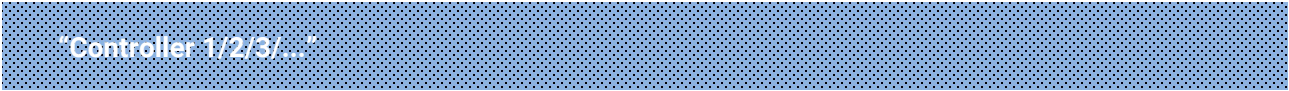
□ □



5.4. “HVAC controller”

|                                                                                                                |                                                                                                |                                     |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------|
| --- KNX Smart Touch with push button,3-gang > HVAC controller                                                  |                                                                                                |                                     |
| +  General                    | Controller 1                                                                                   | Room temperature controller (RTC) ▼ |
| +  Home page                  | Controller  2 | Disable ▼                           |
| +  Function page setting      | Controller 3                                                                                   | Disable ▼                           |
|  Internal temperature meas... | Controller 4                                                                                   | Disable ▼                           |
| +  Input                      | Controller 5                                                                                   | Disable ▼                           |
|                                                                                                                | Controller 6                                                                                   | Disable ▼                           |

5.4 “HVAC controller”

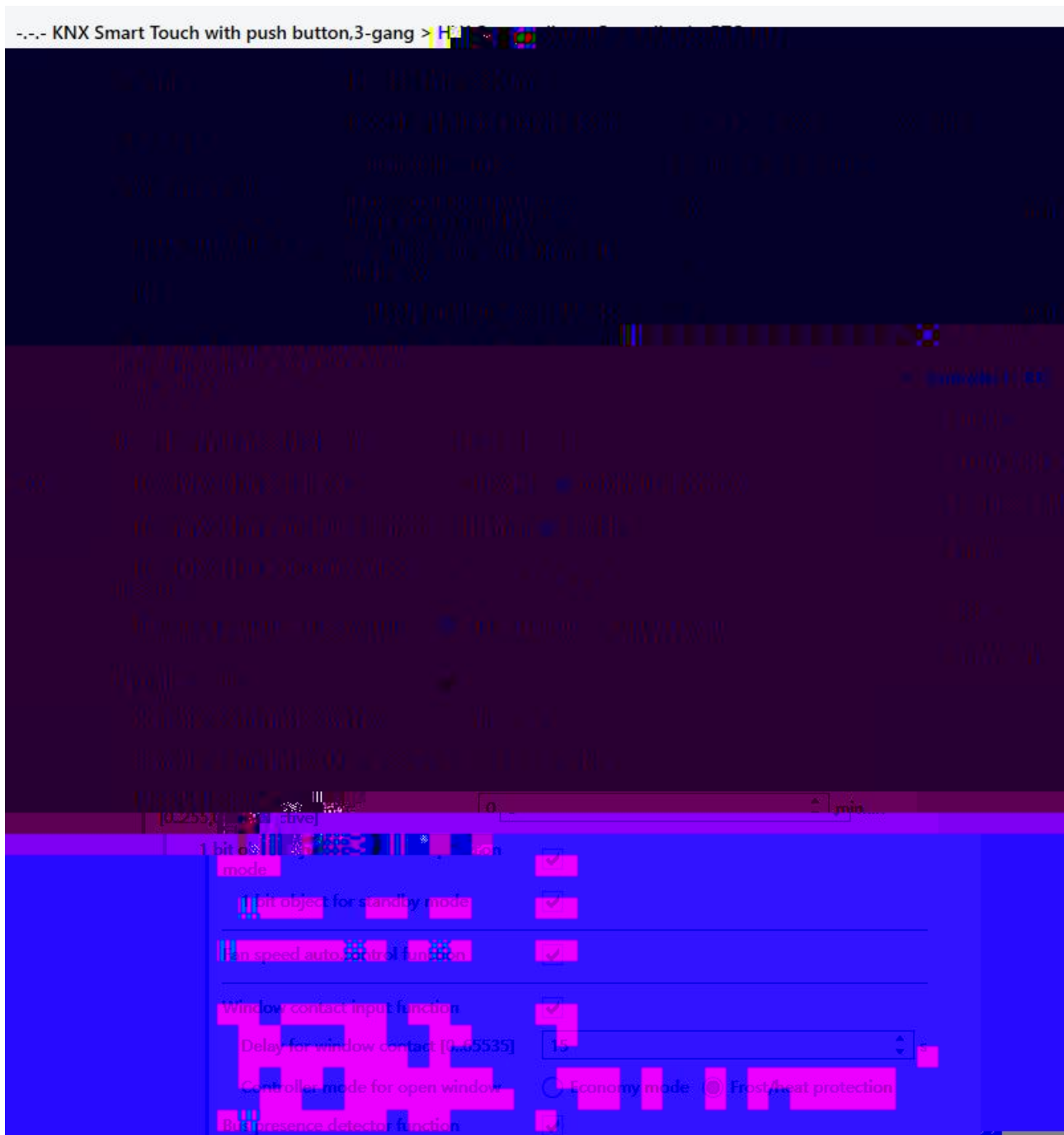


HVAC

6

- Disable
- Room temperature controller (RTC)
- Ventilation controller

#### 5.4.1. "Controller x - RTC"(x=1~6)



#### 5.4.1 "Controller x - RTC"

**"Description (max 30char.)"**

"Room temperature reference from"

**Internal sensor**

**External sensor**

**Internal sensor combine with External sensor**

"Internal sensor"

5.2

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

"...External sensor"

**0..255**

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

**"Combination ratio"**

**10% Internal to 90% External**

**20% Internal to 80% External**

**...**

**90% Internal to 10% External**

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

**40%**

**60%**

**=**

**×40% +**

**×60%**

**"Send temperature when the result change by"**

Disable

- Disable
- 0.5K
- 1.0K
- ...
- 10K

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

0 0..255

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

0..100

0 0 0

1

“Room temperature control mode”

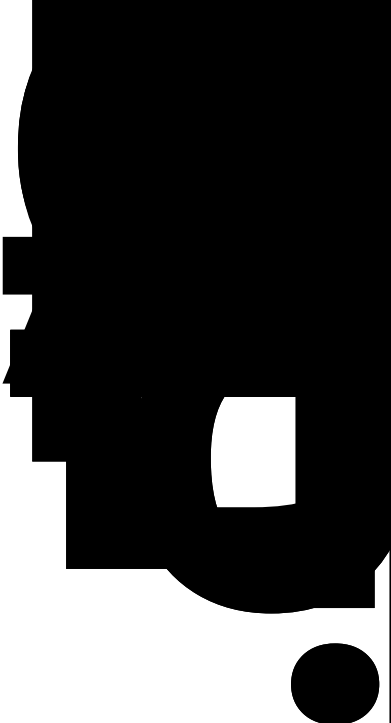
- Heating
- Cooling
- Heating and Cooling

“Heating and Cooling”

“Heating/Cooling switchover”

/

- Via object
- Automatic changeover



**“Controller status after download”**

RTC

**Comfort mode**

**Standby mode**

**Economy mode**

**“Controller status after voltage recovery”**

RTC

**Comfort mode**

**Standby mode**

**Economy mode**

**Frost/heat protection**

**As before voltage failure**

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

>0

1bit

“Extended comfort mode”

0..255

1

1

/

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

1bit 1

0

**“1 bit object for standby mode”**

1bit

**“Initial setpoint temperature (°C)”**

10.0

10.5

...

35.0

Automatic H/C mode changeover dead zone /

**“ Upper/Lower dead zone”**

“Heating and Cooling” “Automatic changeover”

/

0.5K

1.0K

...

10K

+

-

"Fan speed auto control function"

"Window contact input function"

RTC

"Delay for window contact [0..65535]s"

RTC

0..65535

"Controller mode for open window"

RTC

open

/

**Economy mode**

**Frost/heat protection**

"Bus presence detector function"

RTC

/

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

RTC

**5°C**

**6°C**

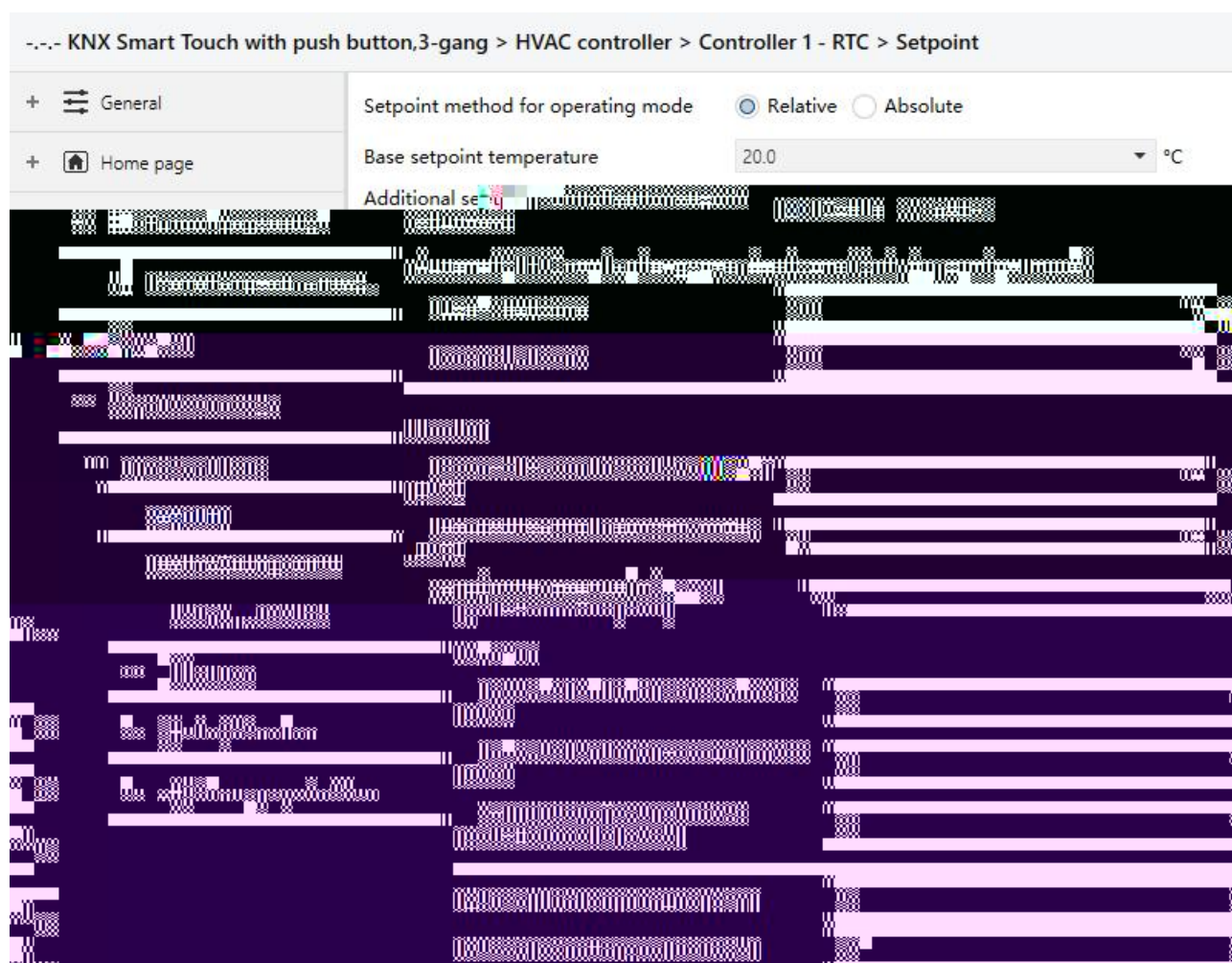
...

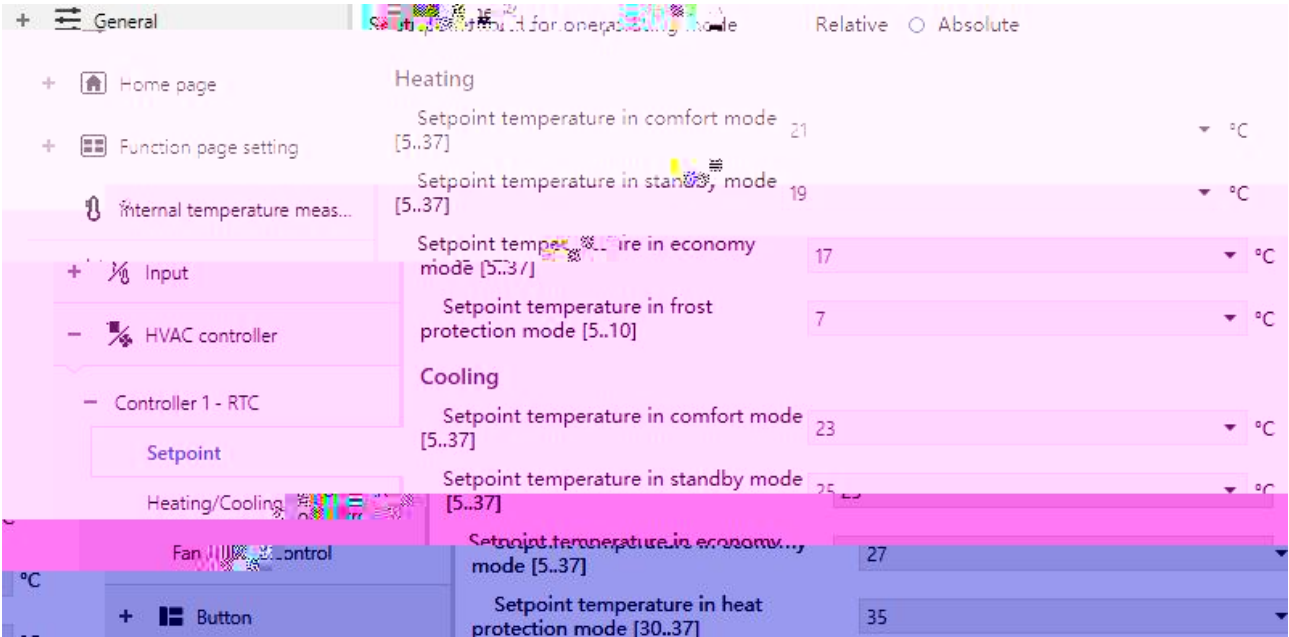
**37°C**

RTC

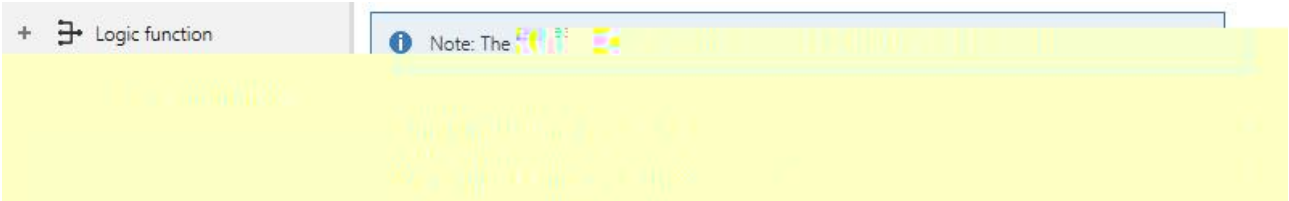
"Setpoint"

#### 5.4.1.1. "Setpoint"





(1)



(2)

5.4.1.1 "Setpoint"

RTC

"Setpoint method for operating mode"

Relative

Absolute

Relative

Absolute

"Base setpoint temperature (°C)"

10.0

10.5

...

35.0

“Base setpoint adjustment”

= +/-

“Additional setpoint offset for setpoint adjustment”

1bit

**Disable**

**Enable**

1bit “Setpoint offset” / 2byte “Float offset

value” 1bit “Setpoint offset reset”

2byte “Float offset value”

“Step of setpoint offset”

/ 1- 0-

0.5K

1K

= + +

/

1bit

Setpoint offset

2byte

Float offset value

“Min. setpoint offset [-10..0]K”

-10..0

“Max. setpoint offset [0..10]K”

0..10

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

“Upper/Lower dead zone”

“Heating and Cooling” “Automatic changeover”

0.5K

1.0K

...

10K

+

-

“Reduced heating in standby mode [0...10]K”

“Increased cooling in standby mode [0...10]K”

0K

1K

...

10K

Heating

Cooling

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

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

0K

1K

...

10K

Heating

Cooling

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

5°C

6°C

...

10°C

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

30°C

31°C

...

37°C

"Setpoint temperature in comfort mode [5...37] °C"

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

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

5 °C

6 °C

...

37 °C

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

5 °C

6 °C

...

10 °C

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

30 °C

31 °C

...

37 °C



Note: The f



Heating and Cooling

Automatic changeover

Via object

1.

2.

3.

/

4.

2 4

Via object

/

ETS

ETS

### 5.4.1.2. "Heating/Cooling control"

--- KNX Smart Touch with push button,3-gang > HVAC controller > Controller 1 - RTC > Heating/Cooling control

|                              |                                 |                                                               |
|------------------------------|---------------------------------|---------------------------------------------------------------|
| + General                    | Type of heating/cooling control | Switching on/off(use 2-point control)                         |
| + Home page                  | Invert control value            | <input checked="" type="radio"/> No <input type="radio"/> Yes |
| + Function page setting      | Heating                         |                                                               |
| Internal temperature meas... | Lower Hysteresis [0..200]       | 10 *0.1K                                                      |
|                              | Upper Hysteresis [0..200]       | 10 *0.1K                                                      |

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

|                              |                                 |                                                               |
|------------------------------|---------------------------------|---------------------------------------------------------------|
| + General                    | Type of heating/cooling control | Switching PWM(use PI control)                                 |
| + Home page                  | Invert control value            | <input checked="" type="radio"/> No <input type="radio"/> Yes |
| + Function page              | PWM cycle time [1..255]         | 15 min                                                        |
| Internal temperature meas... | Heating speed                   | User defined                                                  |
| + Input                      | Proportional range [10..100]    | 40 *0.1K                                                      |
| - HVAC controller            | Reset time [0..255]             | 150 min                                                       |
|                              | Cooling speed                   |                                                               |

"Switching PWM(use PI control)"

|                              |                                                     |                                                               |
|------------------------------|-----------------------------------------------------|---------------------------------------------------------------|
| +  General                   | Type of heating/cooling control                     | Continuous control(use PI control)                            |
| +  Home page                 | Invert control value                                | <input checked="" type="radio"/> No <input type="radio"/> Yes |
| +  Function page setting     | Heating speed                                       | User defined                                                  |
| Internal temperature meas... | Proportional range [10..100]                        | 40 *0.1K                                                      |
| +  Input                     | Reset time [0..255]                                 | 150 min                                                       |
| -  HVAC controller           | Cooling speed                                       | User defined                                                  |
| - Controller 1 - RTC         | Proportional range [10..100]                        | 40 *0.1K                                                      |
| Setpoint                     | Reset time [0..255]                                 | 150 min                                                       |
| Heating/Cooling control      | Send control value on change by [0..100,0=inactive] | 4 %                                                           |
|                              | Cyclically send control value [0..255]              | 10 min                                                        |

"Continuous control(use PI control)"

5.4.1.2(1) "Heating/Cooling control"

2 4

"Type of heating/cooling control"

/

Switching on/off(use 2-point control)

Switching PWM(use PI control)

Continuous control(use PI control)

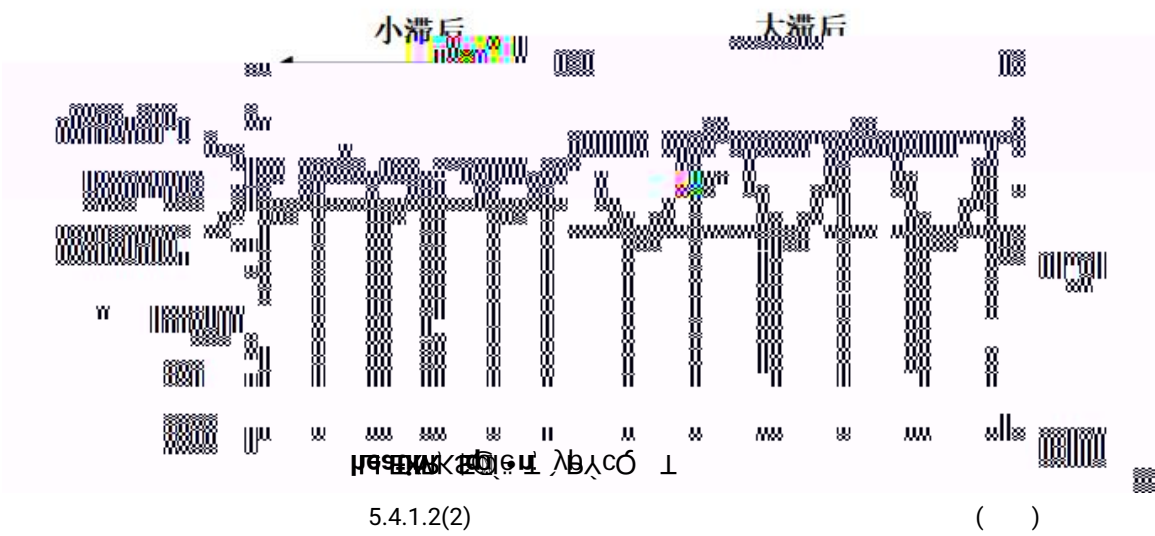
"Invert control value"

No

Yes

Yes





PI (PI control)

"Heating speed"

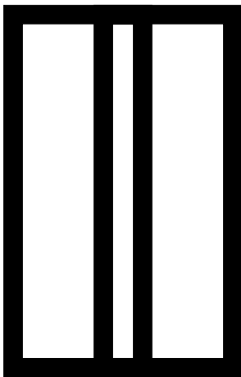
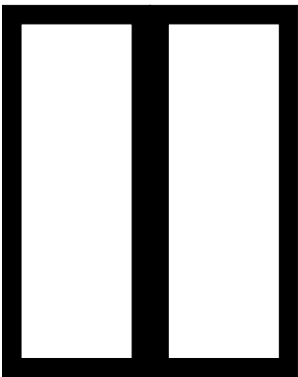
"Cooling speed"

PI

Hot water heating (5K/150min)

Underfloor heating (5K/240 min)

Electrical heating (4



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”

PI

PI

10..100 (P value)

0..255 (I value)

“PWM cycle time [1...255]min”

“Switching PWM(use PI control)”

10min,

80%

8min

2min

/

1..255

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

PI

“Continuous control”

PI

(1byte)

“Switching PWM”

PI

“on/off”

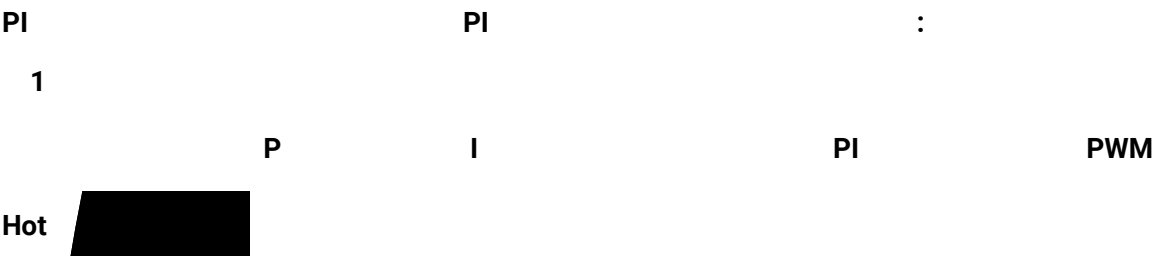
"Send control value on change by [0...100.0=inactive]%"

"Continuous control (use PI control)"

**0..100 0**

"Cyclically send control value [0...255]min"

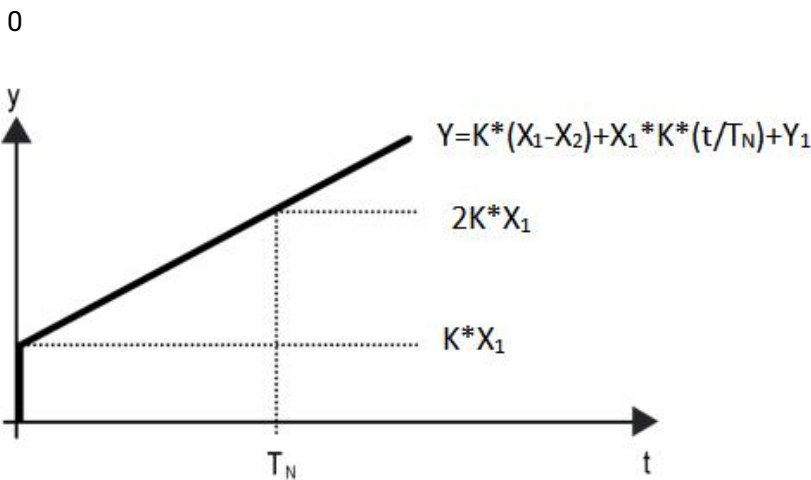
**0..255**



3

“Heating/Cooling speed” “User defined” P

I PI



5.4.1.2(3) PI

Y

Y1

X1 =

X2 =

T<sub>N</sub>

K

PI  $Y=K*(X_1-X_2 +X_1*K*t/T_N+Y_1$

PI  $Y=K X_1-X_2 +Y_2$

| K:               |  |
|------------------|--|
| K:               |  |
| T <sub>N</sub> : |  |
| T <sub>N</sub> : |  |

### 5.4.1.3. "Fan auto.control"

--- KNX Smart Touch with push button,3-gang > HVAC controller > Controller 1 - RTC > Fan auto.control

+ General  
+ Home page  
+ Function page setting

Auto. operation on object value ☒ Auto=1/Man.=0 ☐ Auto=0/Man.=1

Fan speed output setting

Object type or role fan speed ☐ Fan stage (DPT\_5.100) ☒ Percentage (DPT\_5.001)

Internal temperature meas...

+ Input  
- HVAC controller  
- Controller 1 - RTC  
Setpoint  
Heating/Cooling control  
Fan auto.control

Output value for fan speed low 33 %  
Output value for fan speed medium 67 %  
Output value for fan speed high 100 %  
1 bit object function for fan speed ☒  
1 bit object for fan speed off ☐

Fan speed control setting

Condition setting for using PI control

Threshold value speed OFF<-->low [1..255] 80

Threshold value speed low<-->medium [1..255] 150

Threshold value speed medium<-->high [1..255] 200

Hysteresis threshold value in +/- [0..50] 10

Condition setting for using 2-point control

Temperature difference speed OFF<-->low [1..200] 20 \*0.1K

Temperature difference speed low<-->medium [1..200] 30 \*0.1K

5.4.1.3 "Fan auto.control"

"Auto. operation on object value"

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" |

## Fan speed output setting

"Object datatype of 1byte fan speed"

1byte

**Fan stage (DPT 5.100)**

**Percentage (DPT 5.001)**

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

0

1..255 /1..100

"1 bit object function for fan speed"

1bit

1bit

"1 bit object for fan speed off "

1bit

## Fan speed control setting

Condition setting for using PI control      PI

PI

PI

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

1..255

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

1..255

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

1..255

OFF <-->

<-->

<-->

OFF <-->

<-->

<-->

<-->

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

0..50

0

10

50

60

+

40

-

40~60

40

(

)60

Condition setting for using 2-point control

2-point

-

-

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

1..200

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

1..200

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

1..200

"Hysteresis temperature difference in [0..50] \*0.1K"

0..50

0

0.5°C

1°C

1.5°C

+

0.5°C

-

0.5°C~1.5°C

0.5°C

( )1.5°C

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

**0..65535**

0



|               |                           |     |     |
|---------------|---------------------------|-----|-----|
| Auto=1/Man.=0 | "Fan automatic operation" | "0" | "1" |
| Auto=0/Man.=1 | "Fan automatic operation" | "1" | "0" |

"State of Auto.operation after startup"

**Disable**

**Enable**

## Fan speed output setting

"Object datatype of 1byte fan speed"

1byte

**Fan stage (DPT 5.100)**

**Percentage (DPT 5.001)**

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

0

1..255 /1..100

## Fan speed control setting

"Control value reference from"

**PM2.5**

**CO2**

**VOC**

"Object datatype of PM2.5/VOC"

PM2.5

VOC

PM2.5

VOC

**Value in ug/m3(DPT 7.001)**

**Float value in ug/m3(DPT 9.030)**

DPT\_7.001

DPT\_9.030

"Object datatype of CO2"

CO2

CO2

**Value in ppm(DPT 7.001)**

**Float value in ppm(DPT 9.008)**

DPT\_7.001

DPT\_9.008

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

**2min**

**0..255**

"The fan speed status when the control value error"

**Off**

**Low**

**High**

**1..999/1..4000**

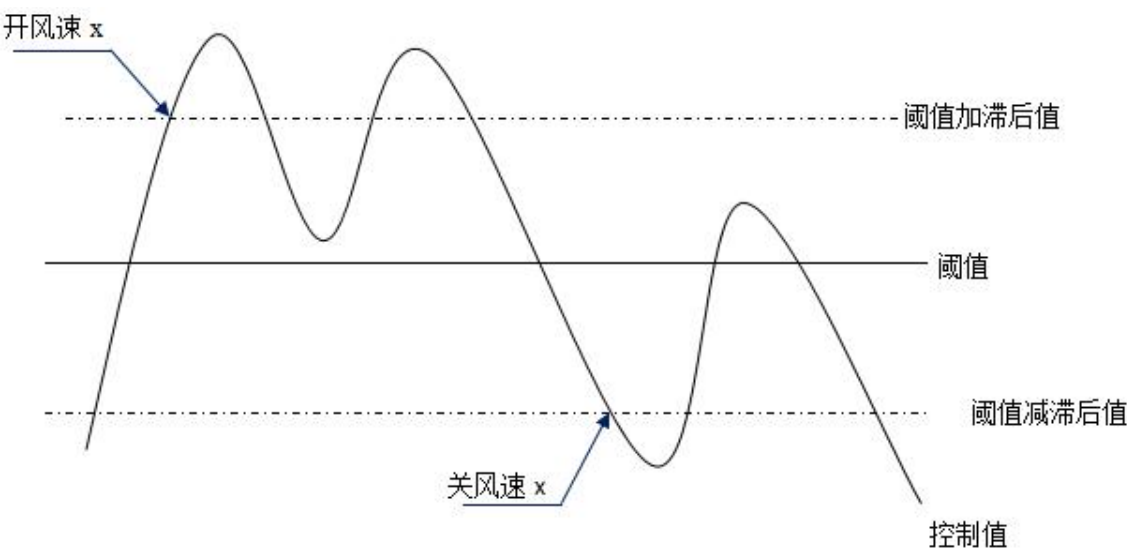
**1..999/1..4000**

**1..999/1..4000**

<->



5, ,Y@ iypÔ< x&fC^% m



1

2

1

PM2.5

OFF <->

35

<->

55

<->

75

25

OFF

OFF

60

25+35

60

55

75

50 <75-25

50 35 55

2

PM2.5

OFF <->

20

<->

40

<->

70

10

OFF

OFF

30 20+10

41

41 40 70

39

39 20 40

60 <70-10

39

39 20 40

3

0

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

0..65535

0

## 5.5. "Home page"

### 5.5.1. "Function"





5.5.1 "Function"

"Home page"

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

0 0..255

"The specified function page"

0

**Note: Invalid function page option**

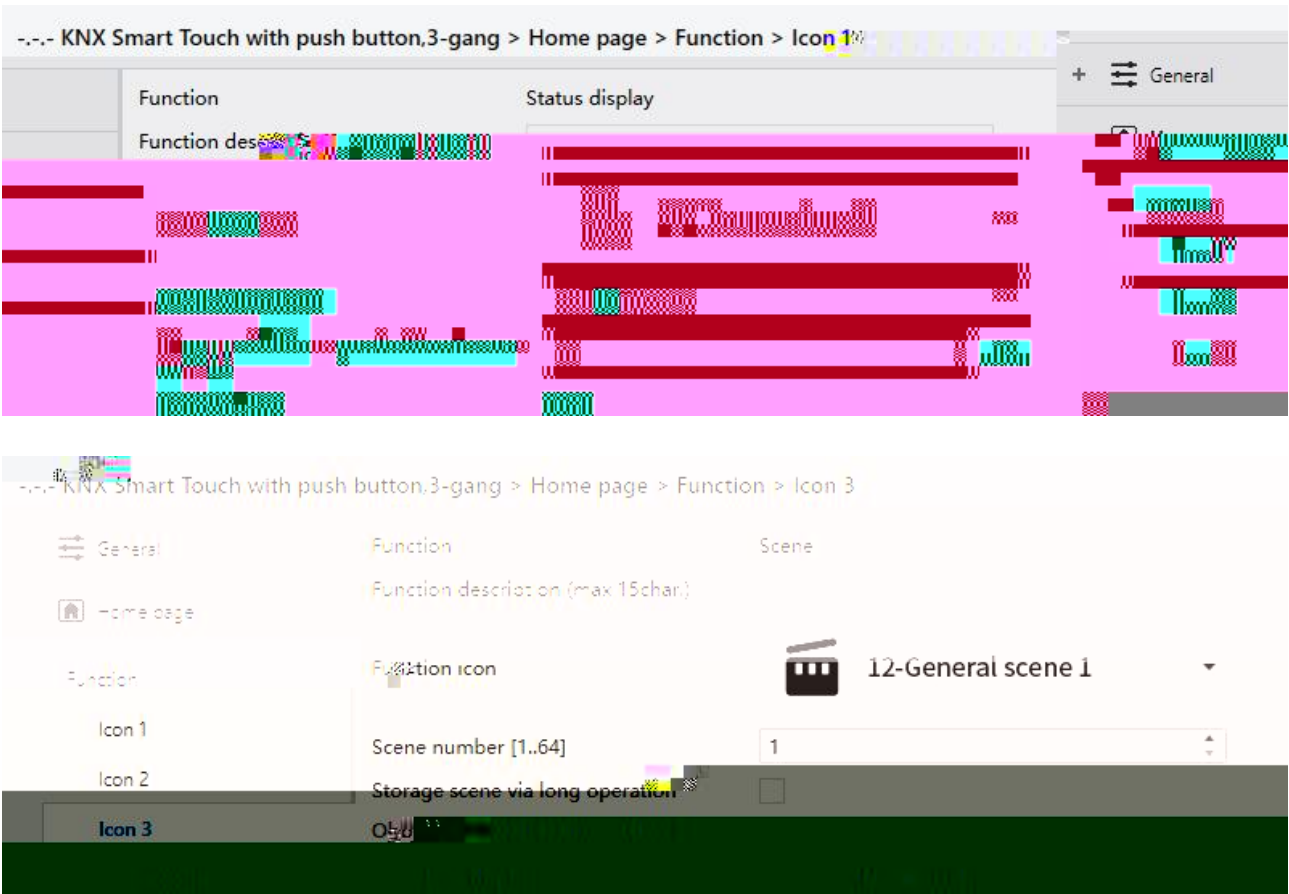
“Function”

**Status+Scene      4**

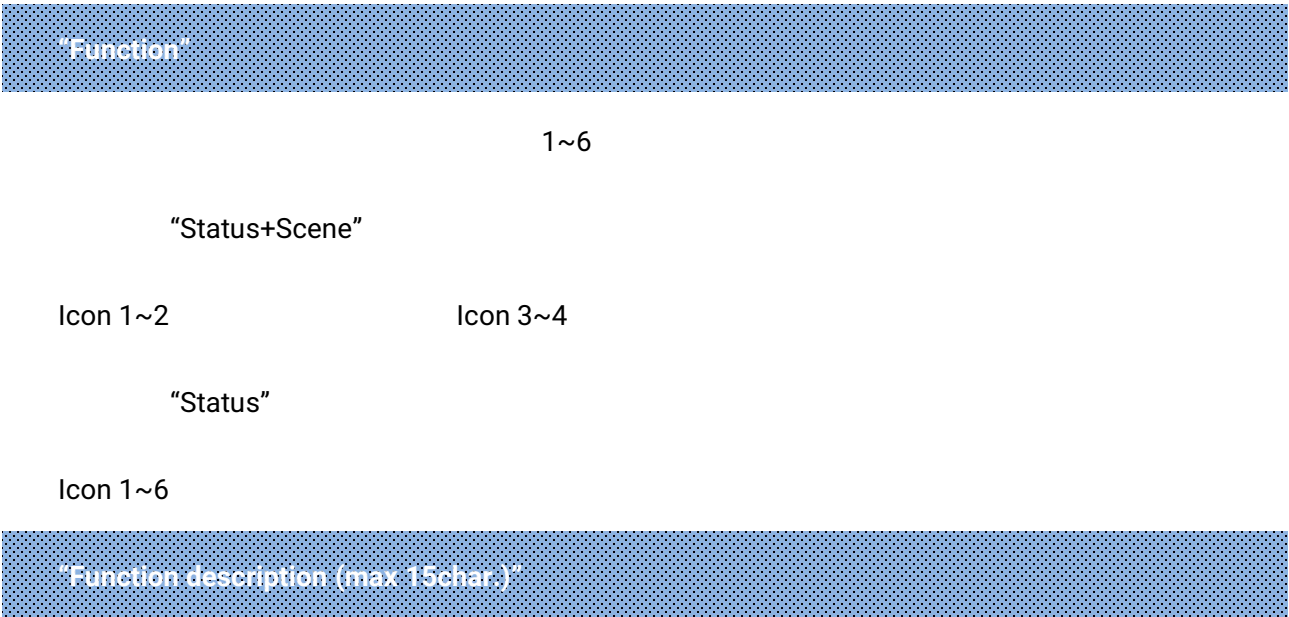
**Status              6**

“Icon x”(x=1~6)

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



5.5.2 "Icon x"



"Function icon"

**01-General light**

**02-Ceiling light**

...

**80-Floor light**

"Scene number [1..64]"

**1..64**

"Storage scene via long operation"

1

"Object with status feedback "

"Icon display"

**OFF**

**ON**

## “Display function”

# POST

**Int. temperature**

**Ext. humidity**

**VOC**

## Brightness

### Int. humidity

## PM2.5

**C02**

### Wind speed

Ext. temperature

## PM10

## AQI

## Rain

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

PM2.5/PM10/VOC

PM2.5/PM10/VOC

Value in ug/m3(DPT\_7.001)

**Float value in ug/m3(DPT\_9.030)**

“Object datatype of display CO2”

CO2

C02

**Value in pa**

"Object datatype of display brightness"

Brightness

**Brightness in lux(DPT\_7.013)**

**Float value in lux(DPT\_9.004)**

"Object datatype of display wind speed"

Wind speed

**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

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

0

0..255

"Icon display"

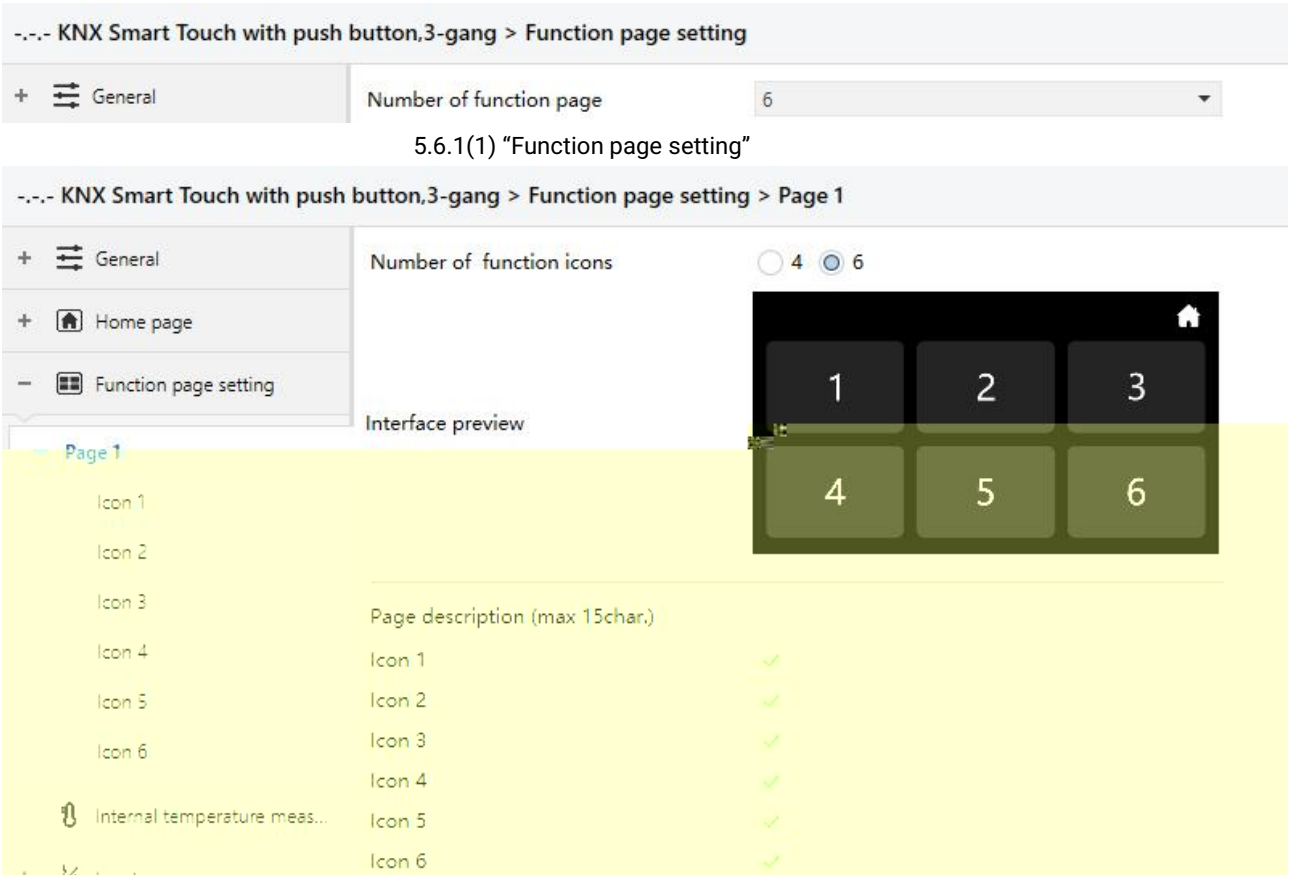
**ON**

5.6.

"Function page setting"

5.6.1.

"Page x"(x=1~6)



5.6.1(2) "Page x"

"Number of function page"

6

"Number of function icons"

6

4

6

"Page description (max 15char.)"

15

5

"Icon 1"(x=1~6)

## 5.6.2. "Icon x"(x=1~6)

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

|                          |                                    |                  |
|--------------------------|------------------------------------|------------------|
| +  General               | Function                           | Switch           |
| +  Home page             | Function description (max 10char.) |                  |
| -  Function page setting | Function icon                      | 01-General light |
| - Page 1                 |                                    |                  |

5.6.1 "Icon x"

"Function"

### 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

"Function icon"

01-General light

02-Ceiling light

...

80-Floor light

#### 5.6.2.1.

1.

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

|                          |                                             |                    |
|--------------------------|---------------------------------------------|--------------------|
| +  General               | Function                                    | Switch             |
| +  Home page             | Function description (max 10char.)          |                    |
| -  Function page setting | Function icon                               | 01-General light   |
| - Page 1                 | ***** Button-linked operation setting ***** |                    |
| Icon 1                   | Dynamic effect for switching                | 01-Lighting switch |
| Icon 2                   |                                             |                    |
| Icon 3                   |                                             |                    |
| Icon 4                   |                                             |                    |

KNX/E

2. /

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

|                          |                                    |                                                               |
|--------------------------|------------------------------------|---------------------------------------------------------------|
| +  General               | Function                           | Press/Release switch                                          |
| +  Home page             | Function description (max 10char.) |                                                               |
| -  Function page setting | Function icon                      | 01-General light                                              |
| - Page 1                 |                                    |                                                               |
| Icon 1                   | Work mode                          | <input checked="" type="radio"/> Press  ON / Release - OFF    |
| Icon 2                   | Icon display                       | <input type="radio"/> Press - OFF / Release - ON              |
|                          |                                    | <input type="radio"/> OFF <input checked="" type="radio"/> ON |

5.6.2.1 (2) /

"Work mode"

Press - ON / Release - OFF

Press - OFF / Release - ON

"Icon display"

OFF

ON

### 3. /

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

|                          |                                    |                  |
|--------------------------|------------------------------------|------------------|
| +  General               | Function                           | Relative dimming |
| +  Home page             | Function description (max 10char.) |                  |
| -  Function page setting | Function icon                      | 01-General light |
| - Page 1                 |                                    |                  |

Icon 1

Dimming mode ☒ Start-Stop dimming ☐ Step dimming

\*\*\*\*\* Button-linked operation setting \*\*\*\*\*

Dynamic effect for switching 02-Lighting dim

Status text for 1-ON (max 20char.) ON

Status text for 0-OFF (max 20char.) OFF

(1)

|                    |                                                |                 |
|--------------------|------------------------------------------------|-----------------|
| +  Input           | Dynamic effect for relative dimming            | 02-Lighting dim |
| +  HVAC controller | Status text for dimming brighter (max 20char.) | Brighter        |
| +  Button          | Status text for dimming darker (max 20char.)   | Darker          |
| +  Logic           |                                                |                 |

(2)



"Dimming mode"

**Start-Stop dimming**

**Step dimming**

Start-stop dimming

Steps dimming

**" Step size"**

"Step dimming"

**100%**

**50%**

...

**1.56%**

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

"Step dimming"

**0..25 0=**

/

/

/

/

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

**Disable**

01-Lighting switch

02-Lighting dim

...

16-Romantic

**"Status text for dimming brighter (max 20char.)"**

**"Status text for dimming darker (max 20char.)"**

#### 4. RGB / RGBW / RGBCW /

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

|                      |                                    |                                                                                                                |
|----------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------|
| General              | Function                           | RGB dimming                                                                                                    |
| General setting      | Function description (max 10char.) |                                                                                                                |
| Screen saver setting | Function icon                      | 08-RGB light                                                                                                   |
| Security setting     | Reaction on "off" operation        | <input type="radio"/> Only switch object send value 0<br><input type="radio"/> Brightness objects send value 0 |
| Night mode setting   | Object datatype                    | <input type="radio"/> 1x3byte    3x1byte                                                                       |

RGB

|                      |                                    |                                                                                                                |
|----------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------|
| General              | Function                           | RGBW dimming                                                                                                   |
| General setting      | Function description (max 10char.) |                                                                                                                |
| Screen saver setting | Function icon                      | 08-RGB light                                                                                                   |
| Security setting     | Reaction on "off" operation        | <input type="radio"/> Only switch object send value 0<br><input type="radio"/> Brightness objects send value 0 |
| Night mode setting   | Object datatype                    | <input type="radio"/> 1x6byte    4x1byte                                                                       |

RGBW

|                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>General</li> <li>General setting</li> <li>Screen saver setting</li> <li>Security setting</li> <li>Night mode setting</li> <li>Summer time setting</li> <li>Proximity setting</li> <li>Advanced setting</li> </ul> | <p>Function</p> <p>Function description (max 10char.)</p> <p>Function icon</p> <p>Reaction on "off" operation</p> <p>RGB object datatype</p> <p>Colour temperature control type</p> <p>Increase/Decrease step width</p> | <p>RGBCW dimming</p> <p>08-RGB light</p> <p> <input checked="" type="radio"/> Only switch object send value 0<br/> <input type="radio"/> Brightness objects send value 0         </p> <p> <input checked="" type="radio"/> 1x3byte <input type="radio"/> 3x1byte         </p> <p> <input checked="" type="radio"/> Normal...<br/> <input type="radio"/> Directly(with warm/cool white algorithm)         </p> <p>200</p> <p>Min. colour temperature [2000..7000] 2700 K</p> <p>Max. colour temperature [2000..7000] 6500 K</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

RGBCW

|                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>General</li> <li>General setting</li> <li>Screen saver setting</li> <li>Security setting</li> <li>Night mode setting</li> <li>Summer time setting</li> <li>Proximity setting</li> <li>Advanced setting</li> </ul> | <p>Function</p> <p>Function description (max 10char.)</p> <p>Function icon</p> <p>Reaction on "off" operation</p> <p>Colour temperature control type</p> <p>Increase/Decrease step width</p> <p>Min. colour temperature [2000..7000]</p> <p>Max. colour temperature [2000..7000]</p> | <p>Colour temperature dimming</p> <p>03-Downlight</p> <p> <input checked="" type="radio"/> Only switch object send value 0<br/> <input type="radio"/> Brightness objects send value 0         </p> <p> <input checked="" type="radio"/> Normal<br/> <input type="radio"/> Directly(with warm/cool white algorithm)         </p> <p>200 K</p> <p>2700 K</p> <p>6500 K</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                              |                              |                                 |
|------------------------------|------------------------------|---------------------------------|
| Icon 5                       | *****                        | Button-linked operation setting |
| Icon 6                       |                              |                                 |
| Internal temperature meas... | Dynamic effect for switching | 02-Lighting                     |
| ON                           |                              |                                 |
| OFF                          |                              |                                 |

RGB / RGBW / RGBCW /

5.6.2.1 (4)

"Reaction on "off "operation"

0

Only switch object send value 0

Brightness objects send value 0

"Object datatype"/"RGB object datatype "

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

RGB

RGBW

RGB

1x3byte 3byte RGB

3x1byte 1byte RGB

RGBW

1x6byte 6byte RGBW

4x1byte 1byte RGBW

"RGBCW dimming" "Colour temperature dimming"

"Colour temperature control type"

Normal

Directly(with warm/cool white algorithm)

**“Status feedback object”**

“Directly(with warm/cool white algorithm)”

**Brightness+Colour Temperature**

**Warm/cool white brightness**

Brightness+Colour Temperature      +

Warm/cool white brightness

“Increase/Decrease step width\*K”

100

200

500

1000

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

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

2000..7000

**RGB / RGBW / RGBCW /      /**

5.

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

|                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>+ General</li> <li>+ Home page</li> <li>- Function page setting <ul style="list-style-type: none"> <li>- Page 1 <ul style="list-style-type: none"> <li>Icon 1</li> <li>Icon 2</li> <li>Icon 3</li> <li>Icon 4</li> <li>Icon 5</li> <li>Icon 6</li> </ul> </li> </ul> </li> </ul> | <p>Function: Curtain step/move</p> <p>Function description (max 10char.):</p> <p>Function icon: 09-Curtain</p> <p>Icon display: <input type="radio"/> OFF <input checked="" type="radio"/> ON</p> <p>***** Button-linked operation setting *****</p> <p>Dynamic effect for moving: 03-Curtain</p> <p>Status text for 1-Close (max 20char.): Close</p> <p>Status text for 0-Open (max 20char.): Open</p>   |
| <ul style="list-style-type: none"> <li>+ General</li> <li>+ Home page</li> <li>- Function page setting <ul style="list-style-type: none"> <li>- Page 1 <ul style="list-style-type: none"> <li>Icon 1</li> <li>Icon 2</li> <li>Icon 3</li> <li>Icon 4</li> <li>Icon 5</li> <li>Icon 6</li> </ul> </li> </ul> </li> </ul> | <p>Function: Roller blind step/move</p> <p>Function description (max 10char.):</p> <p>Function icon: 10-Roller blind</p> <p>Icon display: <input type="radio"/> OFF <input checked="" type="radio"/> ON</p> <p>***** Button-linked operation setting *****</p> <p>Dynamic effect for moving: 04-Blind</p> <p>Status text for 1-Down (max 20char.): Down</p> <p>Status text for 0-Up (max 20char.): Up</p> |

|                          |                                             |                  |
|--------------------------|---------------------------------------------|------------------|
| +  General               | Function                                    | Curtain position |
| +  Home page             | Function description (max 10char.)          |                  |
| -  Function page setting | Function icon                               | 09-Curtain       |
| - Page 1                 | ***** Button-linked operation setting ***** |                  |
| Icon 1                   | Dynamic effect for moving                   | 03-Curtain       |
| Icon 2                   | Status text for 1-Close (max 20char.)       | Close            |
| Icon 3                   | Status text for 0-Open (max 20char.)        | Open             |
| Icon 4                   |                                             |                  |
| Icon 5                   |                                             |                  |

|                          |                                             |                       |
|--------------------------|---------------------------------------------|-----------------------|
| +  General               | Function                                    | Roller blind position |
| +  Home page             | Function description (max 10char.)          |                       |
| -  Function page setting | Function icon                               | 10-Roller blind       |
| - Page 1                 | ***** Button-linked operation setting ***** |                       |
| Icon 1                   | Dynamic effect for moving                   | 04-Blind              |
| Icon 2                   |                                             |                       |
| Icon 3                   |                                             |                       |
| Icon 4                   |                                             |                       |
|                          |                                             |                       |

|                          |                                             |                                  |
|--------------------------|---------------------------------------------|----------------------------------|
| +  General               | Function                                    | Venetian blind position and slat |
| +  Home page             | Function description (max 10char.)          |                                  |
| -  Function page setting | Function icon                               | 11-Venetian blind                |
| - Page 1                 | ***** Button-linked operation setting ***** |                                  |
| Icon 1                   | Dynamic effect for moving                   | 04-Blind                         |
| Icon 2                   | Status text for 1-Down (max 20char.)        | Down                             |
| Icon 3                   | Status text for 0-Up (max 20char.)          | Up                               |
| Icon 4                   |                                             |                                  |
| Icon 5                   |                                             |                                  |

**"Icon display"**

**"Curtain step/move" "Roller blind step/move"**

**OFF**

**ON**

**"Dynamic effect when button-linked operation for moving"**

**Disable**

**01-Lighting switch**

**02-Lighting dim**

**...**

**16-Romantic**

**"Status text for 1-Close (max 20char.)"**

**"Status text for 0-Open (max 20char.)"**

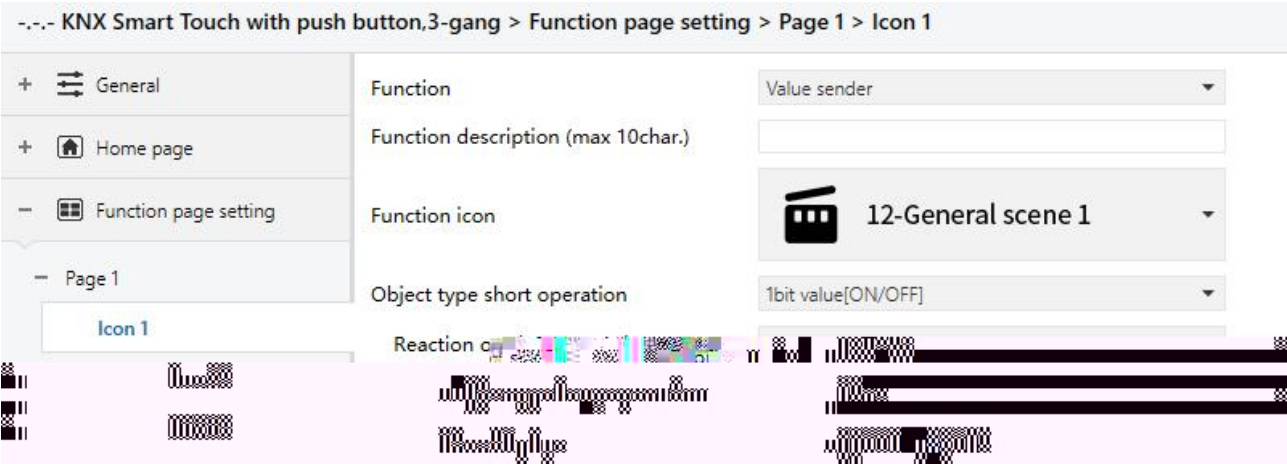
**/**

**"Status text for 1-Down (max 20char.)"**

**"Status text for 0-Up (max 20char.)"**

**/**

6.



5.6.2.1 (6)

“Object type short operation”

“Object type long operation”

/

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”

2bit

4bit

2bit value[0..3]

4bit value[0..15]

**"Reaction on short operation"**

**"Reaction on long operation"**

/

1bit

**OFF**

**ON**

**TOGGLE**

2bit/4bit/1byte/2byte/4byte

**Value 1**

**Alternating Value1/Value2**

**1/ 2**

**"Value 1"**

2bit/4bit/1byte/2byte/4byte

/

1

**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"**

/

2

**0~3 / 0..15 / 0..255 / 0..65535 / -670760~670760 /**

**0~4294967295 / -3.40...~3.40...**

**"Icon display"**

**OFF**

**ON**

7.

--- KNX Smart Touch with push button, 3- or 4-... Function page setting of Page 1 icon 1

|                              |                                             |                                                    |
|------------------------------|---------------------------------------------|----------------------------------------------------|
| General                      | Function                                    | Scene                                              |
| Home page                    | Function description (max 10char)           |                                                    |
| Function page setting        | Function icon                               | 12-General in scene 1                              |
| Page 1                       | Scene number [1..64]                        |                                                    |
| Icon 1                       | Storage scene via long operation            |                                                    |
| Icon 2                       | Object with status feedback                 |                                                    |
| Icon 3                       | Icon display                                | OFF <input type="radio"/> ON <input type="radio"/> |
| Icon 4                       | ***** Button-linked operation setting ***** |                                                    |
| Icon 5                       |                                             |                                                    |
| Icon 6                       | Dynamic effect for operation                | 05-Scene mode                                      |
| Internal temperature meas... | Status text (max 20char)                    |                                                    |

5.6.2.1 (7)

"Scene number [1..64]"

1..64

"Storage scene via long operation"

1

"Object with status feedback"

"Icon display"

OFF

ON

"Dynamic effect when button-linked operation"

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

**"Text for unit"**

1byte unsigned value      2byte

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

0..255

"Icon display"

1bit

OFF

ON

### 5.6.2.2.

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

| General               | Function                             | Air conditioner                                                                                      |
|-----------------------|--------------------------------------|------------------------------------------------------------------------------------------------------|
| Home page             | Function description (max 10char.)   |                                                                                                      |
| Function page setting | Function icon                        | 66 Air conditioner 1                                                                                 |
| Page 1                | Interface display temperature        | <input type="radio"/> Setpoint temperature<br><input checked="" type="radio"/> Actual temperature    |
| Icon 1                | Room temperature reference from      | <input checked="" type="radio"/> Internal sensor<br><input type="radio"/> External sensor            |
| Icon 2                | Object datatype                      | <input type="radio"/> Value in °C (DPT_5.010)<br><input type="radio"/> Float value in °C (DPT_9.001) |
| Icon 3                | Setpoint temperature adjustment step | 0.5K <input type="radio"/> 1K                                                                        |
| Icon 4                | Min. setpoint temperature [16..32]   | 16 °C                                                                                                |
| Icon 5                | Max. setpoint temperature [16..32]   | 32 °C                                                                                                |
| Icon 6                | Internal temperature meas...         |                                                                                                      |
| Input                 | Vanes swing                          | <input checked="" type="checkbox"/>                                                                  |
| Input                 | Timer                                | <input checked="" type="checkbox"/>                                                                  |
| HVAC controller       | ...                                  | <input checked="" type="checkbox"/>                                                                  |
| Button                | Send delay between telegrams         | 100ms                                                                                                |
| Logic                 | Protection setting                   |                                                                                                      |
| Scene Group           | ON/OFF protection                    | <input checked="" type="checkbox"/>                                                                  |
|                       | Setpoint protection                  | <input checked="" type="checkbox"/>                                                                  |
|                       | Control mode protection              | <input checked="" type="checkbox"/>                                                                  |
|                       | Fan protection                       | <input checked="" type="checkbox"/>                                                                  |
|                       | Vanes swing protection               | <input checked="" type="checkbox"/>                                                                  |

5.6.2.2(1)

"Interface display temperature"

Setpoint temperature

Actual temperature

"Room temperature reference from"

**Internal sensor**

**External sensor**

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

"External sensor"

**0..255**

"Object datatype of setpoint"

**Value in °C (DPT\_5.010)**

**Float value in °C (DPT\_9.001)**

**KNX**

"Setpoint temperature adjustment step"

**0.5K**

**1K**

"Value in °C (DPT\_5.010)"

**1K**

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

---

16°C

17°C

...

32°C

"Vanes swing"

"Timer"

"Scene"

**"Send delay between telegrams"**

Disable

100ms

300ms

500ms

#### **Protection setting**

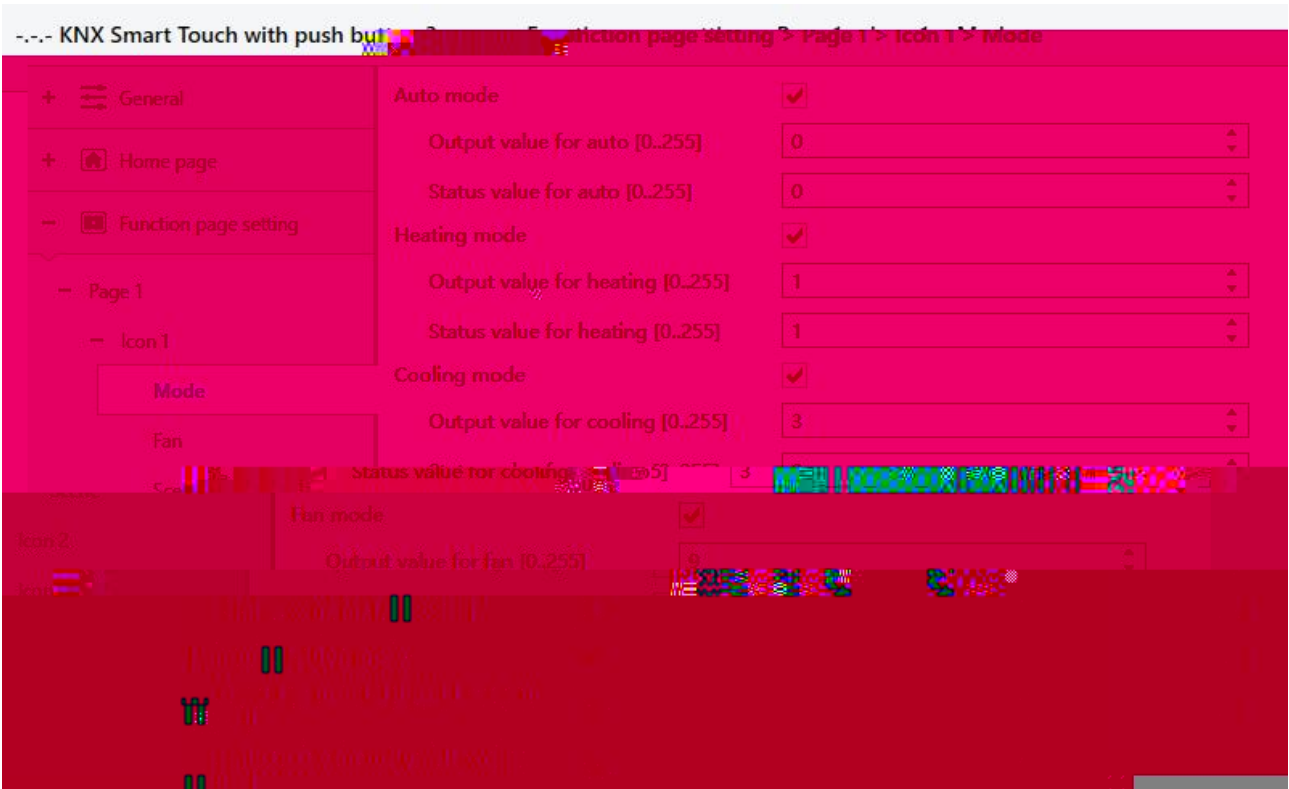
"ON/OFF protection"

"Setpoint protection"

"Mode protection"

"Fan protection"

“Vanes swing protection”



5.6.2.2(2) -

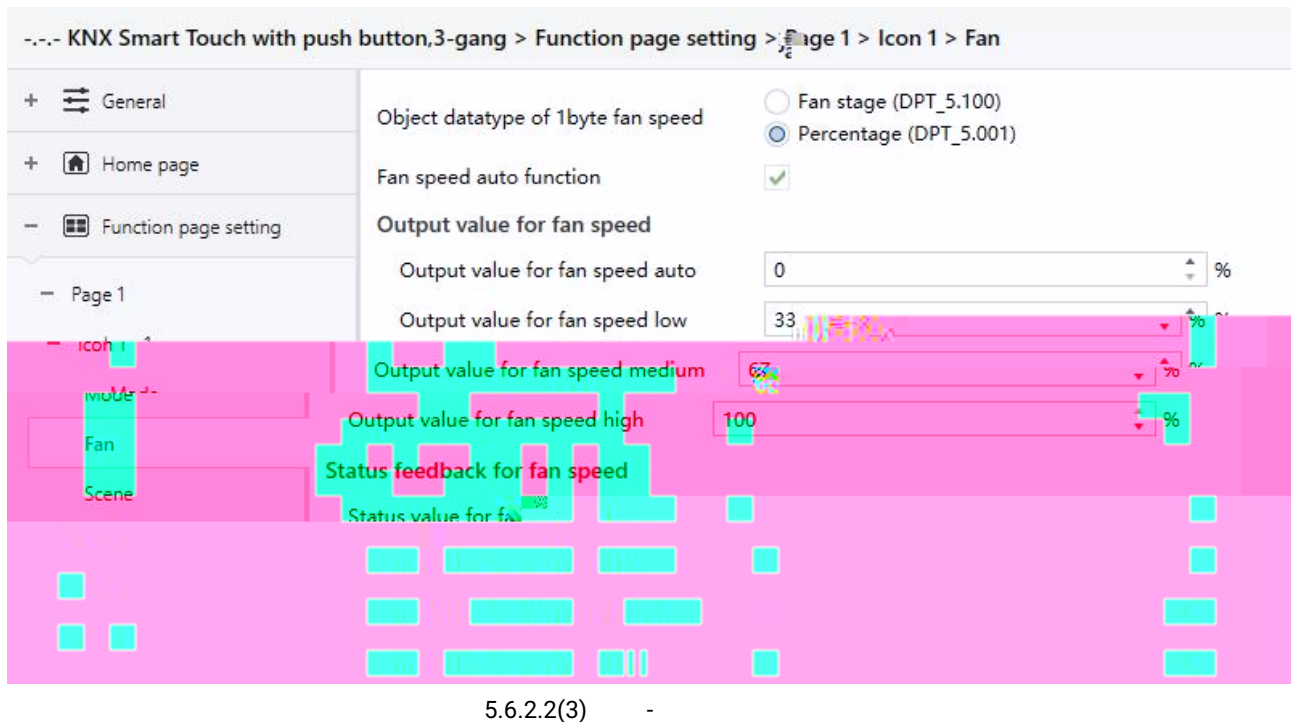
“Auto/Heating/Cooling/Fan/Dehumidification mode”

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

0..255

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

0..255



"Object datatype of 1byte fan speed"

1byte

Fan stage (DPT 5.100)

Percentage (DPT 5.001)

"Fan speed auto function"

Output value for fan speed

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

4

0..255/0..100

Status feedback for fan speed

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

4

0..255/0..100

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

|                                                                                                                                                                                                        |                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>+</div> <div>General</div> </div> <div> <div>+</div> <div>Home page</div> </div> <div> <div>---</div> <div>Function page setting</div> </div> <div> <div>---</div> <div>Page 1</div> </div> | <div>1-&gt;Assign scene NO.[1..64,0=inactive]</div> <div>1</div> <div>ON/OFF</div> <div>Unchange</div> <div>Temperature</div> <div>Unchange</div> <div>°C</div> <div>Mode</div> <div>Unchange</div> <div>Fan</div> <div>Unchange</div> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Icon 1

Icon 2

2->Assign scene NO.[1..64,0=inactive]

2

ON/OFF

Unchange

Temperature

Unchange

°C

Mode

Unchange

Fan

Unchange

5.6.2.2(4) -

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

5

0..64 0=

"ON/OFF"

- Unchange
- OFF
- ON
- OFF

"Temperature"

---

**Unchange**

**16°C**

**17°C**

**..**

**32°C**

**"Mode"**

**Unchange**

**Auto**

**Heating**

**Cooling**

**Fan**

**Temperature**

**"Fan"**

**Unchange**

**Auto**

**Low**

**Medium**

**High**

### 5.6.2.3.

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

|                          |                                    |                       |
|--------------------------|------------------------------------|-----------------------|
| +  General               | Function                           | Room temperature unit |
| +  Home page             | Function description (max 10char.) |                       |
| -  Function page setting | Function icon                      | Heating/Cooling       |

Page 1

Icon 1

Fan

Scene

Icon 2

Icon 3

Icon 4

Icon 5

Icon 6

Internal temperature meas...

+ Input

+ HVAC controller

+ Button

+ Logic

+ Scene Controller

Controller from

☒ Local ☐ Bus

Interface display temperature

☐ Setpoint temperature

☒ 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\_9.007)

Setpoint temperature adjustment step

☒ 0.5K ☐ 1K

Min. setpoint temperature [5..37]

5 °C

Max. setpoint temperature [5..37]

37 °C

Control mode

Heating and Cooling

Operation mode

☒

Fan

☒

Timer

☒

Scene

☒

Protection setting

ON/OFF protection

☒

Setpoint protection

☒

Control

5.6.2.3(1)

---

"Controller from"

OFF

ON

"Power on/off after voltage recovery"

OFF

ON

Before voltage failure

On

Off

Before voltage failure

"Object datatype of setpoint"

1bit (DPT\_1.007)

Float value in °C (DPT\_9.001)

"Setpoint temperature adjustment step"

"Value in °C (DPT\_5.010) "

0.5K

1K

Min. /Max. setpoint temperature [5..37]°C

"Control mode"

RTC

Heating

Cooling

Heating and Cooling

"Operation mode"

4

"Fan "

"Timer"

"Scene"

/

## Protection setting

"ON/OFF protection"

"Setpoint protection"

"Control mode protection"

"Operation mode protection"

"Fan protection"

Cooling

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

+ General

+ Home page

- Function page setting

- Page 1

- Icon 1

Fan

Scene

Icon 2

Icon 3

Object datatype of 1byte fan speed

Fan stage (DPT 5.100)

Percentage (DPT 5.001)

Output value for fan speed

Output value for fan speed low

33

%

Output value for fan speed medium

67

%

Output value for fan speed high

100

%

Status feedback for fan speed

Status value for fan speed low

33

%

Status value for fan speed medium

67

%

Status value for fan speed high

100

%

Automatic operation function

☐

5.6.2.3(2) -

"Object datatype of 1byte fan speed"

1byte

Fan stage (DPT 5.100)

Percentage (DPT 5.001)

Output value for fan speed

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

3

0..255/0..100

Status feedback for fan speed

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

3

0..255/0..100

"Automatic operation function"

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

|                                                                                                            |                                       |          |
|------------------------------------------------------------------------------------------------------------|---------------------------------------|----------|
| +  General                | 1->Assign scene NO.[1..64,0=inactive] | 1        |
| +  Home page              | ON/OFF                                | Unchange |
| -  Function page setting | Operation mode                        | Unchange |
| - Page 1                                                                                                   | 2->Assign scene NO.[1..64,0=inactive] | 2        |
| - Icon 1                                                                                                   | ON/OFF                                | Unchange |
|                                                                                                            | Operation mode                        | Unchange |

5.6.2.3(3) -

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

5

0..64 0=

"ON/OFF"

Unchange  
OFF  
ON

"Temperature"

Unchange=0  
5°C

---

6°C

..

37°C

"Operation mode"

**Unchange**

**Comfort mode**

**Standby mode**

**Economy mode**

**Frost/heat protection**

#### 5.6.2.4.



5.6.2.4

"Power on/off after download "

OFF

ON

"Power on/off after voltage recovery"

OFF

ON

Before voltage failure

On

Off

Before voltage failure

"Default fan speed after ventilation on"

Low

Medium

High

Last status

"Object datatype of 1byte fan speed"

1byte

Fan stage (DPT 5.100)

Percentage (DPT 5.001)

Output value for fan speed

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

3

0..255/0..100

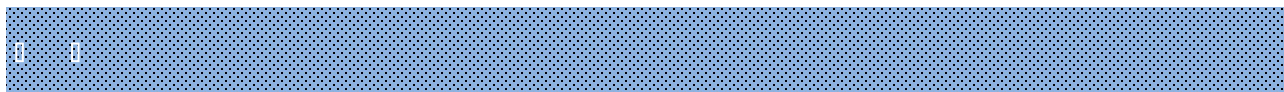
Status feedback for fan speed

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

3

---

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



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

5

0..64 0=

"Fan"

x

**Unchange**

**OFF**

**Low**

**Medium**

**High**

OFF

"Heat recovery"

x

**Unchange**

**OFF**

**ON**

### 5.6.2.5.

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

| General                                                                                                 | Function                           | Audio control |
|---------------------------------------------------------------------------------------------------------|------------------------------------|---------------|
| Home page                                                                                               | Function description (max 10char.) |               |
| Function page setting                                                                                   | Function icon                      | 72-Music 1    |
| Power on/off status after down                                                                          |                                    |               |
| OFF ON                                                                                                  |                                    |               |
| Power on/off status after voltage recovery                                                              |                                    |               |
| OFF                                                                                                     |                                    |               |
| Number of object for play/pause control                                                                 |                                    |               |
| <input checked="" type="radio"/> One object <input type="radio"/> Two objects                           |                                    |               |
| Control mode of volume adjustment                                                                       |                                    |               |
| <input checked="" type="radio"/> 1Bit (relative control) <input type="radio"/> 1Byte (absolute control) |                                    |               |
| Mute                                                                                                    |                                    |               |
| <input type="checkbox"/>                                                                                |                                    |               |
| Track name                                                                                              |                                    |               |
| <input type="checkbox"/>                                                                                |                                    |               |
| Artist name                                                                                             |                                    |               |
| <input type="checkbox"/>                                                                                |                                    |               |
| Album name                                                                                              |                                    |               |
| <input type="checkbox"/>                                                                                |                                    |               |
| Play mode                                                                                               |                                    |               |
| <input checked="" type="checkbox"/>                                                                     |                                    |               |
| Play in single cycle mode                                                                               |                                    |               |
| <input checked="" type="checkbox"/>                                                                     |                                    |               |
| Output value for play in single cycle                                                                   |                                    |               |
| 1                                                                                                       |                                    |               |
| Status value for play in single cycle                                                                   |                                    |               |
| 1                                                                                                       |                                    |               |
| Play in order mode                                                                                      |                                    |               |
| <input checked="" type="checkbox"/>                                                                     |                                    |               |
| Output value for play in order                                                                          |                                    |               |
| 2                                                                                                       |                                    |               |
| Status value for play in order                                                                          |                                    |               |
| 2                                                                                                       |                                    |               |
| Play in order                                                                                           |                                    |               |
| <input checked="" type="checkbox"/>                                                                     |                                    |               |

5.6.2.5

"Power on/off"

"Power on/off after download "

**OFF**

**ON**

"Power on/off after voltage recovery"

**OFF**

**ON**

**Before voltage failure**

On

Off

Before voltage failure

"Number of object for play/pause control"

/

1

2

**One object**

**Two objects**

"Control mode of volume adjustment"

**1Bit (relative control)**

**1Byte (absolute control)**

1bit

1byte

1byte



---

**"Output value for play in single cycle"**

**0..255**

**"Status value for play in single cycle"**

**0..255**

**"Play in order mode"**

**"Output value for play in order"**

**0..255**

**"Status value for play in order"**

**0..255**

**"Play in random mode"**

**"Output value for play in random"**

**0..255**

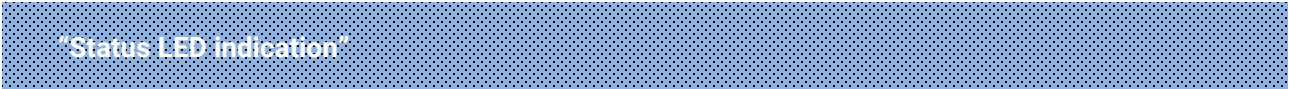
**"Status value for play in random"**

**0..255**

5.6.2.6. LED

|                              |                       |                                                       |
|------------------------------|-----------------------|-------------------------------------------------------|
| Internal temperature meas... | Status LED indication | ON when switch status on, OFF when switch status off  |
| Internal temperature meas... | LED indication colour | White                                                 |
| Internal temperature meas... | Status LED indication | ON when position status>0, OFF when position status=0 |
| Internal temperature meas... | LED indication colour | White                                                 |
| Input                        | Status LED indication | ON when recall/store the scene, otherwise OFF         |
| Input                        | LED indication colour | White                                                 |
| HVAC controller              | Status LED indication | Indicate press                                        |
| HVAC controller              | LED indication colour | White                                                 |

5.6.2.6 LED



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

□ □

"LED indication colour"

"Customized colour"

**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**

## 5.6.2.7.

|                                |  |
|--------------------------------|--|
| Icon 4                         |  |
| Icon 5                         |  |
| Icon 6                         |  |
| + Page 2                       |  |
| + Internal temperature meas... |  |
| + Input                        |  |
| + HVAC controller              |  |
| + Button                       |  |
| + Logic function               |  |
| + Scene Group function         |  |

Voice control setting

Voice control command

Voice control for brightness dimming

打开/关闭筒灯

☒

Voice control setting for RGB value

Command: 红色

Command: 绿色

Command: 蓝色

Command: 白色

Command: 黄色

Command: 橙色

Command: 紫色

Command: 青色

#FF0000

#00FF00

#0000FF

#FFFFFF

#FFFF00

#FF8000

#800080

#00FFFF

Voice control setting for colour temperature value

Command: 暖白光

Command: 自然光

Command: 正白光

☒

2700

4000

6000

Voice control setting

Voice control command

Voice control for curtain position

打开/关闭/停止窗帘

☒

Voice control setting

Voice control command

Voice control for blind position

打开/关闭/停止窗帘

☒

Voice control setting

Voice control command

☐ Disable ☒ 空调控制

Voice control setting

Voice control command

空调控制

Voice control setting

Voice control command

☒ Disable ☐ 新风控制

Voice control setting

Voice control command

Disable

音乐控制

5.6.2.7

/

Voice control setting

"Voice control command"

"Disable"

"Disable"

"Switch" "Relative dimming" "Brightness dimming" "RGB dimming" "RGBW dimming"

"RGBCW dimming" "Colour temperature dimming"

Disable

/

/

...

/

"Curtain step/move" "Roller blind step/move" "Curtain position" "Roller blind position"

"Venetian blind position and slat"

Disable

/ /

/ /

/ /

"Some"

## Disable

...

“Room temperature unit” ☐

"

0 0 0 0 0 0 0      0      0 0 0 0 0 0  
0 0 0 0 0 0 0 0 0 0      0

"Voice control for brightness dimming"

"Brightness dimming" "RGBW dimming" "RGBCW dimming" "Colour temperature dimming" "Disable"

**i** 灯光亮度百分比控制方法：先对设备进行基本命令控制，并在设定的间隔时间内说出百分比语言命令，如先说"打开筒灯"，然后再说"调至50%"

**ETS**

"Voice control for curtain position"

"Curtain position" "Disable"

"Voice control for blind position"

"Roller blind position" "Venetian blind position and slat" "Disable"

**i** 窗帘行程百分比控制方法：先对设备进行基本命令控制，并在设定的间隔时间内说出百分比语言命令，如先说"打开窗帘"，然后再说"调至50%"

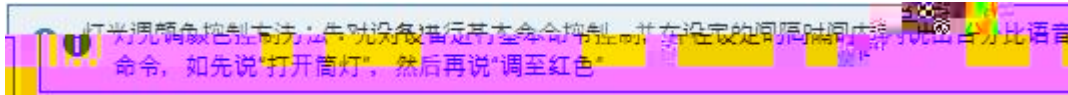
**ETS**

**RGB**

"Voice control setting for RGB value"

"RGB dimming" "RGBW dimming" "RGBCW dimming" "Disable"

RGB



**ETS**

“Command: / / / / / / / / ”

**#000000 ...#FFFFFF**

"Voice control setting for colour temperature value"

“RGBCW dimming”    “Colour temperature dimming”

“Disable”

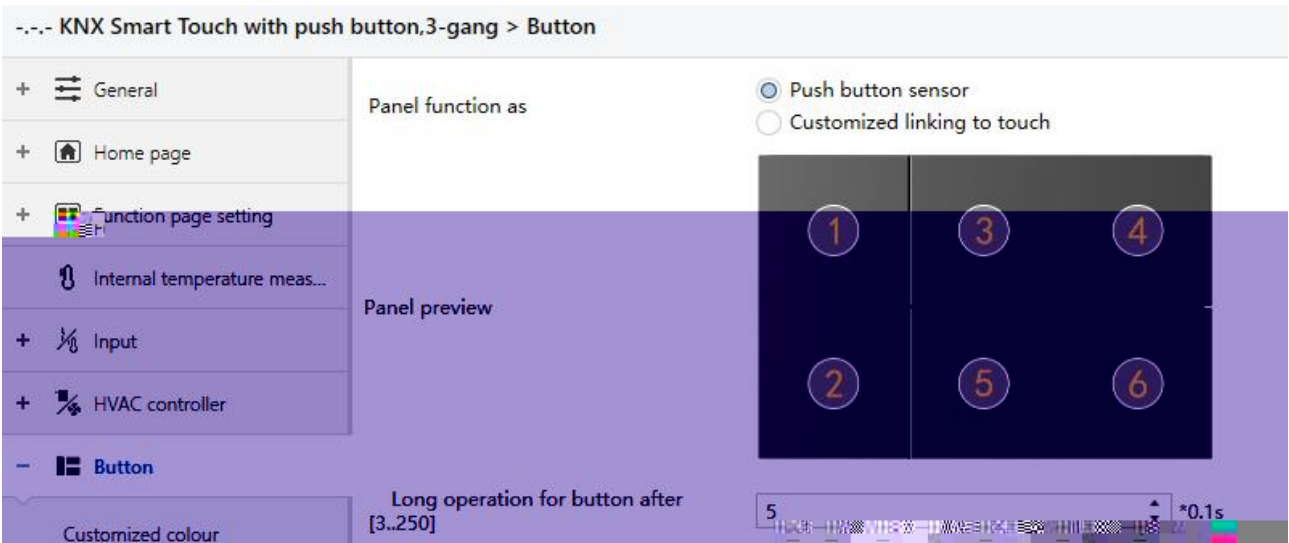


**ETS**

“Command:           /       /       ”

**2000..7000**

5.7. "Button"



5.7 "Button"

"Panel function as"

Push button sensor

Customized linking to touch

Push button sensor

1bit/1byte

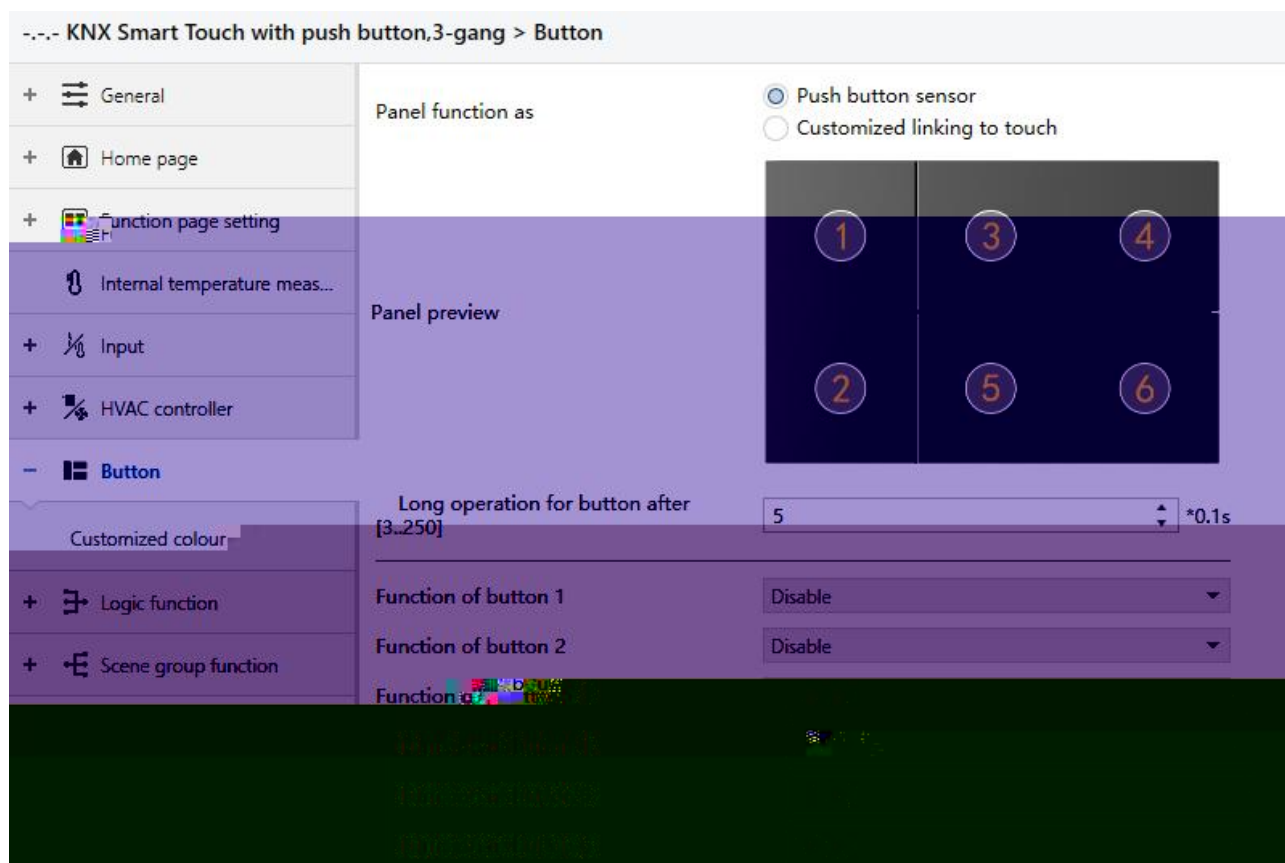
Customized linking to touch

" Long operation for button after [3..250]\*0.1s"

3..250

### 5.7.1.

#### "Push button sensor"



5.7.1

#### "Function of button x" (x=1~6)

Disable

Switch

Dimming

Value sender

Scene control

Blind

Shift register

Multiple operation

Delay mode

RTC operation mode

String(14bytes)

5.7.1.1.

--- KNX Smart Touch with push button,3-gang > Button > Btn 1 - Switching

|                              |                                              |                                                               |
|------------------------------|----------------------------------------------|---------------------------------------------------------------|
| +  General                   | Description (max 30char.)                    | <input type="text"/>                                          |
| +  Home page                 | Distinction between short and long operation | <input checked="" type="radio"/> No <input type="radio"/> Yes |
| +  Function page setting     | Reaction on press operation                  | TOGGLE                                                        |
| Internal temperature meas... | Reaction on release operation                | No reaction                                                   |
| +  Input                     | Disable function                             | Disable                                                       |

5.7.1.1

"Description (max 30char.)"

30

"Distinction between short and long operation"

/

No

Yes

"Yes"

"Reaction on short/press operation"

"Reaction on long/release operation"

/

/

No reaction

OFF

ON

TOGGLE

No reaction

ON

OFF

TOGGLE

"Number of objects"

"Reaction on long/release operation"

"No reaction"

1

2

1

2

"Disable function"

/

Disable

Disable=1/Enable=0

Disable=0/Enable=1

"Status LED indication when button disable"

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

No

Flashing

No

Flashing

“Enable”

1s

1s

“LED indication colour”

“Flashing”

“Customized colour”

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

### 5.7.1.2.

+
General

+
Home page

+
Function page setting

Internal temperature meas...

+
1/4 Input

Description (max 30char.)

Reaction on short operation

Reaction on long operation

Dimming mode

Disable function

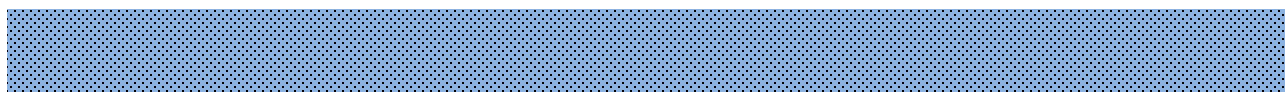
TOGGLE

Brighter/Darker

☒ Start-Stop dimming
☐ Step dimming

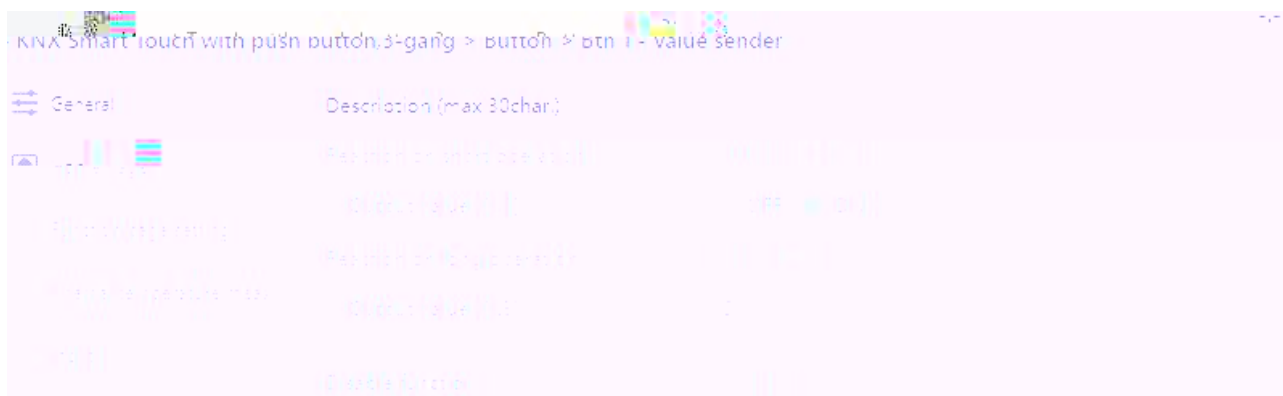
Disable

### 5.7.1.2





### 5.7.1.3.



5.7.1.3

"Reaction on short operation"

"Reaction on long operation"

/

**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"

/



### "Number of objects"

"Reaction on long operation"

"No reaction"

1

2

1

2

### 5.7.1.5.

--- KNX Smart Touch with push button,3-gang > Button > Btn 1 - Blind

|                              |                                                |                        |
|------------------------------|------------------------------------------------|------------------------|
| +  General                   | Description (max 30char.)                      | <input type="text"/>   |
| +  Home page                 | Reaction on short operation                    | Stop(Adjust Up/Down) ▼ |
| +  Function page setting     | Reaction on long operation                     | Stop(Adjust Up) ▼      |
| Internal temperature meas... | Int...tele. cyclic send<br>[0..25,0=send once] | 0 ▲▼ *0.1s             |
| +  Input                     | Disable function                               | Disable ▼              |

5.7.1.5

### "Reaction on short operation"

### "Reaction on long operation"

**No reaction**

**Up**

**Down**

**Up/Down**

**Stop(Adjust Up)**

**Stop(Adjust Down)**

**Stop(Adjust Up/Down)**

No reaction

Up

Down

Up/Down /

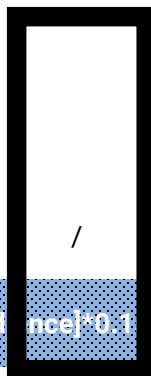
Stop (Adjust Up)

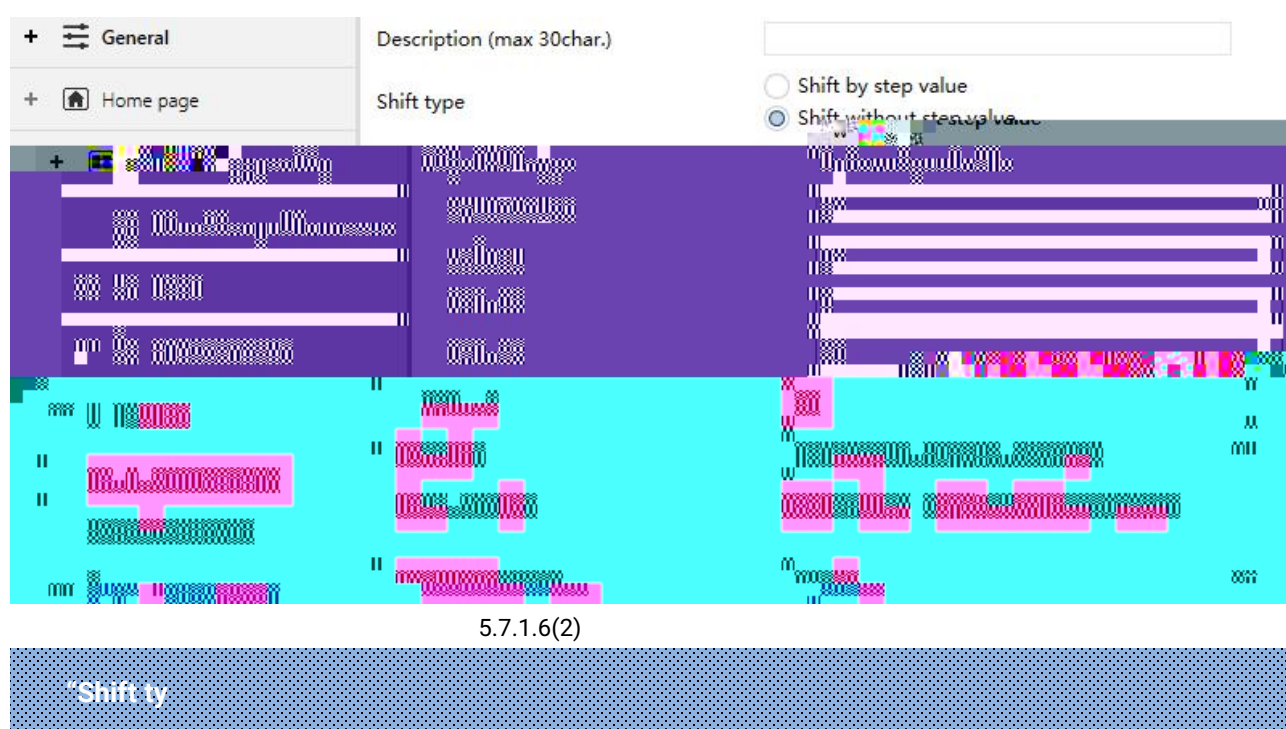
Stop (Adjust Down)

Stop (Adjust Up/Down) /

"Interval of tele. cyclic send [0..25,0=send nce]\*0.1"

"Stop..."





**"Step size"**

**0..240**

**"Shift without step value"**

**"Object datatype"**

**1byte unsigned value**

**"Shift number"**

10

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

**"Value x"(x=1~10)**

**0..255**

**"Direction"**

**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

From highest to lowest and stop to the begin

From lowest to highest and cyclically

From highest to lowest and cyclically

### "Reset function"

**Disable**

**Enable by long operation**

Disable

Enable by long operation

#### 5.7.1.7.

--- KNX Smart Touch with push button,3-gang > Button > Btn 1 - Multiple operation

|                                   |                             |                                                                               |
|-----------------------------------|-----------------------------|-------------------------------------------------------------------------------|
| +  General                        | Description (max 30char.)   | <input type="text"/>                                                          |
| +  Home page                      | Object type for object1     | 1Bit_On/Off ▼                                                                 |
| +  Function page setting          | Function of short operation | TOGGLE ▼                                                                      |
| Internal temperature meas...      | Function of long operation  | No reaction ▼                                                                 |
| +  Input                          | Object type for object2     | 1Bit_Up/Down ▼                                                                |
| +  HVAC controller                | Function of short operation | Up/Down ▼                                                                     |
| -  Button                         | Function of long operation  | No reaction ▼                                                                 |
| <b>Btn 1 - Multiple operation</b> | Object type for object3     | 1Byte_RecallScene ▼                                                           |
| Customized colour                 | Function of short operation | <input type="radio"/> No reaction <input checked="" type="radio"/> Send Value |
| +  Logic                          | Value 1 (Scene NO.)         | Scene No.1 ▼                                                                  |
| +  Scene Group                    | Function of long operation  | <input checked="" type="radio"/> No reaction <input type="radio"/> Send Value |
|                                   | Object type for object4     | 1Byte_Percentage ▼                                                            |
|                                   | Function of short operation | <input type="radio"/> No reaction <input checked="" type="radio"/> Send Value |
|                                   | Value 1 (Percentage)        | 30 %                                                                          |
|                                   | Function of long operation  | <input checked="" type="radio"/> No reaction <input type="radio"/> Send Value |
|                                   | Disable function            | Disable ▼                                                                     |

#### 5.7.1.7

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

/

**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

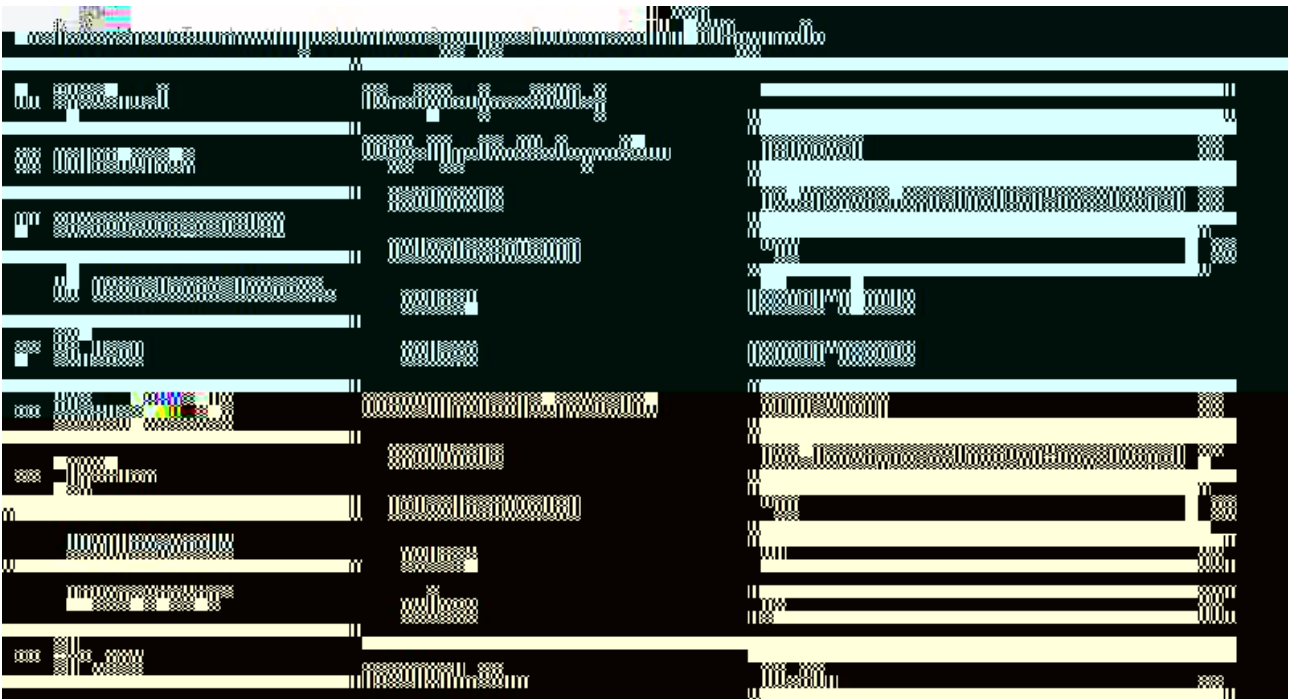
(Send Value

)

"Value x..."(x=1~2)

"1byte\_RecallScene""1byte\_StoreScene""1byte\_Percentage""1byte\_Unigned value"

5.7.1.8.



5.7.1.8

“Object type for short operation”

“Object type for long operation”

/

Disable

1Bit\_On/Off

4Bit\_Dimming

1Byte\_Unsigned value

“ Send mode”

|                                                    |     |
|----------------------------------------------------|-----|
| 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"

0..6500

"Value x"(x=1~2)

1/2

5.7.1.9.



5.7.1.9

"Object type for output"

1bit

1byte

“die

**5.7.1.10. (14bytes)**



5.7.1.10 (14bytes)

“Reaction on short operation”

“Reaction on long operation”

/

No reaction

Send Value

“String (14byte) value”

“No reaction”

### 5.7.1.11. LED

|                               |                                 |
|-------------------------------|---------------------------------|
| Status LED indication         | Control by button switch object |
| When object value="0", LED is | OFF                             |
| When object value="1", LED is | Blue                            |

Control by button switch object

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| Status LED indication         | Control by external object                                        |
| External object datatype      | <input checked="" type="radio"/> 1bit <input type="radio"/> 1byte |
| When object value="0", LED is | OFF                                                               |
| When object value="1", LED is | Blue                                                              |

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| Status LED indication                     | Control by external object                                        |
| External object datatype                  | <input type="radio"/> 1bit <input checked="" type="radio"/> 1byte |
| Threshold value is                        | 50                                                                |
| If object value < threshold value, LED is | OFF                                                               |
| If object value = threshold value, LED is | Red                                                               |
| If object value > threshold value, LED is | Red                                                               |

Control by external object

|                                     |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| Status LED indication               | Indicate button press                                              |
| When press the button, indicator is | <input checked="" type="radio"/> On <input type="radio"/> Flashing |
| On duration time is                 | 1s                                                                 |
| LED indication colour               | Red                                                                |

|                                     |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| Status LED indication               | Indicate button press                                              |
| When press the button, indicator is | <input type="radio"/> On <input checked="" type="radio"/> Flashing |
| Flashing period time is             | 0.8 s                                                              |
| Normal indication is                | <input checked="" type="radio"/> OFF <input type="radio"/> ON      |
| LED indication colour               | Red                                                                |

Indicate button press

|                       |           |
|-----------------------|-----------|
| Status LED indication | Always on |
| LED indication colour | Red       |

Always on

### 5.7.1.11 LED

"Status LED indication"

LED

Disable



BU

Control by external

Indicate button press

When object varies

LED

Control by button switch

object

**LED**

**"Control by external object"**

**"External object datatype"**

**1bit**

**1byte**

**1bit**

**"When object value="0", LED is"**

**"When object value="1", LED is"**

**1bit**

**LED**

**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**

**"Threshold value is"**

**1..255**

**"If object value<threshold value, LED is"**

**" If object value=threshold value, LED is"**

**" If object value>threshold value, LED is"**

LED

**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"**

**" When press the button,indicator is"**

LED

**On**

**Flashing**

**On**

**"On duration time is"**

LED

**500ms**

**1s**

2s

3s

Flashing

“Flashing period time is”

LED

0.4s

0.8s

...

2.0s

“Normal indication is”

LED

LED

OFF

ON

LED “Indicate button press” “Always on”

“LED indication colour”

LED

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



"Button 1& 2 use as"

"Button 3& 4 use as"

"Button 5& 6 use as"

**Independent button**

**Link button**

"Independent button"

1 2

"Link button"

1&2

**Independent button**



Note: If the icon function of touch to link is "Relative/Brightness dimming" or "..curtain/blind..", it must be used as link button. Otherwise, the setting of the order button (1 or 2 or 3 or 4 or 5 or 6) will be ignored even no matter what it set.

**Relative/Brightness dimming**

**..curtain/blind..**

2 4 6

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

"Independent button"

**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"

None

Link to icon in page 1

Link to icon in page 2

...

Link to icon in page 6

ETS

icon

"Icon number"

4 6

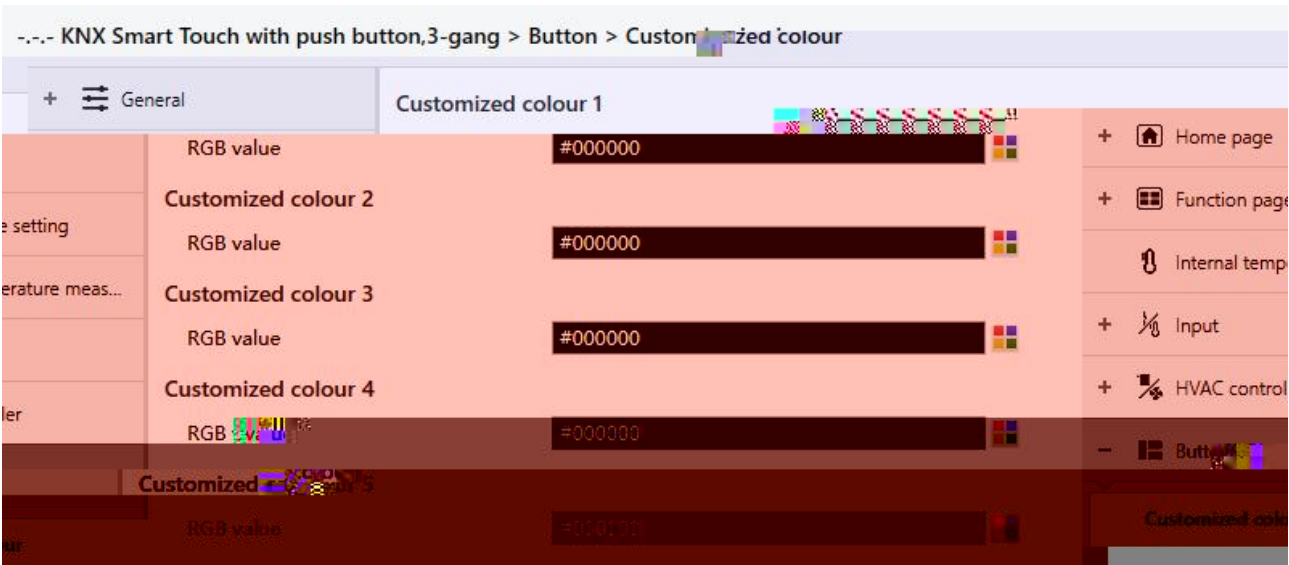
1

2

...

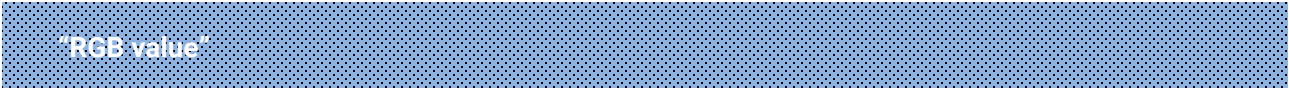
6

5.7.3. “Customized colour”



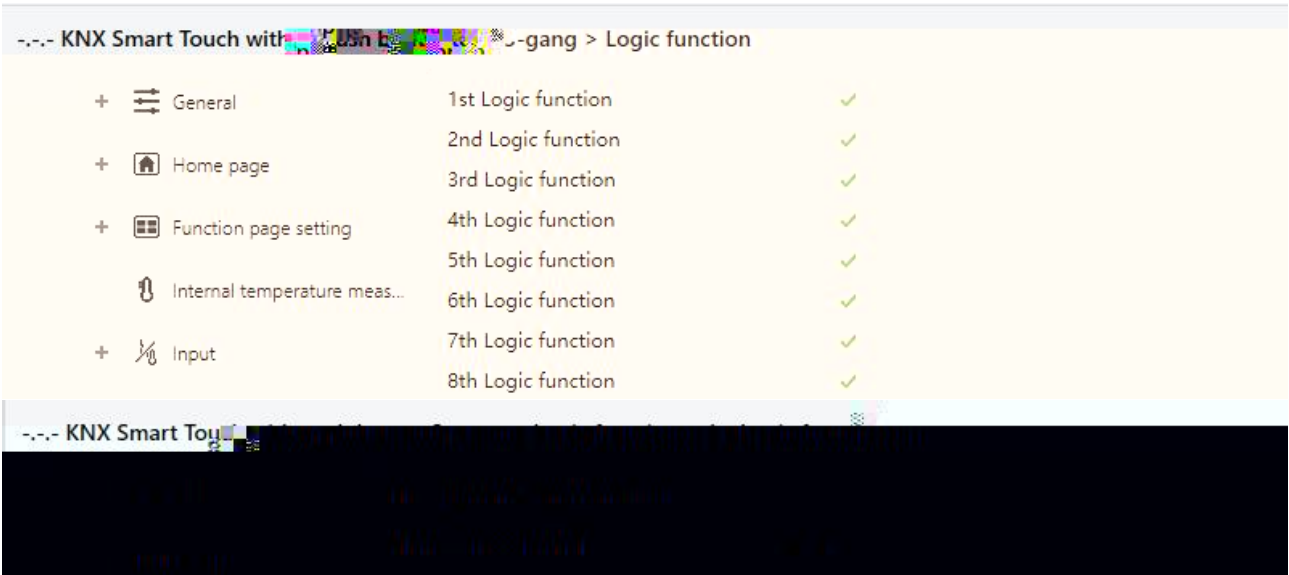
5.7.3 “Customized colour”

Customized colour x (x=1~5)



LED 5 #000000 ....#FFFFFF

5.8. “Logic”



6.6 “Logic function setting”

“1st/2nd/3rd... Logic function”

8

“Description for logic function”

30

“Function of channel”

AND

OR

XOR

Gate forwarding

Threshold comparator

Format convert

---

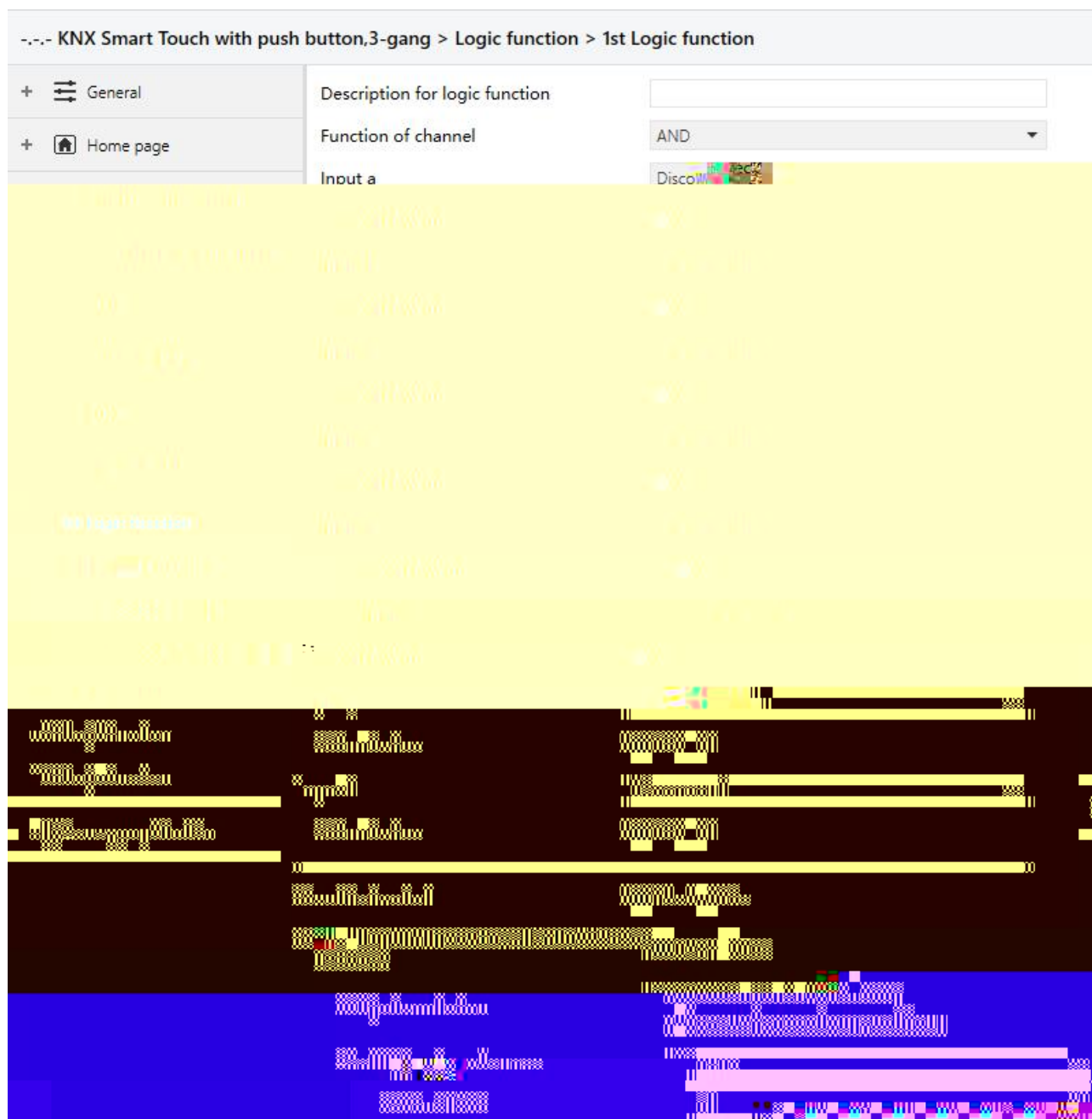
**Gate function**

**Delay function**

**Staircase lighting**

AND/OR/XOR

### 5.8.1. "AND/OR/XOR"



5.8.1 "AND/OR/XOR"

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

input x

Disconnected

Normal

## Inverted

Disconnected

Normal

Inverted

"Default value"

input x

0

1

"Result is inverted"

No

Yes

No

Yes

"Read input object value after voltage recovery"

No

Yes

"Output send when"

Receiving a new telegram

Every change of output object

Receiving a new telegram

Every change of output object

"Send delay time"

Base: None

0.1s

1s

...

10s

25s

Factor: 1..255

Base x Factor

Base

"None"

### 5.8.2. "Gate forwarding"

KNX Smart Touch with push button, 3-gang > Logic function > 1st Logic function

| General                                            | Description for logic function                               | Value           | Unit |
|----------------------------------------------------|--------------------------------------------------------------|-----------------|------|
| Home page                                          | Function of channel                                          | Gate forwarding |      |
| Function page setting                              | Object type of Input/Output                                  | 1st             |      |
| Internal temperature meas.                         | Default scene NO. of Gate after startup<br>[1~64.0=inactive] | 0               |      |
| Input                                              | 1-> Gate trigger scene NO. is<br>[1~64.0=inactive]           | 0               |      |
| Input A send on                                    | Input A send on                                              | Output A        |      |
| Input B send on                                    | Input B send on                                              | Output B        |      |
| Input C send on                                    | Input C send on                                              | Output C        |      |
| Input D send on                                    | Input D send on                                              | Output D        |      |
| 2-> Gate trigger scene NO. is<br>[1~64.0=inactive] |                                                              | 0               | 1s   |
| 2nd Logic function                                 | Input A send on                                              | Output A        |      |
| 3rd Logic function                                 | Input B send on                                              | Output B        |      |
| 4th Logic function                                 | Input C send on                                              | Output C        |      |
| 5th Logic function                                 | Input D send on                                              | Output D        |      |

### 5.8.2 "Gate forwarding"

"Object type of Input/Output"

/

**1bit**

**4bit**

**1byte**

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

**0..64 0=**

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

**8**

**0..64 0=**

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

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

**Disable**

**Output A**

**Output B**

**...**

**Output B,C,D**

### 5.8.3. "Threshold comparator"

--- KNX Smart Touch with push button,3-gang > Logic function > 1st Logic function

|                              |                                  |                                 |
|------------------------------|----------------------------------|---------------------------------|
| +  General                   | Description for logic function   |                                 |
| +  Home page                 | Function of channel              | Threshold comparator            |
| +  Function page setting     | Threshold value data type        | 1byte unsigned value (DPT5.010) |
| Internal temperature meas... | Threshold value                  | 0                               |
| +  Input                     | If Object value<Threshold value  | Do not send telegram            |
| +  HVAC controller           | If Object value=Threshold value  | Do not send telegram            |
|                              | If Object value!=Threshold value | Do not send telegram            |
|                              | If Object value>Threshold value  |                                 |

5.8.3 "Threshold comparator"

#### "Threshold value data type"

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

#### "Threshold value"

4bit value (DPT3.007) 0..15 / 1byte unsigned value (DPT5.010) 0..255 /

2byte unsigned value (DPT7.001) 0..65535 / 2byte signed value (DPT8.x) -32768..32767 /

2byte float value (DPT9.x) -670760...670760 / 4byte unsigned value[0..4294967295]  
0..4294967295 /

Ext. temperature value (DPT 9.001) -20..95 / Ext. humidity value (DPT 9.007) 0..100% /

Illuminance value (DPT 9.004) 0..65535lux

"Hysteresis threshold value"

"2byte float value (DPT9.x)" "Illuminance value (DPT 9.004)"

0..500

"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"

"2byte float value (DPT9.x)" "Illuminance value (DPT 9.004)"

Do not send telegram

Send value "0"

Send value "1"

Do not send telegram

Send value "0"/"1"

0 1

|                                 |              |           |
|---------------------------------|--------------|-----------|
| If Object value=Threshold value | Send value 0 | If Object |
| value<=Threshold value          | Send value 1 | 1         |

**"Output send when"**

- Receiving a new telegram**
- Every change of output object**

Receiving a new telegram

Every change of output object

**"Send delay time"**

- Base:**
- None**
  - 0.1s**
  - 1s**
  - ...**
  - 10s**
  - 25s**
- Factor:**
- 1..255**

Base x Factor      Base      "None"

#### 5.8.4. "Format convert"

--- KNX Smart Touch with push button,3-gang > Logic function > 1st Logic function

|                              |                                |                                                                                                                  |
|------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------|
| +  General                   | Description for logic function | <input type="text"/>                                                                                             |
| +  Home page                 | Function of channel            | Format convert ▼                                                                                                 |
| +  Function page setting     | Function                       | 2x1Bit-->1x2Bit ▼                                                                                                |
| Internal temperature meas... | Output send when               | <input checked="" type="radio"/> Receiving a new telegram<br><input type="radio"/> Every change of output object |

5.8.4 "Format convert"

#### "Function"

**2x1bit-->1x2bit**

**8x1bit-->1x1byte**

**1x1byte-->1x2byte**

**2x1byte-->1x2byte**

**2x2byte-->1x4byte**

**1x1byte-->8x1bit**

**1x2byte-->2x1byte**

**1x4byte-->2x2byte**

**1x3byte-->3x1byte**

**3x1byte-->1x3byte**

#### "Output send when"

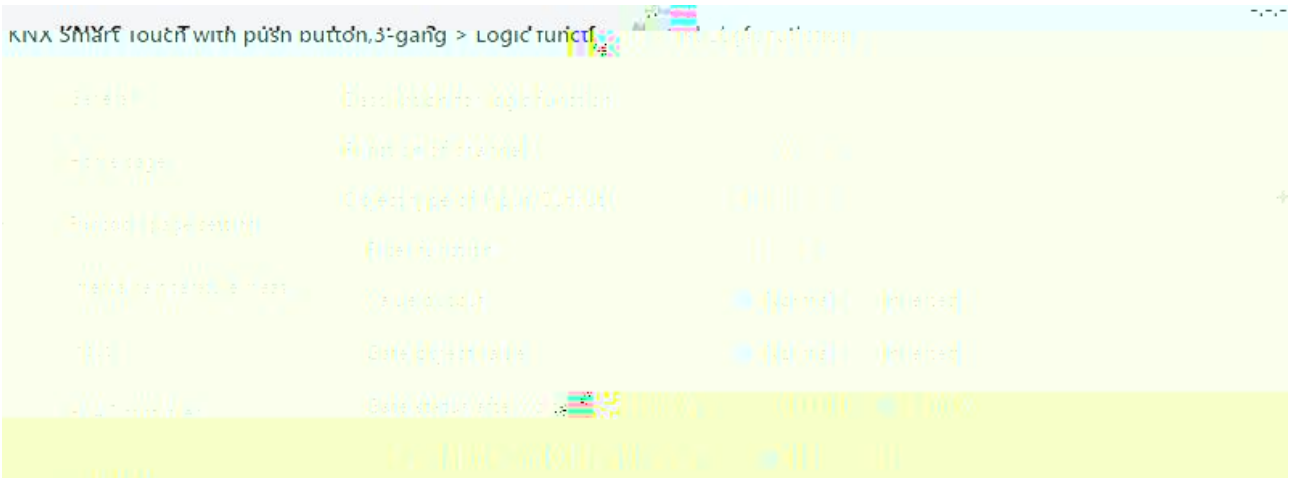
**Receiving a new telegram**

**Every change of output object**

Receiving a new telegram

Every change of output object

5.8.5. "Gate function"



5.8.5 "Gate function"

"Object type of Input/Output"

/

1bit[On/Off]

1byte[0..100%]

1byte[0..255]

2byte[Float]

2byte[0..65535]

"Filter function"

"1bit[On/Off]"

On Off

Deactivate

On filter out

Off filter out

|                |     |     |
|----------------|-----|-----|
| Deactivate     | On  | Off |
| On filter out  | Off | On  |
| Off filter out | On  | Off |

"Value output"

"1bit[On/Off]"

**Normal**

**Inverted**

"Gate object value"

**Normal**

**Inverted**

"Gate status after power on"

**Disable**

**Enable**

"Save input signal when gate close"

**No**

**Yes**

No

Yes

5.8.6. "Delay function"

--- KNX Smart Touch with push button,3-gang > Logic function > 1st Logic function

|                          |                                |                           |
|--------------------------|--------------------------------|---------------------------|
| +  General               | Description for logic function | <input type="text"/>      |
| +  Home page             | Function of channel            | Delay function ▼          |
| +  Function page setting | Object type of Input/Output    | 1bit[On/Off] ▼            |
|                          | Delay time [0..6500]           | 10 <input type="text"/> s |

5.8.6 "Delay function"

"Object type of Input/Output"

/

1bit[On/Off]

1byte[0..100%]

1byte[0..255]

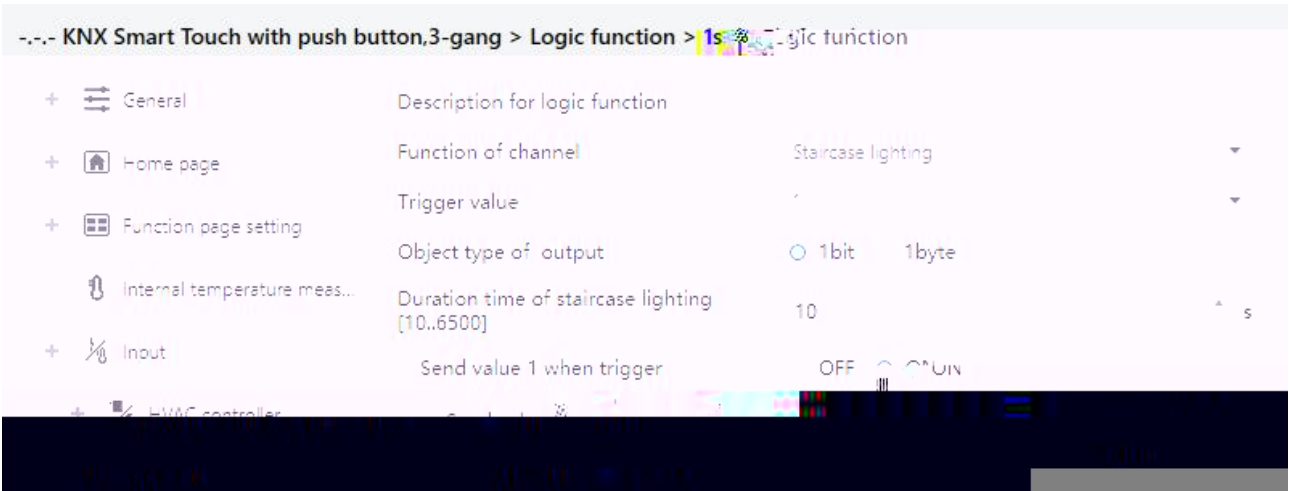
2byte[Float]

2byte[0..65535]

"Delay time [0..6500]s"

0..6500

5.8.7. “Staircase lighting”



5.8.7 “Staircase lighting”

“Trigger value”

“Trigger value”

0

1

0 or 1

“Object type of output”

1bit

1byte

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

10..6500

“Send value 1 when trigger”

“Send value 2 after duration time”

1bit

OFF

ON

1byte

0..255

"Retriggering"

Disable

Enable

## 5.9. "Scene Group"

--- KNX Smart Touch with push button,3-gang > Scene group function > Function setting

|                                                                                                 |                        |                                     |
|-------------------------------------------------------------------------------------------------|------------------------|-------------------------------------|
| +  General   | Scene Group 1 Function | <input checked="" type="checkbox"/> |
| +  Home page | Scene Group 2 Function | <input checked="" type="checkbox"/> |
|                                                                                                 | Scene Group 3 Function | <input checked="" type="checkbox"/> |

--- KNX Smart Touch with push button,3-gang > Scene group function > Group 1

|                                                                                                 |                   |                                     |
|-------------------------------------------------------------------------------------------------|-------------------|-------------------------------------|
| +  General   | Output 1 Function | <input checked="" type="checkbox"/> |
| +  Home page | Output 2 Function | <input checked="" type="checkbox"/> |
|                                                                                                 | Output 3 Function | <input type="checkbox"/>            |

--- KNX Smart Touch with push button,3-gang > Scene group function > Group 1 > Output 1 Function

|                                                                                                                   |                                                    |  |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--|
| +  General                     | Description for Output 1 function                  |  |
| +  Home page                   | Object type of Output 1                            |  |
| +  Function page setting       | 1->Output 1 trigger scene NO. is [1-64,0=inactive] |  |
| +  Internal temperature sensor | Object value of Output 1                           |  |
| +  1bit                        | Delay time for sending [0..255]                    |  |
| +  HVAC controller             | 2->Output 1 trigger scene NO. is [1-64,0=inactive] |  |
|                                                                                                                   | Object value of Output 1                           |  |

5.9 "Scene Group"

"Scene Group x Function" (x=1~8)

x 8

"Output y Function" (y=1~8)

8 x y 8

"Description for Output y function" (y=1~8)

x y 30

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

x y

**1bit**

**1byte**

**2byte**

"Object datatype"

1byte 2byte

1byte

**1byte unsigned value**

**HVAC mode**

2byte

**2byte unsigned value**

**Temperature value**

KNX/E

“C”

“W”

“R”

“T”

“U”

## 6.1. “General”

| Nun  | Name               | Object Function    | Description | Group Address | Length  | C | R | W | T | U | Data Type            | Priority |
|------|--------------------|--------------------|-------------|---------------|---------|---|---|---|---|---|----------------------|----------|
| 1    | General            | In operation       |             |               | 1 bit   | C | R | - | T | - | switch               | Low      |
| 2    | General            | Date               |             |               | 3 bytes | C | - | W | - | - | date                 | Low      |
| 3    | General            | Time               |             |               | 3 bytes | C | - | W | - | - | time of day          | Low      |
| 4    | General            | Screen brightness  |             |               | 1 byte  | C | - | W | - | - | percentage (0..100%) | Low      |
| 1006 | Extension function | Screen locking     |             |               | 1 bit   | C | - | W | - | - | enable               | Low      |
| 1007 | Extension function | Screen on/off      |             |               | 1 bit   | C | - | W | - | - | switch               | Low      |
| 1008 | Extension function | Security 1 trigger | 1bit value  |               | 1 bit   | C | - | - | T | - | switch               | Low      |
| 1009 | Extension function | Security 2 trigger | 1bit value  |               | 1 bit   | C | - | - | T | - | switch               | Low      |

6.1 “General”

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

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



1020 CO2 value

Screensaver-Items 1

2byte

C,W,T,U

7.001 pulse

9.008 parts/million(ppm)

CO2

ppm

0~4000ppm

1020 Brightness value

Screensaver-Items 1

2byte

C,W,T,U

7.013 brightness(lux)

9.004 lux

lux

0~65535

1020 Wind speed

Screensaver-Items 1

C,W,T,U

9.005 speed

9.028 wind speed

brightness

m/s

km/h

1020 AQI value

gete8

6.2. "Voice function"

| Num. | Name                           | Object               | Description | Group Address | Length                  | C | R | W | T | U | Data Type | Priority |
|------|--------------------------------|----------------------|-------------|---------------|-------------------------|---|---|---|---|---|-----------|----------|
| 1024 | Voice function                 | Dis/En Voice control | 1 bit       | C - W - -     | enable                  |   |   |   |   |   | Low       |          |
| 1025 | Voice function                 | Dis/En Mute          | 1 bit       | C - W - -     | enable                  |   |   |   |   |   | Low       |          |
|      | Wake up voice decibel strength |                      | 1 byte      | C - W T -     | counter pulses (0..255) |   |   |   |   |   | Low       |          |

6.2 " | P

### 6.3. "Internal sensor"

| Numbe | Name                   | Obiect          |
|-------|------------------------|-----------------|
| 1.001 | Temperature value      | Internal sensor |
| 1.002 | Low temperature alarm  | Internal sensor |
| 1.003 | High temperature alarm | Internal sensor |
| 1.004 | Humidity value         | Internal sensor |
| 1.005 | Low humidity alarm     | Internal sensor |
| 1.006 | High humidity alarm    | Internal sensor |

#### 6.2 "Internal sensor"

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

#### 6.2 "Internal sensor"

6.4. "Input"

| Numbe | Name                    | Obiect Function | Descri                     |
|-------|-------------------------|-----------------|----------------------------|
| 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 |
| 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 |

| Numbe | Name                    | Obiect 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      |
| 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      |
| 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      |

| Numbe | Name                  | Obiect Function | Description                                          |
|-------|-----------------------|-----------------|------------------------------------------------------|
| 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}} | 2byt<br>e | C,R,T | 9.001 temperature |
|------|----------------------------|---------------------------------|-----------|-------|-------------------|

P C

|                                                                                                                                                                                                            |                    |                             |       |         |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|-------|---------|----------------------|
| 1001                                                                                                                                                                                                       | Open/Long, Switch  | Input 1 - {{Switch sensor}} | 1bit  | C,W,T,U | 1.001 switch         |
| <div> <div>1</div> <div>“Switch”</div> <div>2</div> <div>“Close/Open”</div> </div> <div> <div>“Short/Long”</div> <div>0</div> <div>1</div> </div>                                                          |                    |                             |       |         |                      |
| 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 |
| <div> <div>8bit</div> <div>/</div> <div>1</div> </div> <div> <div>2</div> <div>1</div> <div>“Scene”</div> <div>2</div> <div>“Close/Open”</div> </div> <div> <div>“Short/Long”</div> <div>8bit</div> </div> |                    |                             |       |         |                      |

|                                                                                                                                                                                                                                                                                                                                                                 |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------|--------|-----|--------------------------------------|--|--|---|---|---|---|---|---|-----|-----|----|----|-----|---|-----|---|-----|---|-----|-----|-----|----|
| 8bit ( ) FXNNNNNN                                                                                                                                                                                                                                                                                                                                               |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| F '0' '1'                                                                                                                                                                                                                                                                                                                                                       |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| X 0                                                                                                                                                                                                                                                                                                                                                             |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| NNNNNN 0...63                                                                                                                                                                                                                                                                                                                                                   |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| <table><tr><td></td><td></td></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>2</td></tr><tr><td>2</td><td>3</td></tr><tr><td>...</td><td>...</td></tr><tr><td>63</td><td>64</td></tr><tr><td>128</td><td>1</td></tr><tr><td>129</td><td>2</td></tr><tr><td>130</td><td>3</td></tr><tr><td>...</td><td>...</td></tr><tr><td>191</td><td>64</td></tr></table> |                     |                           |        |     |                                      |  |  | 0 | 1 | 1 | 2 | 2 | 3 | ... | ... | 63 | 64 | 128 | 1 | 129 | 2 | 130 | 3 | ... | ... | 191 | 64 |
|                                                                                                                                                                                                                                                                                                                                                                 |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 0                                                                                                                                                                                                                                                                                                                                                               | 1                   |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 1                                                                                                                                                                                                                                                                                                                                                               | 2                   |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 2                                                                                                                                                                                                                                                                                                                                                               | 3                   |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| ...                                                                                                                                                                                                                                                                                                                                                             | ...                 |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 63                                                                                                                                                                                                                                                                                                                                                              | 64                  |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 128                                                                                                                                                                                                                                                                                                                                                             | 1                   |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 129                                                                                                                                                                                                                                                                                                                                                             | 2                   |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 130                                                                                                                                                                                                                                                                                                                                                             | 3                   |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| ...                                                                                                                                                                                                                                                                                                                                                             | ...                 |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 191                                                                                                                                                                                                                                                                                                                                                             | 64                  |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 1~64 0~63 1                                                                                                                                                                                                                                                                                                                                                     |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 0                                                                                                                                                                                                                                                                                                                                                               |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 1000                                                                                                                                                                                                                                                                                                                                                            | String              | Input 1 - {{Send String}} | 14byte | C,T | 16.001 character string (ISO 8859-1) |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 1000                                                                                                                                                                                                                                                                                                                                                            | Close/Short, String | Input 1 - {{Send String}} | 14byte | C,T | 16.001 character string (ISO 8859-1) |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 1001                                                                                                                                                                                                                                                                                                                                                            | Open/Long, String   | Input 1 - {{Send String}} | 14byte | C,T | 16.001 character string (ISO 8859-1) |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| / 1 2                                                                                                                                                                                                                                                                                                                                                           |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 1 "String" 2 "Close/Open"                                                                                                                                                                                                                                                                                                                                       |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| "Short/Long"                                                                                                                                                                                                                                                                                                                                                    |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| 1002                                                                                                                                                                                                                                                                                                                                                            | Disable             | Input 1 - {...}           | 1bit   | C,W | 1.003 enable                         |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |
| /                                                                                                                                                                                                                                                                                                                                                               |                     |                           |        |     |                                      |  |  |   |   |   |   |   |   |     |     |    |    |     |   |     |   |     |   |     |     |     |    |

## 6.5. "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      |
| 156    | Controller 1 - RTC | Comfort mode                |             |               | 1 bit   | C | - | W | - | - | enable                     | Low      |
| 157    | Controller 1 - RTC | Economy mode                |             |               | 1 bit   | C | - | W | - | - | enable                     | Low      |
| 158    | Controller 1 - RTC | Frost/Heat protection mode  |             |               | 1 bit   | C | - | W | - | - | enable                     | Low      |
| 159    | Controller 1 - RTC |                             |             |               |         |   |   |   |   |   |                            |          |



6.4.1 "Room temperature controller"

|                                                                                                                                            |                                                         |                        |       |         |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|-------|---------|-------------------|
|                                                                                                                                            |                                                         |                        |       |         | DPT               |
| 148                                                                                                                                        | Power on/off                                            | Controller 1 - {{RTC}} | 1bit  | C,W,R   | 1.001 switch      |
| <div> <div>1--</div> <div>0--</div> <div>                     "Description (max 30char.)"                     "Controller 1" </div> </div> |                                                         |                        |       |         |                   |
| 149                                                                                                                                        | External temperature sensor                             | Controller 1 - {{RTC}} | 2byte | C,W,T,U | 9.001 temperature |
| -50~99.8°C                                                                                                                                 |                                                         |                        |       |         |                   |
| 150                                                                                                                                        | Current setpoint adjustment<br>Base setpoint adjustment | Controller 1 - {{RTC}} | 2byte | C,W     | 9.001 temperature |
| <div>                     "Current setpoint adjustment"                     "Base setpoint adjustment" </div>                              |                                                         |                        |       |         |                   |
| 151                                                                                                                                        | Setpoint offset                                         | Controller 1 - {{RTC}} | 1bit  | C,W     | 1.007 step        |
| <div> <div>1</div> <div>0</div> </div>                                                                                                     |                                                         |                        |       |         |                   |

|                                                                                                                                                                                                                                                                  |                            |                        |       |     |                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------|-------|-----|------------------------------|
| 152                                                                                                                                                                                                                                                              | Float offset value         | Controller 1 - {{RTC}} | 2byte | C,W | 9.002 temperature difference |
| 2byte                                                                                                                                                                                                                                                            |                            |                        |       |     |                              |
| 153                                                                                                                                                                                                                                                              | Setpoint offset reset      | Controller 1 - {{RTC}} | 1bit  | C,W | 1.015 reset                  |
| 1                                                                                                                                                                                                                                                                |                            |                        |       |     |                              |
| 154                                                                                                                                                                                                                                                              | Heating/Cooling mode       | Controller 1 - {{RTC}} | 1bit  | C,W | 1.100 cooling/heating        |
| 1<br>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                 |
| 1byte            155            1-            2-            3-            4-<br>1bit<br>156<br>157<br><br>158<br>159<br>"1"                            1bit                            0<br><br>1bit                            "1"                            0 |                            |                        |       |     |                              |

|                                                                               |                                   |                        |       |       |                   |
|-------------------------------------------------------------------------------|-----------------------------------|------------------------|-------|-------|-------------------|
| 160                                                                           | Extended comfort mode             | Controller 1 - {{RTC}} | 1bit  | C,W   | 1.016 acknowledge |
| <div> <div>1</div> <div>0</div> <div>1</div> <div>1</div> <div>/</div> </div> |                                   |                        |       |       |                   |
| 161                                                                           | Fan automatic operation           | Controller 1 - {{RTC}} | 1bit  | C,W   | 1.003 enable      |
| <div> <div>1</div> <div>0</div> </div>                                        |                                   |                        |       |       |                   |
| 162                                                                           | Window contact                    | Controller 1 - {{RTC}} | 1bit  | C,W,U | 1.019 Window/door |
| <div> <div>1</div> <div>0</div> </div>                                        |                                   |                        |       |       |                   |
| 163                                                                           | Presence detector                 | Controller 1 - {{RTC}} | 1bit  | C,W,U | 1.018 occupancy   |
| <div> <div>1</div> <div>0</div> </div>                                        |                                   |                        |       |       |                   |
| 164                                                                           | Actual temperature, status        | Controller 1 - {{RTC}} | 2byte | C,R,T | 9.001 temperature |
|                                                                               |                                   |                        |       |       |                   |
| 165                                                                           | Base temperature setpoint, status | Controller 1 - {{RTC}} | 2byte | C,R,T | 9.001 temperature |
| <div> <div>=</div> <div>150</div> <div>+</div> </div>                         |                                   |                        |       |       |                   |

|                                                                                                                                                                                                                                                               |                                      |                        |       |       |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------|-------|-------|------------------------------|
| 166                                                                                                                                                                                                                                                           | Setpoint offset, status              | Controller 1 - {{RTC}} | 2byte | C,R,T | 9.002 temperature difference |
| 167                                                                                                                                                                                                                                                           | Current temperature setpoint, status | Controller 1 - {{RTC}} | 2byte | C,R,T | 9.001 temperature            |
| 168                                                                                                                                                                                                                                                           | Heating/Cooling mode, status         | Controller 1 - {{RTC}} | 1bit  | C,R,T | 1.100 cooling/heating        |
| 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                 |
| <div> <div>1byte</div> <div>169</div> <div>1-</div> <div>2-</div> <div>3-</div> <div>4-</div> </div> <div> <div>1bit</div> <div>170</div> <div>171</div> <div>172</div> <div>173</div> </div> <div> <div>"1" 1bit</div> <div>0 1bit</div> <div>1</div> </div> |                                      |                        |       |       |                              |

|                                                                                                                                                                                                                                                                                                                                               |                               |                        |               |       |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------|---------------|-------|-------------------------------------|
| 174                                                                                                                                                                                                                                                                                                                                           | Heating control value, status | Controller 1 - {{RTC}} | 1bit<br>1byte | C,R,T | 1.001 Switch<br>5.001 percentage    |
| 175                                                                                                                                                                                                                                                                                                                                           | Cooling control value, status | Controller 1 - {{RTC}} | 1bit<br>1byte | C,R,T | 1.001 Switch<br>5.001 percentage    |
|                                                                                                                                                                                                                                                                                                                                               |                               |                        |               |       |                                     |
| 176                                                                                                                                                                                                                                                                                                                                           | Fan speed, status             | Controller 1 - {{RTC}} | 1byte         | C,T   | 5.001 percentage<br>5.100 fan stage |
| 177                                                                                                                                                                                                                                                                                                                                           | Fan speed low, status         | Controller 1 - {{RTC}} | 1bit          | C,T   | 1.001 switch                        |
| 178                                                                                                                                                                                                                                                                                                                                           | Fan speed medium, status      | Controller 1 - {{RTC}} | 1bit          | C,T   | 1.001 switch                        |
| 179                                                                                                                                                                                                                                                                                                                                           | Fan speed high, status        | Controller 1 - {{RTC}} | 1bit          | C,T   | 1.001 switch                        |
| 180                                                                                                                                                                                                                                                                                                                                           | Fan speed off, status         | Controller 1 - {{RTC}} | 1bit          | C,T   | 1.001 switch                        |
| <div> <div>1bit</div> <div> <div>177</div> <div>178</div> <div>179</div> <div>180</div> </div> <div> <div>"1"</div> <div>"0"</div> <div>1bit-off</div> </div> <div> <div>1byte</div> <div>176</div> </div> <div> <div>1bit-off</div> <div>"1"</div> </div> <div> <div>GVS</div> </div> <div> <div>"1"</div> <div>1bit-off</div> </div> </div> |                               |                        |               |       |                                     |

### 6.4.2. "Ventilation controller"

| Object Number | Object Name                | Object Function         | Description | Group Address | Length  | C | R | W | T | U | Data Type            | Priority |
|---------------|----------------------------|-------------------------|-------------|---------------|---------|---|---|---|---|---|----------------------|----------|
| 148           | Controller 1 - Ventilation | Fan automatic operation |             |               | 1 bit   | C | - | W | - | - | enable               | Low      |
| 149           | Controller 1 - Ventilation | PM 2.5 value            |             |               | 2 bytes | C | - | W | T | U | pulses               | Low      |
| 176           | Controller 1 - Ventilation | Fan speed, status       |             |               | 1 byte  | C | - | - | T | - | percentage (0..100%) | Low      |

### 6.4.2 "Ventilation controller"

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

### 6.4.2 "Ventilation controller"

### 6.6. "Home page"

| Numbe | Name          | Object Function    | Descript | Group Ad | Length  | C | R | W | T | U | Data Type     |     |
|-------|---------------|--------------------|----------|----------|---------|---|---|---|---|---|---------------|-----|
| 348   | Home - Icon 3 | Ext.humidity value |          |          | 2 bytes | C | - | W | T | U | humidity (%)  | Low |
| 348   | Home - Icon 3 | PM2.5 value        |          |          | 2 bytes | C | - | W | T | U | pulses        | Low |
| 348   | Home - Icon 3 | PM10 value         |          |          | 2 bytes | C | - | W | T | U | pulses        | Low |
| 348   | Home - Icon 3 | VOC value          |          |          | 2 bytes | C | - | W | T | U | pulses        | Low |
| 348   | Home - Icon 3 | CO2 value          |          |          | 2 bytes | C | - | W | T | U | pulses        | Low |
| 348   | Home - Icon 3 | AQI value          |          |          | 2 bytes | C | - | W | T | U | pulses        | Low |
| 348   | Home - Icon 3 | Brightness value   |          |          | 2 bytes | C | - | W | T | U | Lux (Lux)     | Low |
| 348   | Home - Icon 3 | Wind speed         |          |          | 2 bytes | C | - | W | T | U | speed (m/s)   | Low |
| 348   | Home - Icon 3 | Rain state         |          |          | 1 bit   | C | - | W | T | U | switch        | Low |
| 348   | Home - Icon 3 | Scene              |          |          | 1 byte  | C | - | - | T | - | scene control | Low |

### 6.5 "Home page"

|                                                                                      |                                        |                   |       |         |                                           |
|--------------------------------------------------------------------------------------|----------------------------------------|-------------------|-------|---------|-------------------------------------------|
|                                                                                      |                                        |                   |       |         | DPT                                       |
| 348                                                                                  | Ext.temperature value                  | Home - {{Icon 3}} | 2byte | C,W,T,U | 9.001 temperature                         |
| <p>-40...40°C</p> <p>"Function description (max 15char.)"</p> <p>"Home - Icon x"</p> |                                        |                   |       |         |                                           |
| 348                                                                                  | Ext.humidity value                     | Home - {{Icon 3}} | 2byte | C,W,T,U | 9.007 humidity                            |
| <p>0~100%</p>                                                                        |                                        |                   |       |         |                                           |
| 348                                                                                  | PM2.5 value<br>PM10 value<br>VOC value | Home - {{Icon 3}} | 2byte | C,W,T,U | 7.001 pulse<br>9.030 concentration(ug/m3) |
| <p>PM2.5/PM10/VOC</p> <p>ug/m<sup>3</sup>      0~999ug/m<sup>3</sup></p>             |                                        |                   |       |         |                                           |

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

## 6.7. "Function page setting"

### 6.6.1.

| 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      |

#### 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

| 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      |

#### Relative dimming

| 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      |

#### Brightness dimming

| Number | Name            | Object Function          | Description | Group Address | 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 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      |
| 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      |
| 362    | Page 1 - Icon 1 | White brightness, status |             |               | 1 byte  | C | - | W | T | U | 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      |
| 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      |
| 359   | Page 1 - Icon 1 | RGB brightness, status     |          |          | 3 bytes | C | - | W | T | U | RGB value 3x(0..255)            | 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      |

#### 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      |

#### 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               | Description | 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 |             |          |        |   |   |   |   |   |                      |          |

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

| Numbe | Name            | Object Function | Description | 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 | Description | 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          | Description | 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        | Description | 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        | Description | 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/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 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      |

|     |                 |                              |         |           |                    |     |
|-----|-----------------|------------------------------|---------|-----------|--------------------|-----|
| 353 | Page 1 - Icon 1 | Send 4byte float value       | 4 bytes | C - W T - | 4-byte float value | Low |
| 355 | Page 1 - Icon 1 | Send 4byte float value, long | 4 bytes | C - W T - | 4-byte float value | Low |

## Value sender

| Number | Name            | Object Function | Value  | Unit      | Control       | Low |
|--------|-----------------|-----------------|--------|-----------|---------------|-----|
| 353    | Page 1 - Icon 1 | Scene           | 1 byte | C - W T - | scene control | Low |

## Scene

| Number | Name            | Object Function                  | Value   | Unit      | Control                  | Low |
|--------|-----------------|----------------------------------|---------|-----------|--------------------------|-----|
| 353    | Page 1 - Icon 1 | Status display(2byte)            | 2 bytes | C - W T U | 2-byte float value       | Low |
| 353    | Page 1 - Icon 1 | Status display(1bit)             | 1 bit   | C - W T U | switch                   | Low |
| 353    | Page 1 - Icon 1 | Status display(1byte percentage) | 1 byte  | C - W T U | percentage (0..100%)     | Low |
| 353    | Page 1 - Icon 1 | Status display(1byte unsigned)   | 1 byte  | C - W T U | counter, pulses (0..255) | Low |
| 353    | Page 1 - Icon 1 | Status display(2byte unsigned)   | 2 bytes | C - W T U | pulses                   | Low |
| 353    | Page 1 - Icon 1 | Status display(2byte lux)        | 2 bytes | C - W T U | 2-byte float value       | Low |
| 353    | Page 1 - Icon 1 | Status display(2byte float)      | 2 bytes | C - W T U | 2-byte float value       | Low |

## Status display

## 6.6.1

|                                                                                                                                  |                |                     |      |     | DPT          |
|----------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|------|-----|--------------|
| 352                                                                                                                              | Locking object | Page 1 - {{Icon 1}} | 1bit | C,W | 1.003 enable |
| <div> <div>/</div> <div>0</div> <div>1</div> <div>"Function description (max 10char.)"</div> <div>"Page x - Icon y"</div> </div> |                |                     |      |     |              |
| 353                                                                                                                              | Switch         | Page 1 - {{Icon 1}} | 1bit | C,T | 1.001 switch |
| <div> <div>/</div> <div>/</div> <div>1</div> <div>/</div> <div>/</div> <div>0</div> <div>1</div> </div>                          |                |                     |      |     |              |

|                                                                                            |                        |                     |       |         |                              |
|--------------------------------------------------------------------------------------------|------------------------|---------------------|-------|---------|------------------------------|
| 358                                                                                        | Switch, status         | Page 1 - {{Icon 1}} | 1bit  | C,W,T,U | 1.001 switch                 |
| <div> <div>/</div> <div>0</div> <div>1</div> </div>                                        |                        |                     |       |         |                              |
| 354                                                                                        | Relative dimming       | Page 1 - {{Icon 1}} | 4bit  | C,T     | 3.007 dimming                |
| <div>0~100%</div> <div>/</div>                                                             |                        |                     |       |         |                              |
| 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%)    |
| <div>0~100%</div> <div>Obj.355</div> <div>Obj.360</div> <div>4bit "Relative dimming"</div> |                        |                     |       |         |                              |
| 354                                                                                        | RGB dimming value      | Page 1 - {{Icon 1}} | 3byte | C,T     | 232.600 RGB value 3x(0..255) |
| 359                                                                                        | RGB brightness, status | Page 1 - {{Icon 1}} | 3byte | C,W,T,U | 232.600 RGB value 3x(0..255) |

RGB

1x3byte

Obj.354

RGB

Obj.359

RGB

3

RGB

U8 U8 U8

|                  |          |                  |
|------------------|----------|------------------|
| 3 <sub>MSB</sub> | 2        | 1 <sub>LSB</sub> |
| R                | G        | B                |
| UUUUUUUU         | UUUUUUUU | UUUUUUUU         |

R:

G:

B:

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

RGBW

1x6byte

Obj.354

RGBW

Obj.359

RGBW

6

RGBW

U8 U8 U8 U8 R8 R4 B4

|                  |          |          |          |              |                     |
|------------------|----------|----------|----------|--------------|---------------------|
| 6 <sub>MSB</sub> | 5        | 4        | 3        | 2            | 1 <sub>LSB</sub>    |
| R                | G        | B        | W        |              | r r r r mR mG mB mW |
| UUUUUUUU         | UUUUUUUU | UUUUUUUU | UUUUUUUU | 0000000<br>0 | 0000BBBB            |

R:

G:

B:

W:

mR:

, 0=

, 1=

|                                                                                                                             |                          |                     |       |         |                           |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|-------|---------|---------------------------|
| mG: , 0= , 1=<br>mB: , 0= , 1=<br>mW: , 0= , 1=                                                                             |                          |                     |       |         |                           |
| 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%) |
| <div> <div>RGB3x1byte</div> <div>RGBW4x1byte</div> <div>0...100%</div> <div>Obj.354R( )</div> <div>Obj.359R( )</div> </div> |                          |                     |       |         |                           |
| 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%) |
| <div> <div>RGB3x1byte</div> <div>RGBW4x1byte</div> <div>0...100%</div> <div>Obj.355G( )</div> <div>Obj.360G( )</div> </div> |                          |                     |       |         |                           |
| 356                                                                                                                         | Blue dimming value       | Page 1 - {{Icon 1}} | 1byte | C,T     | 5.001 percentage(0..100%) |
| 361                                                                                                                         | Blue brightness, status  | Page 1 - {{Icon 1}} | 1byte | C,W,T,U | 5.001 percentage(0..100%) |
| <div> <div>RGB3x1byte</div> <div>RGBW4x1byte</div> <div>0...100%</div> <div>Obj.356B( )</div> <div>Obj.361B( )</div> </div> |                          |                     |       |         |                           |

|                                                                      |                               |                     |       |         |                                   |
|----------------------------------------------------------------------|-------------------------------|---------------------|-------|---------|-----------------------------------|
| 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<br><br>0...100%<br><br>Obj.357 W( )<br><br>Obj.362 W( ) |                               |                     |       |         |                                   |
| 357                                                                  | Colour temperature value      | Page 1 - {{Icon 1}} | 2byte | C,T     | 7.600 absolute colour temperature |
| 362                                                                  | Colour temperature, status    | Page 1 - {{Icon 1}} | 2byte | C,W,T,U | 7.600 absolute colour temperature |
| / 2000...7000 K<br><br>Obj.357<br><br>Obj.362 & +                    |                               |                     |       |         |                                   |
| 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%)         |
| / 0...100%<br><br>Obj.363<br><br>Obj.365 & +                         |                               |                     |       |         |                                   |
| 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%)         |
| 0...100%<br><br>Obj.363<br><br>Obj.365 & /                           |                               |                     |       |         |                                   |

|                                                                                                                                  |                               |                     |       |         |                           |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-------|---------|---------------------------|
| 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%) |
| <div>0...100%</div> <div>Obj.364</div> <div>Obj.366      &amp;      /</div>                                                      |                               |                     |       |         |                           |
| 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                |
| <div>Curtain step/move</div> <div>Obj.353                      /</div> <div>1</div> <div>0</div> <div>Obj.354</div> <div>1</div> |                               |                     |       |         |                           |
| 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                |
| <div>Roller blind step/move</div> <div>Obj.353                      /</div> <div>1---</div> <div>0---</div> <div>Obj.354</div>   |                               |                     |       |         |                           |

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|     |                          |                     |       |         |                           |
|-----|--------------------------|---------------------|-------|---------|---------------------------|
| 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 | C,T     | 5.001 percentage(0..100%) |
| 358 | Curtain position, status | Page 1 - {{Icon 1}} | 1byte | C,W,T,U | 5.001 percentage(0..100%) |

Curtain position

Obj.353

|     |                 |                     |       |     |                           |
|-----|-----------------|---------------------|-------|-----|---------------------------|
| 353 | Up/Down         | Page 1 - {{Icon 1}} | 1bit  | C,T | 1.008 up/down             |
| 354 | Stop/Slat adj.  | 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%) |
| 356 | Slat position   | Page 1 - {{Icon 1}} | 1byte | C,T | 5.001 percentage(0..100%) |
| 358 | Blind position, |                     |       |     |                           |

Blind position, 3 20 position, 1 100% 2.001 percentage(0..100%)



|                                              |                                                                                                                                                                                                                                                                 |                     |                        |              |                                                                                                                                                                   |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 353                                          | Scene                                                                                                                                                                                                                                                           | Page 1 - {{Icon 1}} | 1byte                  | C,T<br>C,W,T | 18.001 scene control                                                                                                                                              |
| <div>10</div> <div>C,W,T C,T</div>           |                                                                                                                                                                                                                                                                 |                     |                        |              |                                                                                                                                                                   |
| 353                                          | Status display(1bit)<br>Status display(1byte percentage)<br>Status display(1byte unsigned)<br>Status display(2byte unsigned)<br>Status display(2byte temperature)<br>Status display(2byte humidity)<br>Status display(2byte lux)<br>Status display(2byte float) | Page 1 - {{Icon 1}} | 1bit<br>1byte<br>2byte | C,W,T,U      | 1.001 switch<br>5.001 percentage(0..100%)<br>5.010 counter pulses<br>7.001 pulses<br>9.001 temperature<br>9.007 humidity<br>9.004 lux(lux)<br>9*2byte float value |
| <div>1bit 1byte 1byte 2byte 2byte 1bit</div> |                                                                                                                                                                                                                                                                 |                     |                        |              |                                                                                                                                                                   |

## 6.6.2.

| Number | 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 | 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, setpoint, 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                              |
| /   |                             |                     |                |     |                                           |
| 0   |                             |                     |                |     |                                           |
| 1   |                             |                     |                |     |                                           |
| 353 | Power on/off                | Page 1 - {{Icon 1}} | 1bit           | C,T | 1.001 switch                              |
| KNX |                             |                     |                |     |                                           |
| 354 | Current setpoint adjustment | Page 1 - {{Icon 1}} | 1byte<br>2byte | C,T | 5.010 counter pulses<br>9.001 temperature |
|     |                             |                     |                |     |                                           |
| 356 | Fan speed                   | Page 1 - {{Icon 1}} | 1byte          | C,T | 5.001 percentage<br>5.100 fan stage       |
|     |                             |                     |                |     |                                           |

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

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

## 6.6.2

### 6.6.3.

| Number | Name            | Object Function                      | Description | Group Address | Length  | C | R | W | T | U | Data Type            | Priority |
|--------|-----------------|--------------------------------------|-------------|---------------|---------|---|---|---|---|---|----------------------|----------|
| 354    | Page 1 - Icon 1 | Locking of                           |             |               |         |   |   |   |   |   |                      |          |
| 355    | Page 1 - Icon 1 | Current setpoint adjustment(1bit)    |             |               | 1 bit   | C | - | - | T | - | step                 | Low      |
| 356    | Page 1 - Icon 1 | Fan speed                            |             |               | 1 byte  | C | - | - | T | - | percentage (0..100%) | Low      |
| 357    | Page 1 - Icon 1 | Fan automatic operation              |             |               | 1 bit   | C | - | - | T | - | enable               | Low      |
| 358    | Page 1 - Icon 1 | Heating/Cooling mode                 |             |               | 1 bit   | C | - | - | T | - | cooling/heating      | Low      |
| 359    | Page 1 - Icon 1 | Operation mode                       |             |               | 1 byte  | C | - | - | T | - | HVAC mode            | Low      |
| 360    | Page 1 - Icon 1 | Power on/off status                  |             |               | 1 bit   | C | - | - | T | - | switch               | Low      |
| 361    | Page 1 - Icon 1 | External temperature sensor          |             |               | 2 bytes | C | - | - | T | - | temperature (°C)     | Low      |
| 362    | Page 1 - Icon 1 | Current temperature setpoint, status |             |               | 2 bytes | C | - | - | T | - | temperature (°C)     | Low      |
| 363    | Page 1 - Icon 1 | Fan speed, status                    |             |               | 1 byte  | C | - | - | T | - | percentage (0..100%) | Low      |

## 6.6.3

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

|                                       |                                      |                     |       |         |                       |
|---------------------------------------|--------------------------------------|---------------------|-------|---------|-----------------------|
| 357                                   | Fan automatic operation              | Page 1 - {{Icon 1}} | 1bit  | C,T     | 1.003 enable          |
| <div>1</div> <div>0</div>             |                                      |                     |       |         |                       |
| 358                                   | Heating/Cooling mode                 | Page 1 - {{Icon 1}} | 1bit  | C,T     | 1.100 cooling/heating |
| <div>1—</div> <div>0—</div>           |                                      |                     |       |         |                       |
| 359                                   | Operation mode                       | Page 1 - {{Icon 1}} | 1byte | C,T     | 20.102 HVAC mode      |
| <div>1-      2-      3-      4-</div> |                                      |                     |       |         |                       |
| 360                                   | Power on/off, status                 | Page 1 - {{Icon 1}} | 1bit  | C,W     | 1.001 switch          |
| <div>1—</div> <div>0—</div>           |                                      |                     |       |         |                       |
| 361                                   | External temperature sensor          | Page 1 - {{Icon 1}} | 2byte | C,W,T,U | 9.001 temperature     |
|                                       |                                      |                     |       |         |                       |
| 362                                   | Current temperature setpoint, status | Page 1 - {{Icon 1}} | 2byte | C,W,T,U | 9.001 temperature     |
|                                       |                                      |                     |       |         |                       |

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

#### 6.6.4.

| 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 | Power on/off                    |          |          | 1 bit   | C | - | - | T | - | switch               | Low      |
| 354   | Page 1 - Icon 1 | Filter timer counter            |          |          | 2 bytes | C | - | - | T | - | time (h)             | Low      |
| 355   | Page 1 - Icon 1 | Filter alarm                    |          |          | 1 bit   | C | - | - | T | - | alarm                | Low      |
| 356   | Page 1 - Icon 1 | Fan speed                       |          |          | 1 byte  | C | - | - | T | - | percentage (0..100%) | Low      |
| 357   | Page 1 - Icon 1 | Fan automatic operation         |          |          | 1 bit   | C | - | - | T | - | enable               | Low      |
| 358   | Page 1 - Icon 1 | Heat recovery                   |          |          | 1 bit   | C | - | - | T | - | enable               | Low      |
| 360   | Page 1 - Icon 1 | Power on/off, status            |          |          | 1 bit   | C | - | W | - | - | switch               | Low      |
| 361   | Page 1 - Icon 1 | Filter timer counter change     |          |          | 2 bytes | C | - | W | - | - | time (h)             | Low      |
| 363   | Page 1 - Icon 1 | Fan speed, status               |          |          | 1 byte  | C | - | W | - | - | percentage (0..100%) | Low      |
| 364   | Page 1 - Icon 1 | Fan automatic operation, status |          |          | 1 bit   | C | - | W | - | - | enable               | Low      |
| 365   | Page 1 - Icon 1 | Heat recovery, status           |          |          | 1 bit   | C | - | W | - | - | enable               | Low      |
| 367   | Page 1 - Icon 1 | Filter timer reset              |          |          | 1 bit   | C | - | W | - | - | reset                | Low      |
| 368   | Page 1 - Icon 1 | Scene                           |          |          | 1 byte  | C | - | W | - | - | scene control        | Low      |

#### 6.6.4

|     |                      |                     |       |     | DPT                                 |
|-----|----------------------|---------------------|-------|-----|-------------------------------------|
| 352 | Locking object       | Page 1 - {{Icon 1}} | 1bit  | C,W | 1.003 enable                        |
| /   |                      |                     |       |     |                                     |
| 0   |                      |                     |       |     |                                     |
| 1   |                      |                     |       |     |                                     |
| 353 | Power on/off         | Page 1 - {{Icon 1}} | 1bit  | C,T | 1.001 switch                        |
| KNX |                      |                     |       |     |                                     |
| 354 | Filter timer counter | Page 1 - {{Icon 1}} | 2byte | C,T | 7.007 time(h)                       |
|     |                      |                     |       |     |                                     |
| 355 | Filter alarm         | Page 1 - {{Icon 1}} | 1bit  | C,T | 1.005 alarm                         |
| 1   |                      |                     |       |     |                                     |
| 356 | Fan speed            | Page 1 - {{Icon 1}} | 1byte | C,T | 5.001 percentage<br>5.100 fan stage |
|     |                      |                     |       |     |                                     |

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

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

#### 6.6.4

#### 6.6.5.

| Number | Name            | Object Function   | Description | Unit     | Control   | Value                         | Low |
|--------|-----------------|-------------------|-------------|----------|-----------|-------------------------------|-----|
| 364    | Page 1 - Icon 1 | Mute, status      |             | 1 bit    | C - W T U | enable                        | Low |
| 365    | Page 1 - Icon 1 | Play mode, status |             | 1 byte   | C - W T U | counter pulses (0..255)       | Low |
| 366    | Page 1 - Icon 1 | Track name        |             | 14 bytes | C - W T U | Character String (ISO 8859-1) | Low |
| 367    | Page 1 - Icon 1 | Album name        |             | 14 bytes | C - W T U | Character String (ISO 8859-1) | Low |
| 368    | Page 1 - Icon 1 | Artist name       |             | 14 bytes | C - W T U | Character String (ISO 8859-1) | Low |
| 354    | Page 1 - Icon 1 | Play              |             | 1 bit    | C - - T - | enable                        | Low |
| 358    | Page 1 - Icon 1 | Pause             |             | 1 bit    | C - - T - | enable                        | Low |
| 361    | Page 1 - Icon 1 | Play, status      |             | 1 bit    | C - W T U | enable                        | Low |
| 362    | Page 1 - Icon 1 | Pause, status     |             | 1 bit    | C - W T U | enable                        | Low |

#### 6.6.5

|                                                                        |                |                     |      |     |                  |
|------------------------------------------------------------------------|----------------|---------------------|------|-----|------------------|
|                                                                        |                |                     |      |     | DPT              |
| 352                                                                    | Locking object | Page 1 - {{Icon 1}} | 1bit | C,W | 1.003 enable     |
| <div> <div>/</div> <div>0</div> <div>1</div> </div>                    |                |                     |      |     |                  |
| 353                                                                    | Power on/off   | Page 1 - {{Icon 1}} | 1bit | C,T | 1.001 switch     |
| <div> <div>1</div> <div>0</div> </div>                                 |                |                     |      |     |                  |
| 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     |
| <div> <div>/</div> <div>1---</div> <div>0---</div> <div>1</div> </div> |                |                     |      |     |                  |

|                                                                                            |                               |                     |       |     |                                      |
|--------------------------------------------------------------------------------------------|-------------------------------|---------------------|-------|-----|--------------------------------------|
| 355                                                                                        | Next track=1/Previous track=0 | Page 1 - {{Icon 1}} | 1bit  | C,T | 1.007 step                           |
| <div> <div>1</div> <div>0</div> </div>                                                     |                               |                     |       |     |                                      |
| 356                                                                                        | Volume+=1/Volume-=0           | Page 1 - {{Icon 1}} | 1bit  | C,T | 1.007 step                           |
| 356                                                                                        | Absolute volume               | Page 1 - {{Icon 1}} | 1byte | C,T | 5.001 percentage<br>5.004 percentage |
| <div> <div>1bit</div> <div>1--</div> <div>0--</div> <div>1byte0..100 / 0..255</div> </div> |                               |                     |       |     |                                      |
| 357                                                                                        | Mute                          | Page 1 - {{Icon 1}} | 1bit  | C,T | 1.003 enable                         |
| <div> <div>1</div> <div>0</div> </div>                                                     |                               |                     |       |     |                                      |
| 359                                                                                        | Play mode                     | Page 1 - {{Icon 1}} | 1byte | C,T | 5.010 counter pulses                 |
|                                                                                            |                               |                     |       |     |                                      |

|                                                                  |                        |                     |        |         |                                      |
|------------------------------------------------------------------|------------------------|---------------------|--------|---------|--------------------------------------|
| 360                                                              | Power on/off, status   | Page 1 - {{Icon 1}} | 1bit   | C,W     | 1.001 switch                         |
| <div> <div>1--</div> <div>0--</div> </div>                       |                        |                     |        |         |                                      |
| 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                         |
| <div> <div>/</div> <div>1</div> <div>0</div> <div>1</div> </div> |                        |                     |        |         |                                      |
| 363                                                              | Volume, status         | Page 1 - {{Icon 1}} | 1byte  | C,W,T,U | 5.001 percentage<br>5.004 percentage |
| <div> <div>1byte</div> <div>0..100 / 0..255</div> </div>         |                        |                     |        |         |                                      |
| 364                                                              | Mute, status           | Page 1 - {{Icon 1}} | 1bit   | C,W,T,U | 1.003 enable                         |
|                                                                  |                        |                     |        |         |                                      |
| 365                                                              | Play mode, status      | Page 1 - {{Icon 1}} | 1byte  | C,W,T,U | 5.010 counter pulses                 |
|                                                                  |                        |                     |        |         |                                      |
| 366                                                              | Track name             | Page 1 - {{Icon 1}} | 14byte | C,W,T,U | 16.001 character string (ISO 8859-1) |
|                                                                  |                        |                     |        |         |                                      |

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

6.6.5

## 6.8. "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      |
| 965   | Btn 1 - Switching | Long, Switch    |          |          | 1 bit  | C | - | W | T | U | switch    | Low      |
| 964   | Btn 1 - Switching | 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               | Priority |
|-------|----------------------|--------------------|----------|----------|---------|---|---|---|---|---|-------------------------|----------|
| 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 | - | switch control          | Low      |
| 965   | Btn 1 - Value sender | Long, 2bit value   |          |          | 2 bit   | C | - | - | T | - | switch control          | Low      |
| 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 |
|-------|------|-----------------|
|-------|------|-----------------|

|     |               |              |        |   |   |   |   |   |               |     |
|-----|---------------|--------------|--------|---|---|---|---|---|---------------|-----|
| 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 | T | 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    | Low      |
| 969    | Btn 1 - Blind | LED status         |             |               | 1 bit  | C | - | W | T | U | switch    | Low      |

## 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-SceneControl   |             |               | 1 byte | C | - | - | T | - | scene control           | Low      |
| 964    | Btn 1 - Multiple operation | Object1-Shift register |             |               | 1 byte | C | - | W | 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      |

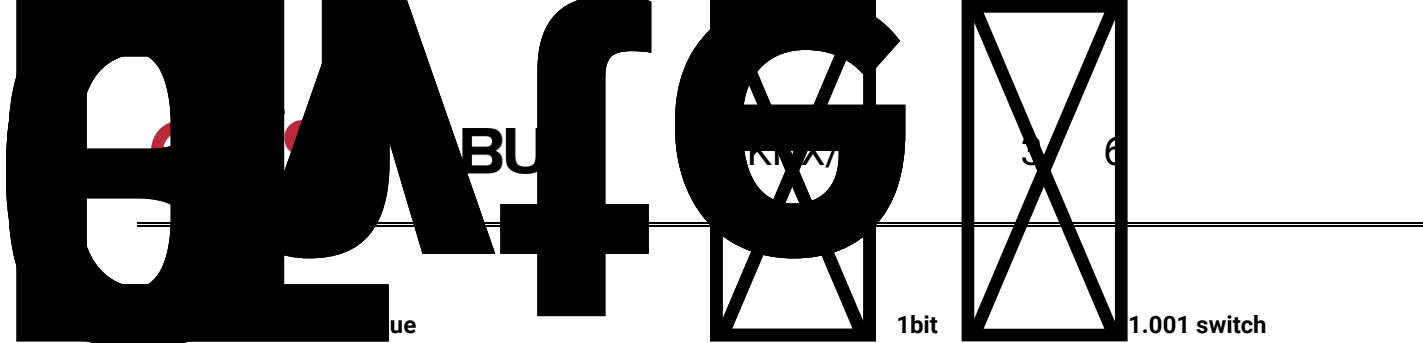
## RTC operation mode

| 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}} | 1bit | C,W,T,U | 1.001 switch  |
| 965                                                                                                                                                                                                                 | Release/Long, Switch | Btn 1 - {{Switching}} | 1bit | C,W,T,U | 1.001 switch  |
| <div> <div> <div>1</div> <div>“Switch”</div> <div>2</div> </div> <div> <div>“Short/Long”</div> <div>0</div> <div>1</div> </div> <div> <div>“Description (max 30char.)”</div> <div>“Btn 1 - ...”</div> </div> </div> |                      |                       |      |         |               |
| 964                                                                                                                                                                                                                 | Short, Switch        | Btn 1 - {{Dimming}}   | 1bit | C,W,T,U | 1.001 switch  |
| 965                                                                                                                                                                                                                 | Long, Dimming        | Btn 1 - {{Dimming}}   | 4bit | C,W,T   | 3.007 dimming |
| <div> <div>Obj.964</div> <div>0</div> <div>1</div> </div>                                                                                                                                                           |                      |                       |      |         |               |
| <div> <div>Obj.965</div> <div>1~7</div> <div>7 0 9~15</div> <div>9 15 8</div> </div>                                                                                                                                |                      |                       |      |         |               |



|     |                    |                          |        |     |                      |
|-----|--------------------|--------------------------|--------|-----|----------------------|
|     | Short, 2bit value  |                          | 1bit   |     | 1.001 switch         |
|     | Short, 2bit value  |                          | 2bit   |     | 2.001 switch control |
| 964 | Short, 4bit value  | Btn 1 - {{Value sender}} | 4bit   | C,T | 3.007 dimming        |
|     | Short, 1byte value |                          | 1byte  |     | 5.010 counter pulses |
|     | Short, 2byte value |                          | 2byte  |     | 7.001 pulses         |
|     | Long, 1bit value   |                          | 1bit   |     | 1.001 switch         |
|     | Long, 2bit value   |                          | 2bit   |     | 2.001 switch control |
| 965 | Long, 4bit value   | Btn 1 - {{Value sender}} | { 4bit | C,T | 3.007 dimming        |
|     | Long, 1byte value  |                          | 1byte  |     | 5.010 counter pulses |
|     | Long, 2byte value  |                          | 2byte  |     | 7.001 pulses         |

push button 0

8bit ( ) FXNNNNNN

F '0' '1'

X 0

NNNNNN 0...63

|     |     |
|-----|-----|
|     |     |
| 0   | 1   |
| 1   | 2   |
| 2   | 3   |
| ... | ... |
| 63  | 64  |
| 128 | 1   |
| 129 | 2   |
| 130 | 3   |
| ... | ... |
| 191 | 64  |

1~64 0~63 1

0

|     |                    |                   |      |       |               |
|-----|--------------------|-------------------|------|-------|---------------|
| 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    |

|                                                                                                         |                                                                                                           |                                |                                         |                                     |                                                                                                               |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <div> <div>Obj.964</div> <div>/</div> <div>1</div> <div>0</div> <div>Obj.965</div> <div>1—</div> </div> |                                                                                                           |                                |                                         |                                     |                                                                                                               |
| 964                                                                                                     | Register value                                                                                            | Btn 1 - {{Shift register}}     | 1byte                                   | C,W,T                               | 5.010 counter pulses                                                                                          |
|                                                                                                         |                                                                                                           |                                |                                         |                                     |                                                                                                               |
| 964                                                                                                     | Object1-On/Off<br>Object1-Up/Down<br>Object1-SceneControl<br>Object1-Percentage<br>Object1-Unsigned value | Btn 1 - {{Multiple operation}} | 1bit<br>1bit<br>1byte<br>1byte<br>1byte | C,W,T<br>C,W,T<br>C,T<br>C,T<br>C,T | 1.001 switch<br>1.008 up/down<br>18.001 scene control<br>5.001<br>percentage(0..100%)<br>5.010 counter pulses |
| <div>44</div>                                                                                           |                                                                                                           |                                |                                         |                                     |                                                                                                               |
| 964                                                                                                     | Short, Delay mode                                                                                         | Btn 1 - {{Delay mode}}         | 1bit<br>4bit<br>1byte                   | C,T                                 | 1.001 switch<br>3.007 dimming<br>5.010 counter pulses                                                         |
| 965                                                                                                     | Long, Delay mode                                                                                          | Btn 1 - {{Delay mode}}         | 1bit<br>4bit<br>1byte                   | C,T                                 | 1.001 switch<br>3.007 dimming<br>5.010 counter pulses                                                         |
|                                                                                                         |                                                                                                           |                                |                                         |                                     |                                                                                                               |

|     |                            |                      |       |     |                  |
|-----|----------------------------|----------------------|-------|-----|------------------|
| 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     |

1byte 964 1- 2- 3- 4-

1bit

964

965

966

967

"1" 1bit

0 1bit 1

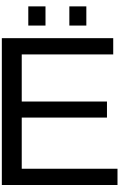
|     |        |                    |        |     |                                      |
|-----|--------|--------------------|--------|-----|--------------------------------------|
| 964 | String | Btn 1 - {{String}} | 14byte | C,T | 16.001 character string (ISO 8859-1) |
|-----|--------|--------------------|--------|-----|--------------------------------------|

|     |         |                 |      |     |              |
|-----|---------|-----------------|------|-----|--------------|
| 968 | Disable | Btn 1 - {{...}} | 1bit | C,W | 1.003 enable |
|-----|---------|-----------------|------|-----|--------------|

/

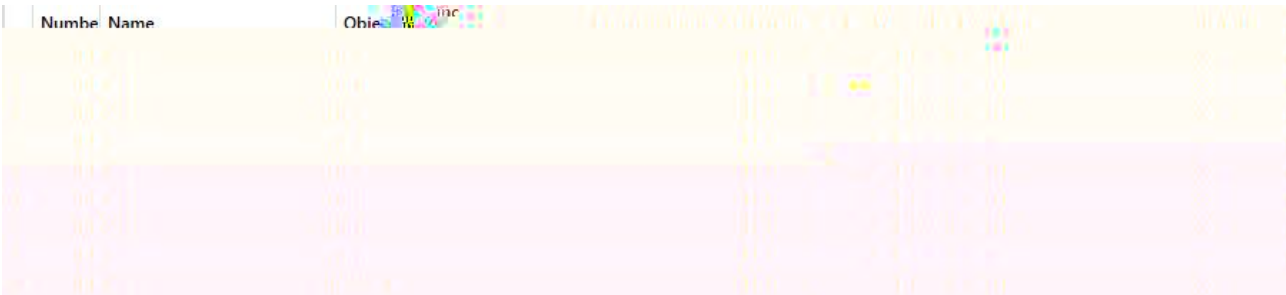
|     |            |                 |               |         |                                      |
|-----|------------|-----------------|---------------|---------|--------------------------------------|
| 969 | LED status | Btn 1 - {{...}} | 1bit<br>1byte | C,W,T,U | 1.001 switch<br>5.010 counter pulses |
|-----|------------|-----------------|---------------|---------|--------------------------------------|

LED



6.9.“Logic”

6.8.1. “AND/OR/XOR”



6.8.1 “AND/OR/XOR”

|                                                                           |              |               |      |         |               |
|---------------------------------------------------------------------------|--------------|---------------|------|---------|---------------|
|                                                                           |              |               |      |         | DPT           |
| 11/.../1<br>8                                                             | Input x      | {{1st Logic}} | 1bit | C,W,T,U | 1.002 boolean |
| Input x<br><br>“Description for logic function”<br><br>Logic”<br><br>“1st |              |               |      |         |               |
| 19                                                                        | Logic result | {{1st Logic}} | 1bit | C,T     | 1.002 boolean |
|                                                                           |              |               |      |         |               |

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 | 1 byte   | C        | 1      | 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                                                      |
|               |                   |               |                       |     |                                                                          |
| 12/.../1<br>5 | Input x           | {{1st Logic}} | 1bit<br>4bit<br>1byte | C,W | 1.001 switch<br>3.007 dimming control<br>5.010 counter<br>pulses(0..255) |
| Input x       |                   |               |                       |     |                                                                          |
| 16/.../1<br>9 | Output x          | {{1st Logic}} | 1bit<br>4bit<br>1byte | C,T | 1.001 switch<br>3.007 dimming control<br>5.010 counter<br>pulses(0..255) |
|               |                   |               |                       |     |                                                                          |

### 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<br>1byte<br>2byte<br>4byte | C,W, U | <b>3.007 dimming</b><br><b>5.010 counter pulses</b><br><b>7.001 pulses</b><br><b>12.001 counter pulses</b><br><b>8.x signed value</b><br><b>9.x float value</b><br><b>9.001 temperature</b><br><b>9.007 humidity</b><br><b>9.004 lux</b> |
| 19 | Logic result          | {{1st Logic}} | 1bit                            | C,T    | 1.002 boolean                                                                                                                                                                                                                            |

6.8.3 "Threshold comparator"

#### 6.8.4. "Format convert"

| Numbe | Name      | Object Function | Descript | Group Ad | Length | C | R | W | T | U | Data Type      | Priori |
|-------|-----------|-----------------|----------|----------|--------|---|---|---|---|---|----------------|--------|
| 11    | 1st Logic | Input 1bit-bit0 | 1 bit    | C        | 1      | - | - | - | - | - | boolean        | Low    |
| 12    | 1st Logic | Input 1bit-bit1 | 1 bit    | C        | 1      | - | - | - | - | - | boolean        | Low    |
| 13    | 1st Logic | Input 1bit-bit2 | 1 bit    | C        | 1      | - | - | - | - | - | boolean        | Low    |
| 14    | 1st Logic | Input 1bit-bit3 | 1 bit    | C        | 1      | - | - | - | - | - | boolean        | Low    |
| 15    | 1st Logic | Input 1bit-bit4 | 1 bit    | C        | 1      | - | - | - | - | - | boolean        | Low    |
| 16    | 1st Logic | Input 1bit-bit5 | 1 bit    | C        | 1      | - | - | - | - | - | boolean        | Low    |
| 17    | 1st Logic | Input 1bit-bit6 | 1 bit    | C        | 1      | - | - | - | - | - | boolean        | Low    |
| 18    | 1st Logic | Input 1bit-bit7 | 1 bit    | C        | 1      | - | - | - | - | - | boolean        | Low    |
| 19    | 1st Logic | Output 2bit     | 2 bit    | C        | 2      | - | - | - | - | - | switch control | Low    |

"2x1bit --> 1x2bit"

2 1bit

2bit

Input bit1=1, bit0=0--> Output 2bit=2

| Numbe | Name      | Object Function | Descript | Group Ad | Length | C | R | W | T | U | Data Type               | Priori |
|-------|-----------|-----------------|----------|----------|--------|---|---|---|---|---|-------------------------|--------|
| 11    | 1st Logic | Input 1bit-bit0 | 1 bit    | C        | 1      | - | - | - | - | - | boolean                 | Low    |
| 12    | 1st Logic | Input 1bit-bit1 | 1 bit    | C        | 1      | - | - | - | - | - | boolean                 | Low    |
| 13    | 1st Logic | Input 1bit-bit2 | 1 bit    | C        | 1      | - | - | - | - | - | boolean                 | Low    |
| 14    | 1st Logic | Input 1bit-bit3 | 1 bit    | C        | 1      | - | - | - | - | - | boolean                 | Low    |
| 15    | 1st Logic | Input 1bit-bit4 | 1 bit    | C        | 1      | - | - | - | - | - | boolean                 | Low    |
| 16    | 1st Logic | Input 1bit-bit5 | 1 bit    | C        | 1      | - | - | - | - | - | boolean                 | Low    |
| 17    | 1st Logic | Input 1bit-bit6 | 1 bit    | C        | 1      | - | - | - | - | - | boolean                 | Low    |
| 18    | 1st Logic | Input 1bit-bit7 | 1 bit    | C        | 1      | - | - | - | - | - | boolean                 | Low    |
| 19    | 1st Logic | Output 1byte    | 1 byte   | C        | 1      | - | - | - | - | - | counter pulses (0..255) | Low    |

"8x1bit --> 1x1byte"

: 8 1bit

1byte

Input bit2=1, bit1=1, bit0=1,

0-->

Output 1byte=7

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

"1x1byte --> 1x2byte"

1byte

2byte

Input 1byte=125--> Output 2byte=125,

| Numbe | Name      | Object Function  | Descript | Group Ad | Length | C | R | W | T | U | Data Type               | Priori |
|-------|-----------|------------------|----------|----------|--------|---|---|---|---|---|-------------------------|--------|
| 11    | 1st Logic | Input 1byte-low  | 1 byte   | C        | 1      | - | - | - | - | - | counter pulses (0..255) | Low    |
| 12    | 1st Logic | Input 1byte-high | 1 byte   | C        | 1      | - | - | - | - | - | counter pulses (0..255) | Low    |
| 19    | 1st Logic | Output 2byte     | 2 bytes  | C        | 2      | - | - | - | - | - | pulses                  | Low    |

"2x1byte --> 1x2byte"

2 1byte

2byte

Input 1byte-low = 255 (\$FF), Input

1byte-high = 100 (\$64) --> Output 2byte = 25855 (\$64 FF)

| Numbe | Name      | Object Function  | Descript | Group Ad | Length | C | R | W | T | U | Data Type               | Priori |
|-------|-----------|------------------|----------|----------|--------|---|---|---|---|---|-------------------------|--------|
| 11    | 1st Logic | Input 1byte-low  | 1 byte   | C        | 1      | - | - | - | - | - | counter pulses (0..255) | Low    |
| 12    | 1st Logic | Input 1byte-high | 1 byte   | C        | 1      | - | - | - | - | - | counter pulses (0..255) | Low    |
| 19    | 1st Logic | Output 2byte     | 2 bytes  | C        | 2      | - | - | - | - | - | pulses                  | Low    |

"2x2byte --> 1x4byte"

2 2byte

4byte

Input 2byte-low = 65530 (\$FF FA), Input

2byte-high = 32768 (\$80 00)--> Output 2byte = 2147549178 (\$80 00 FF FA)

| Numbe | Name      | Object Function  | Descript | Group Ad | Length | C | R | W | T | U | Data Type | Priori |
|-------|-----------|------------------|----------|----------|--------|---|---|---|---|---|-----------|--------|
| 12    | 1st Logic | Output 1bit-bit0 | 1 bit    | C        | -      | - | T | - | - | - | boolean   | Low    |
| 13    | 1st Logic | Output 1bit-bit1 | 1 bit    | C        | -      | - | T | - | - | - | boolean   | Low    |
| 14    | 1st Logic | Output 1bit-bit2 | 1 bit    | C        | -      | - | T | - | - | - | boolean   | Low    |
| 15    | 1st Logic | Output 1bit-bit3 | 1 bit    | C        | -      | - | T | - | - | - | boolean   | Low    |
| 16    | 1st Logic | Output 1bit-bit4 | 1 bit    | C        | -      | - | T | - | - | - | boolean   | Low    |
| 17    | 1st Logic | Output 1bit-bit5 | 1 bit    | C        | -      | - | T | - | - | - | boolean   | Low    |
| 18    | 1st Logic | Output 1bit-bit6 | 1 bit    | C        | -      | - | T | - | - | - | boolean   | Low    |
| 19    | 1st Logic | Output 1bit-bit7 | 1 bit    | C        | -      | - | T | - | - | - | boolean   | Low    |

"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               | Priori |
|-------|-----------|-------------------|----------|----------|--------|---|---|---|---|---|-------------------------|--------|
| 11    | 1st Logic | Input 2byte       | 2 bytes  | C        | -      | W | - | - | - | - | 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)

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

"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               | Priori |
|-------|-----------|---------------------|----------|----------|--------|---|---|---|---|---|-------------------------|--------|
| 11    | 1st Logic | Input 3byte         | 3 bytes  | C        | -      | W | - | - | - | - | RGB value 3x(0..255)    | Low    |
| 17    | 1st Logic | Output 1byte-low    | 1 byte   | C        | -      | - | T | - | - | - | counter pulses (0..255) | Low    |
| 18    | 1st Logic | Output 1byte-middle | 1 byte   | C        | -      | - | T | - | - | - | counter pulses (0..255) | Low    |
| 19    | 1st Logic | Output 1byte-high   | 1 byte   | C        | -      | - | T | - | - | - | counter pulses (0..255) | Low    |

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

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

"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<br>1byte<br>2byte<br>3byte<br>4byte         | C,W,U | 1.001 switch<br>5.010 counter pulses(0..255)<br>7.001 pulses<br>232.600 RGB value 3x(0..255)<br>12.001 counter pulses                         |
| 19 | Output ... | {{1st Logic}} | 1bit<br>2bit<br>1byte<br>2byte<br>3byte<br>4byte | C,T   | 1.001 switch<br>2.001 switch control<br>5.010 counter pulses(0..255)<br>7.001 pulses<br>232.600 RGB value 3x(0..255)<br>12.001 counter pulses |

#### 6.8.4 "Format convert"

#### 6.8.5. "Gate function"

| Numbe | Name      | Object Function | Description | Group Ad | Length | C | R | W | T | U | Data Type               | Priori |
|-------|-----------|-----------------|-------------|----------|--------|---|---|---|---|---|-------------------------|--------|
| 11    | 1st Logic | Input           |             |          | 1 byte | C | - | W | - | - | counter pulses (0..255) | Low    |
| 12    | 1st Logic | Gate input      |             |          | 1 bit  | C | - | W | - | - | boolean                 | Low    |
| 12    | 1st Logic | Output          |             |          | 1 byte | C | - | - | T | - | counter pulses (0..255) | Low    |

| Numbe | Name      | Object Function | Description | Group Ad | Length  | C | R | W | T | U | Data Type        | Priority |
|-------|-----------|-----------------|-------------|----------|---------|---|---|---|---|---|------------------|----------|
| 11    | 1st Logic | Input           |             |          | 2 bytes | C | - | W | - | - | temperature (°C) | Low      |
| 12    | 1st Logic | Gate input      |             |          | 1 bit   | C | - | W | - | - | boolean          | Low      |
| 19    | 1st Logic | Output          |             |          | 2 bytes | C | - | - | T | - | temperature (°C) | Low      |

| Number                         | Name       | Object Function | Description            | Group | Address Length | C | R | W   | T | U | Data Type                                                                                     |
|--------------------------------|------------|-----------------|------------------------|-------|----------------|---|---|-----|---|---|-----------------------------------------------------------------------------------------------|
| Input/Output - 2byte[0..65535] |            |                 |                        |       |                |   |   |     |   |   |                                                                                               |
| 6.8.5 "Gate function"          |            |                 |                        |       |                |   |   |     |   |   |                                                                                               |
|                                |            |                 |                        |       |                |   |   |     |   |   | DPT                                                                                           |
| 11                             | Input      | {{1st Logic}}   | 1bit<br>1byte<br>2byte |       |                |   |   | C,W |   |   | 1.001 switch<br>5.001 percentage<br>5.010 counter pulses<br>9.001 temperature<br>7.001 pulses |
|                                |            |                 |                        |       |                |   |   |     |   |   |                                                                                               |
| 12                             | Gate input | {{1st Logic}}   | 1bit                   |       |                |   |   | C,W |   |   | 1.002 boolean                                                                                 |
|                                |            |                 |                        |       |                |   |   |     |   |   |                                                                                               |
| 13                             | Output     | {{1st Logic}}   | bit<br>1byte<br>2byte  |       |                |   |   | C,T |   |   | 1.001 switch<br>5.001 percentage<br>5.010 counter pulses<br>9.001 temperature<br>7.001 pulses |
|                                |            |                 |                        |       |                |   |   |     |   |   |                                                                                               |
| "Gate input"                   |            |                 |                        |       |                |   |   |     |   |   |                                                                                               |

### 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]

| 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..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]

| 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[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<br>1byte<br>2byte | C,W | 1.001 switch<br>5.001 percentage<br>5.010 counter pulses<br>9.001 temperature<br>7.001 pulses |
| 19 | Output | {{1st Logic}} | 1bit<br>1byte<br>2byte | C,T | 1.001 switch<br>5.001 percentage<br>5.010 counter pulses<br>9.001 temperature<br>7.001 pulses |

## 6.8.6 "Delay function"

### 6.8.7. "Staircase lighting"

| Number | Name      | Object Function        | Descriptor | Group Address | Length  | C | R | W | T | U | Data Type               | Priority |
|--------|-----------|------------------------|------------|---------------|---------|---|---|---|---|---|-------------------------|----------|
| 11     | 1st Logic | Trigger value          |            |               | 1 bit   | C | - | W | - | - | trigger                 | Low      |
| 12     | 1st Logic | Light-on duration time |            |               | 2 bytes | C | - | W | - | - | time (s)                | Low      |
| 19     | 1st Logic | Output                 |            |               | 1 bit   | C | - | W | - | - | 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                        |
| 12 | Light-on duration time | {{1st Logic}} | 2byte         | C,W | 7.005 time(s)                        |
| 19 | Output                 | {{1st Logic}} | 1bit<br>1byte | C,T | 1.001 switch<br>5.010 counter pulses |
| 1  |                        | 2             |               |     |                                      |

#### 6.8.7 "Staircase lighting"

## 6.10. "Scene Group"

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

6.9 "Scene Group"

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

6.9 "Scene Group"