Black & White Touch Thermostat

Manual-Ver1.0

TC0103

Content

1. Overview 3
2. Product and functional application overview 3
2.1 Product 3
2.2 Functions 3
3. Specification 4
4. Dimensional drawings and connection diagrams 4
5. Product operation and installation instructions 5
5.1 Product operation 5
5.2 Installations 6
6. Parameter setting instructions 6
6.1 General 6
6.2 Air conditioning 9
6.3 Fan coil 13
6.4 Floor heating 15
6.5 Ventilation system 17
6.6 Public function 19
7. Communication object description 22
8. Safe use and maintenance 33
9. Contact information 33

1. Overview

This manual provides you with detailed technical information on controlling the black and white full-screen temperature control panel, including installation and programming details, and explains how to use the device based on practical examples of use. The black and white full-screen temperature control panel is mainly used in building control systems. It can be combined with other devices on the bus, connected to the bus through KNX terminal blocks, and installed together to form a system. The function is simple and intuitive to operate, and users can customize it according to their own needs. Plan and execute these functions systematically.
The black and white full-screen temperature control panel can be used to control air conditioning, fan coil units, fresh air, floor heating, etc.
Installed together with other devices through the EIB/KNX bus to form a system.
Set up and operate the entire system using the engineering design tool software ETS

2. Product and functional application overview

2.1 Product

The black & white touch thermostat adopts a standard 86-box wall-mounted installation method, is powered by the KNX bus, and is connected to the EIB/KNX system through the EIB bus. The engineering design tool ETS software (version ETS4 or above) is used to allocate physical addresses and group addresses. and parameter settings;

The black & white touch thermostat controls air conditioning, fresh air, floor heating and other equipment through touch screen. Users can adjust the functional configuration according to their own needs, and the screen displays the current control status.

2.2 Functions

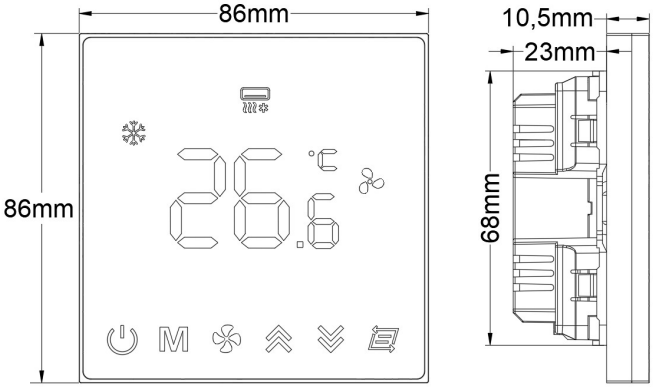
(1) Has the control output function of air conditioning equipment;
(2) Has the control output function of fresh air equipment;
(3) Has the control output function of floor heating equipment;
(4) Has switch and feedback display functions for air conditioning, fresh air and floor heating;
(5) Has temperature setting and feedback display functions for air conditioning and floor heating;
(6) Has wind speed setting and feedback display functions for air conditioning and fresh air, and can set low, medium and high wind speeds;
(7) Has air conditioning mode setting and feedback display, including cooling, heating, air supply, dehumidification and other modes;
(8) Has special display pages for air conditioning, floor heating, fresh air, etc.;
(9) Built-in infrared sensor, the screen can be easily turned on when people come and turn off when people leave;
(10) Built-in temperature sensor, supports Celsius and Fahrenheit temperature display;
(11) Support fresh air system, air conditioning system, floor heating system, and fan coil control.

3. Specification

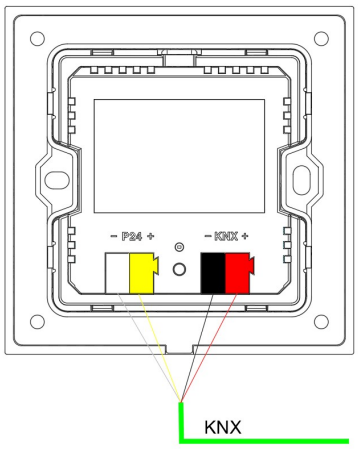
Bus Voltage	21-30V DC
Bus Current	≤ 12mA
Bus Rate	≤ 360mW
Auxiliary Power	24 V DC
Auxiliary Current	< 30 mA
Auxiliary Power consumption	< 0.72 W
Temperature detection accuracy	±0.5 ℃
Operating temperature	-5°...+45°C
Storage temperature	-25°...+55°C
Transport temperature	-25°...+70°C
Relative humidity	max 90%
Shell material	Metal +PC
Dimension (H x W x D)	86X86X34 mm
Weight (approx.)	Around 0.1kg
Installation	Standard 86 wall box

4. Dimensional drawings and connection diagrams

Dimension

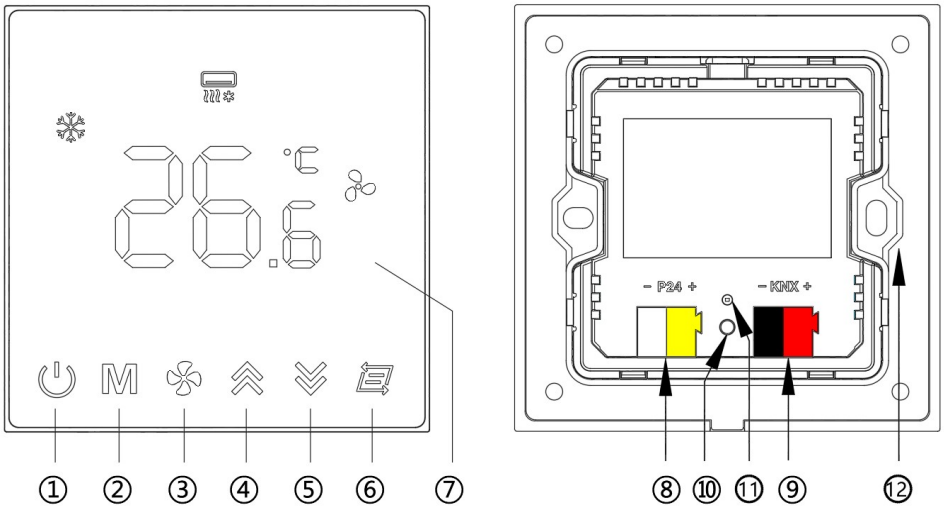


Drawing



5. Product operation and installation instructions

5.1 Product operation



①On/off button;

②Air conditioning mode switching button, cooling mode → heating mode → air supply mode → dehumidification mode;

③The wind speed adjustment button is used to adjust the low, medium, high and automatic gears of the wind speed in the corresponding mode;

④Temperature adjustment button, temperature "+";

⑤Temperature adjustment button, temperature "-";

⑥Function switching button, air conditioning function interface → floor heating function interface → fresh air function interface;

⑦Display screen, showing switch status, temperature, wind speed, etc.;

⑧Auxiliary power supply terminal;

⑨KNX power supply terminal;

⑩Programming button, click the button for the first time to enter the programming mode, click the button again to cancel the programming mode;

⑪Programming indicator light, the indicator light lights up and enters the programming state. When it is in the programming state or programming is completed, the indicator light automatically goes out;

⑫Fixed bracket, suitable for standard 86 bottom box installation;

5.2 Installations

(1) Remove the fixing bracket embedded in the back cover of the panel and install it on the standard 86 bottom box, and tighten the fixing screws;

(2) Snap the control panel into the fixed bracket, that is, the installation is successful;

(3) When you need to remove the panel, use a flat-blade screwdriver to gently pry the fixing bracket at the groove at the lower end of the panel;

6. Parameter setting instructions

The following takes ETS5 as an example to set parameters in ETS5.
Open the parameter setting interface of the black and white full-screen temperature control panel in ETS5, as shown in Figure 6.1.1

6.1 General

6.1.1 Function

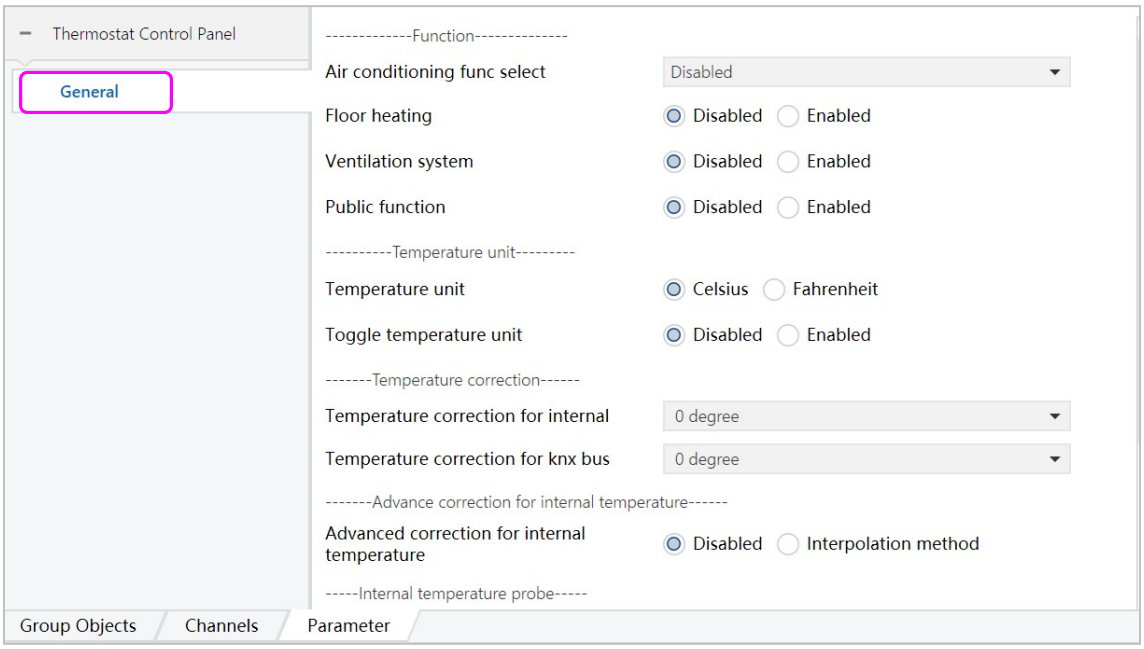


Figure 6.1.1

Parameter: "Air conditioning func select"
Options: disabled;
air conditioning;
Fan coil

6.1.2 Temperature unit

1) "Temperature unit" option: "Celsius", "Fahrenheit"

2) "Toggle temperature unit" option: "Disabled", "Enabled"
When choose "Enabled", will show the parameter as "Temperature unit polarity", Options:
"0: Centigrade,1:Fahrenheit" (When the value "0" is received, the temperature unit is Celsius; when the value "1" is received, the temperature unit is Fahrenheit.)、
"0: Fahrenheit,1: Centigrade" (When the value "0" is received, the temperature unit is Fahrenheit; when the value "1" is received, the temperature unit is Celsius.)。
3) "Send toggle temperature unit" Indicates feedback for switching temperature units, options: "Disabled", "Enabled"

6.1.3 Temperature correction

1) "Temperature correction for internal" options : -9℃ ~ 9℃
2) "Temperature correction for KNX bus" options : -9℃ ~ 9℃

6.1.4 Child lock

When you choose "Enabled", parameter will show
① "Initial value for child lock, options: unlocking, locking,
② "child lock polarity" options:
"0: unlock 1: lock" (When the value "0" is sent, it is the unlocked state, and when the value "1" is sent, it is the locked state.);
"0: lock 1: unlock" (When the value "0" is sent, it is the locked state, and when the value "1" is sent, it is the unlocked state.);
③ " Send child lock control" options: "Disabled", "Enabled"

6.1.5 Backlight

Backlight settings
When choose "Enabled", as shown in Figure 6.1.5.1, the options in the red box appear

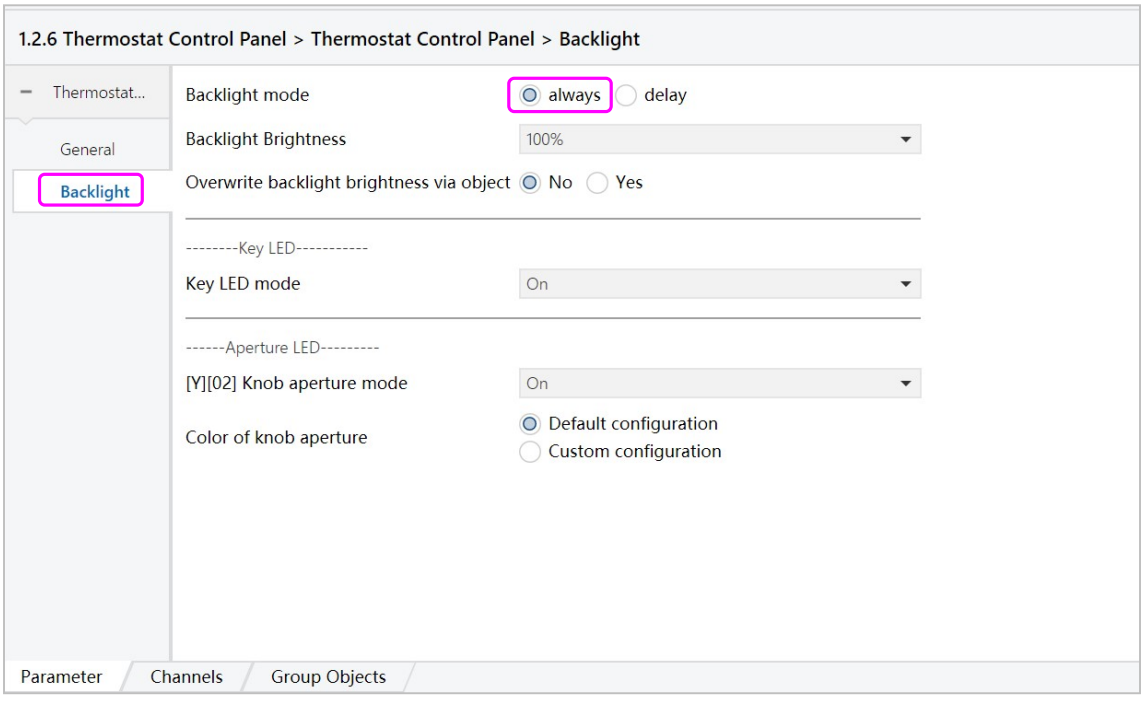


Figure 6.1.5.1

Click the option in the red box above to set the relevant parameters, as shown in Figure 6.1.5.2

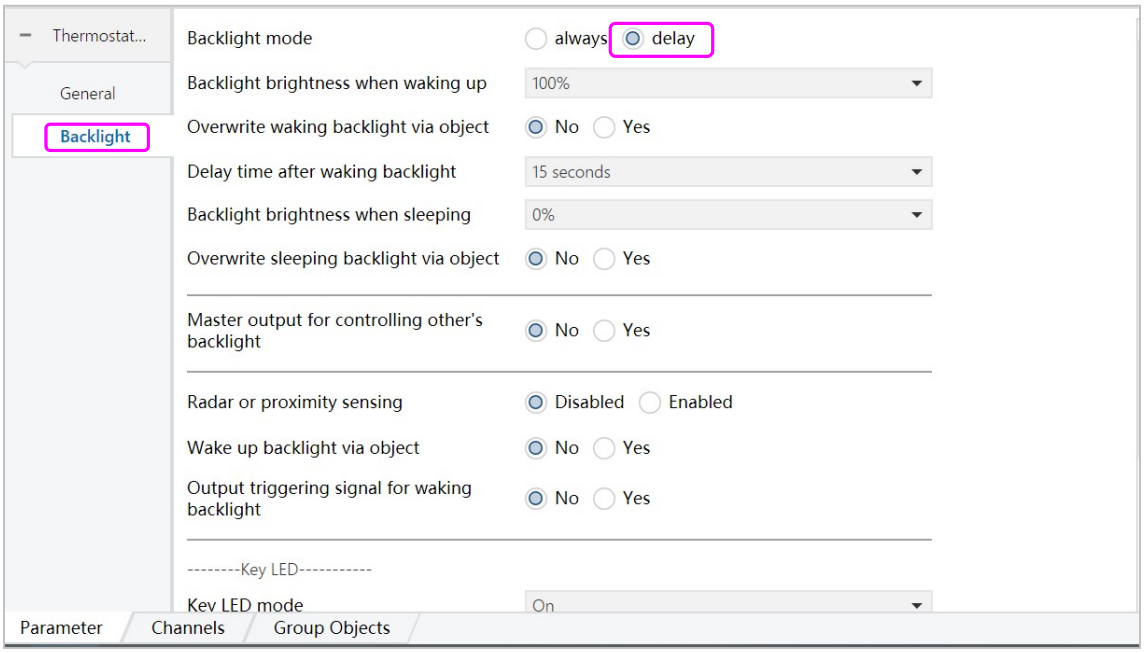


Figure 6.1.5.2

Backlight mode, options: “always”，“delay” ；

When "always" is selected as the parameter, the following parameters appear:

Parameter	Description
Backlight brightness	Indicates the backlight brightness value, optional：0%、1%.....100%
Overwrite backlight brightness via object	Overwriting the brightness value through the object，option： “Yes”，“No”

When "delay" is selected as the parameter, the following parameters appear:

Parameter	Description
Backlight brightness when waking up	Indicates the backlight brightness when waking up, optional: 0%, 1%, 2%...100%
Overwrite waking backlight via object	Indicates waking up the backlight brightness through object rewriting, optional: "Yes", "No"
Delay time after waking backlight	Indicates the delay time to turn off the backlight after it wakes up. Optional: "delay according to master device" (delay according to the switch signal sent by the master device), "delay according to own radar or IR" (according to the built-in radar or IR) Infrared delay), "1second" (1 second delay), 2seconds (2 second delay) ... "120minutes" (120 minutes delay).
Backlight brightness when sleeping	Indicates the backlight brightness after delayed shutdown, optional: 0%, 1%...100%
Overwrite sleeping backlight via object	Indicates the backlight brightness after turning off through object overwriting, optional: "Yes", "No"
Master output for controlling other’ s backlight	Indicates that the master device sends switch information to control the backlights of other slave temperature control panel devices. Optional: "Yes", "No"
Radar or proximity sensing	Indicates radar or close-range sensing, optional: "Disabled", "Enabled"; when "Enabled" is selected, the parameter "Time to detect sensor circularly for

	output" indicates the time detection sensor circularly outputs, optional: only once when triggered (Only trigger once), "1second" (1 second delay), 2seconds (2 second delay) ... "15seconds" (15 second delay).
Wake up backlight via object	Indicates waking up the backlight through the object, optional: "Yes", "No"; when "Yes" is selected, the parameter The triggering value for waking backlight indicates the triggering value for waking up the backlight, optional options: Off is triggering value (Off is the triggering value), On is triggering value (On is the triggering value).
Output triggering signal for waking backlight	Indicates the output trigger signal to wake up the backlight, optional: "Yes", "No"; when "Yes" is selected, the parameter The triggering value for output indicates the output triggering value, optional: Off is triggering value (Off is the triggering value), On is triggering value (On is the triggering value).
Key LED mode	Indicates the LED mode of the button, the options are: "Associated backlight delay" (related to backlight delay), "Off", "On";
Aperture LED	Not available yet
Aperture color	Not available yet

6.2 Air conditioning

When "Air conditioning" is selected for the parameter "Air conditioning func select", as shown in Figure 6.2.1, the options in the red box will appear.

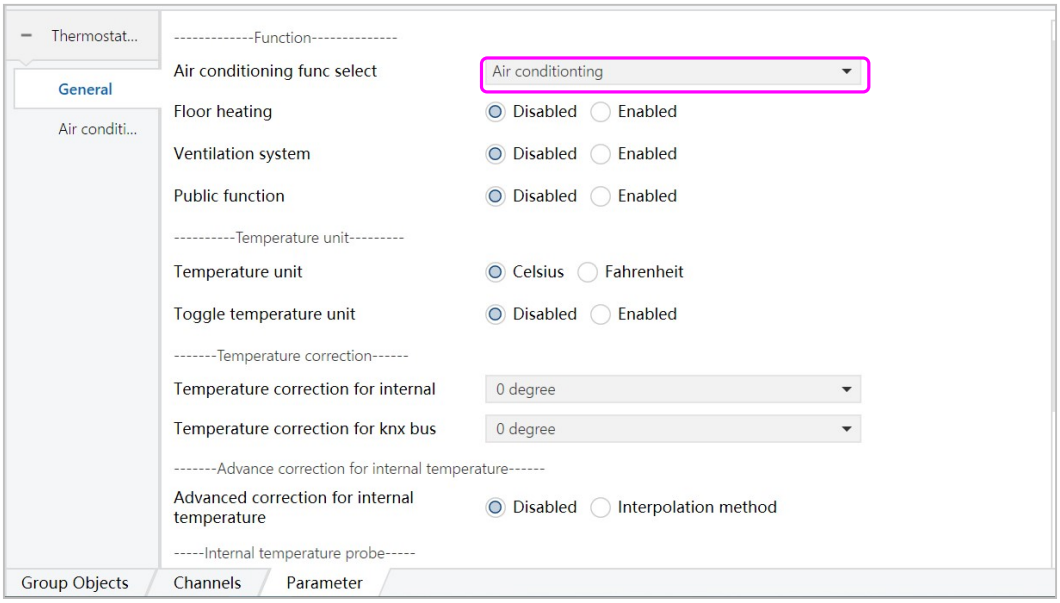


Figure 6.2.1

Click the option in the red box above to set the relevant parameters, as shown in Figure 6.2.2.

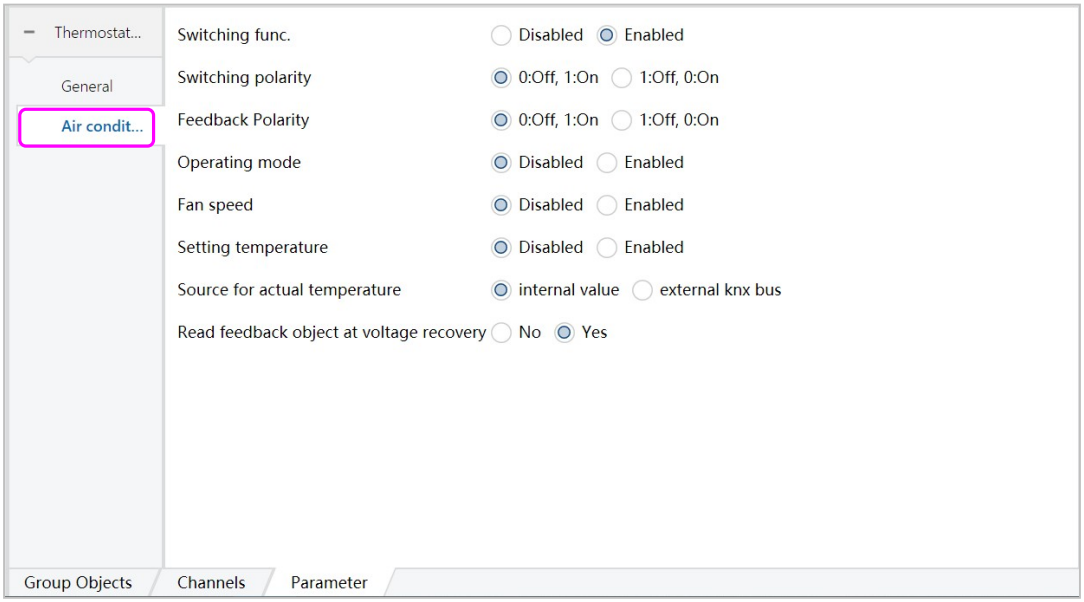


Figure 6.2.2

1) Switching func. Indicates the switching function. When "Enabled" is selected, the following two parameters appear:

① "Switching polarity" indicates the switching polarity. The options are: 0: off, 1: on (the value 0 is sent out, which is off, and the value 1 is open), 1: off, 0: on (the value 1 is sent out, it is off, and the value 0 is open).

② "Feedback polarity" indicates the feedback polarity, options: 0: off, 1: on (feedback value 0 is off, 1 is on), 1: off,0: on (feedback value 1 is off, 0 is on)

2) Operating mode represents the operating mode. When "Enabled" is selected, the options in the red box will appear as shown in Figure 6.2.3.

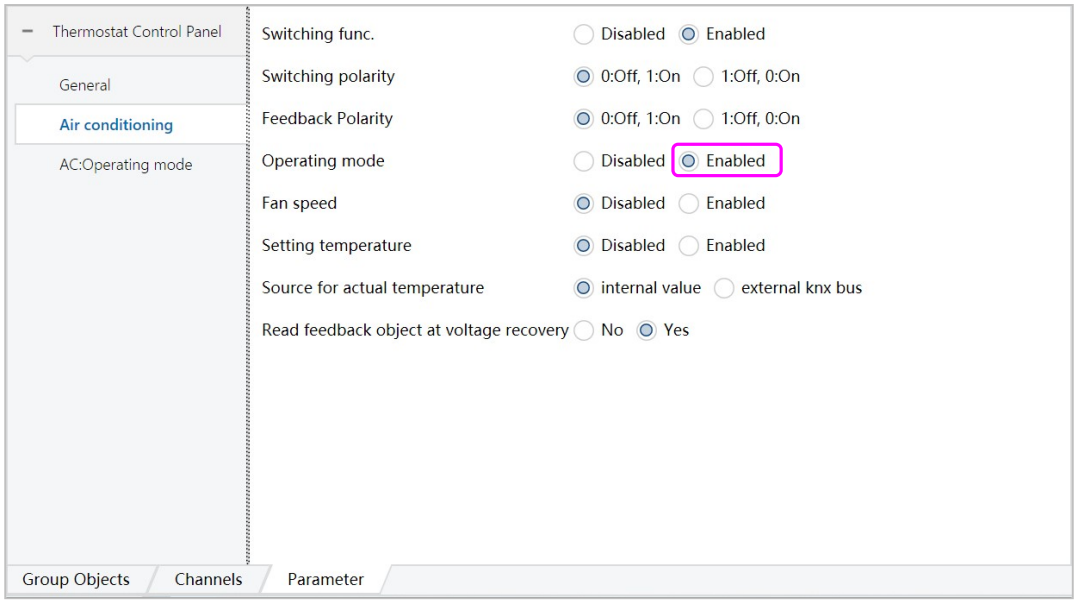


Figure 6.2.3

Click the option in the red box above to set the relevant parameters, as shown in Figure 6.2.4

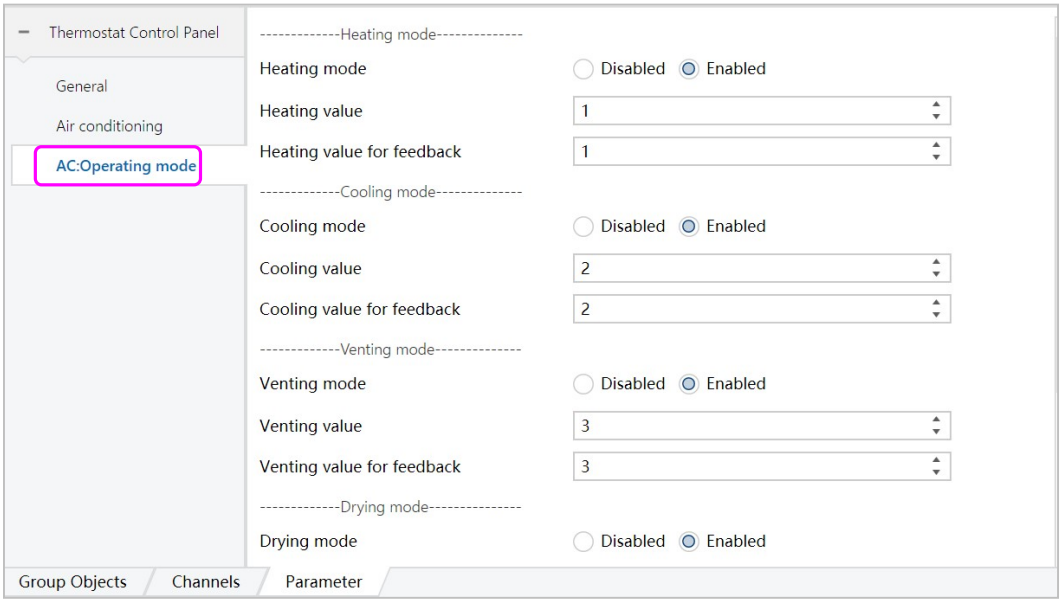


Figure 6.2.4

Parameter		Description
Heating mode, option：Disabled, enabled; when choose Enabled,	Heating value	Heating mode sends a value, filled in 0-255;
	Heating value for feedback	Heating mode feedback value, filled in 0-255;
Cooling mode, option：Disabled, enabled; when choose Enabled,	Cooling value	Cooling mode sends a value, filled in 0-255;
	Cooling value for feedback	Colling mode feedback value, filled in 0-255;
Venting mode, option：Disabled, enabled; when choose Enabled,	Venting value	Air supply mode sends a value, filled in 0-255;
	Venting value for feedback	送风模式反馈数值，, filled in 0-255;
Drying mode, option：Disabled, enabled; when choose Enabled,	Drying value	Air supply mode feedback value, filled in 0-255;
	Drying value for feedback	Dehumidification mode feedback value, filled in 0-255;
Automatic mode, option：Disabled, enabled; when choose Enabled,	Automatic value	Send values in automatic mode, filled in 0-255;
	Automatic value for feedback	Automatic mode feedback value, filled in 0-255;

3）Fan speed indicates the air conditioner wind speed, select “Enabled”, and the options in the red box as shown in Figure 6.2.5 will appear.

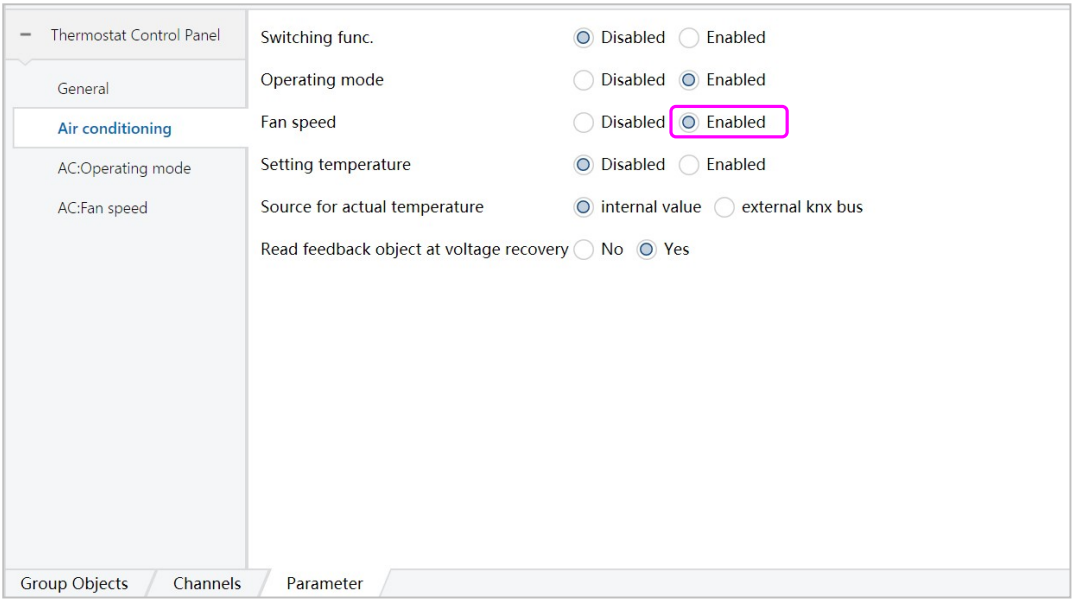


Figure 6.2.5

Click the option in the red box above to set the relevant parameters, as shown in Figure 6.2.6

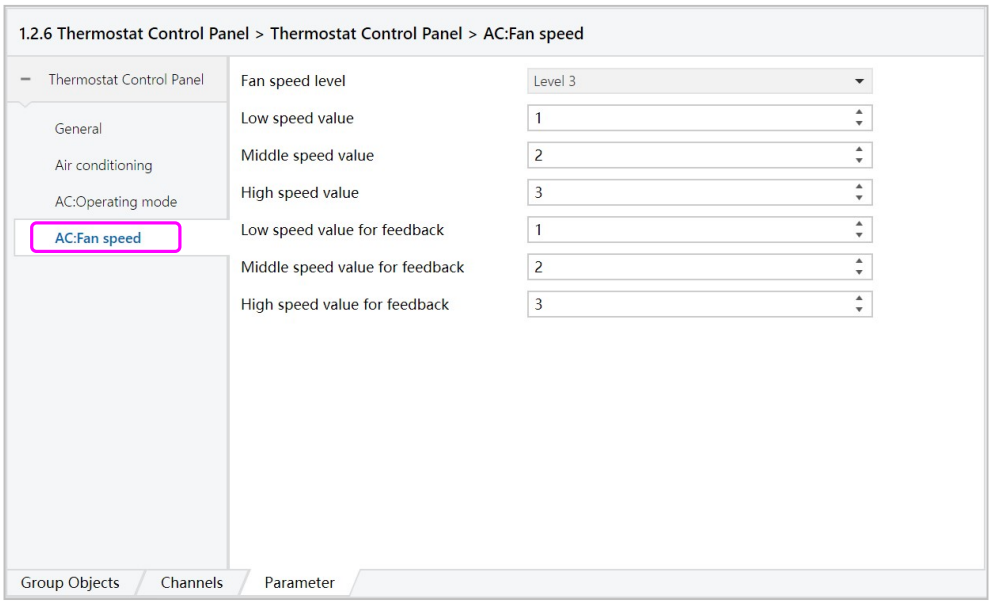


Figure 6.2.6

The parameter "Fan speed level" indicates the classification of wind speed level. The options are: Level 2, Level 3, and Level 5. When Level 2 is selected, the following parameters appear

Parameter	Description
Low speed level	Could fill in 0-255
High speed value	Could fill in 0-255
Low speed value for feedback	Could fill in 0-255
High speed value for feedback	Could fill in 0-255

When Level 3 is selected, the following parameters appear

Parameter	Description
Low speed value	Could fill in 0-255
Middle speed value	Could fill in 0-255
High speed value	Could fill in 0-255
Low speed value for feedback	Could fill in 0-255
Middle speed value for feedback	Could fill in 0-255
High speed value for feedback	Could fill in 0-255

When Level 5 is selected, the following parameters appear

Parameter	Description
Value for speed level 1	Could fill in 0-255
Value for speed level 2	Could fill in 0-255
Value for speed level 3	Could fill in 0-255
Value for speed level 4	Could fill in 0-255

Value for speed level 5	Could fill in 0-255
Value for speed level 1 for feedback	Could fill in 0-255
Value for speed level 2 for feedback	Could fill in 0-255
Value for speed level 3 for feedback	Could fill in 0-255
Value for speed level 4 for feedback	Could fill in 0-255
Value for speed level 5 for feedback	Could fill in 0-255

4）setting temperature, options: Disabled, Enabled, the setting range is 16℃-30℃.

5）Source for actual temperature, options: internal value, external KNX bus

6）Read feedback object at voltage recovery, options: “Yes”，“No”

6.3 Fan coil

Select "Fan coil" for the parameter "Air conditioning func select", as shown in Figure 6.3.1, and the options in the red box will appear.

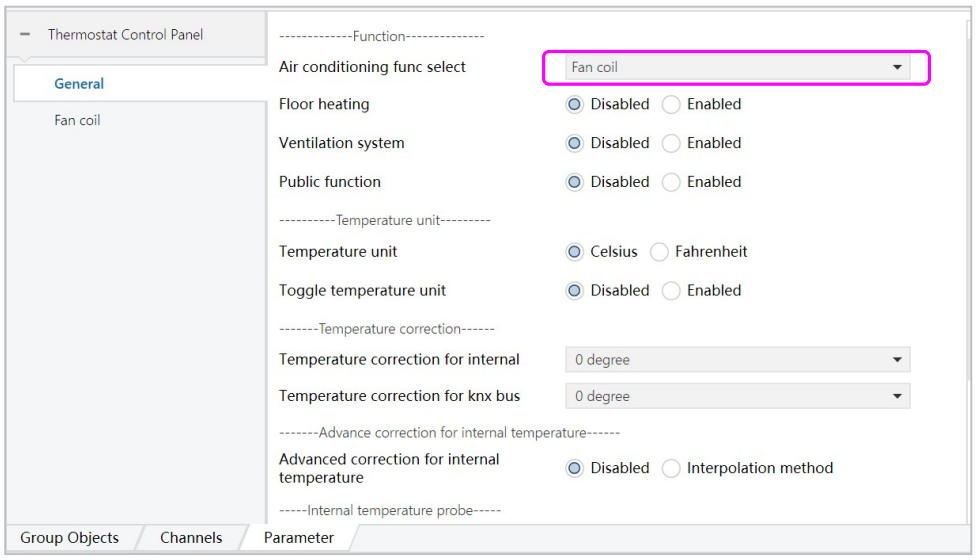


Figure 6.3.1

Click the option in the red box above to set the relevant parameters, as shown in Figure 6.3.2,

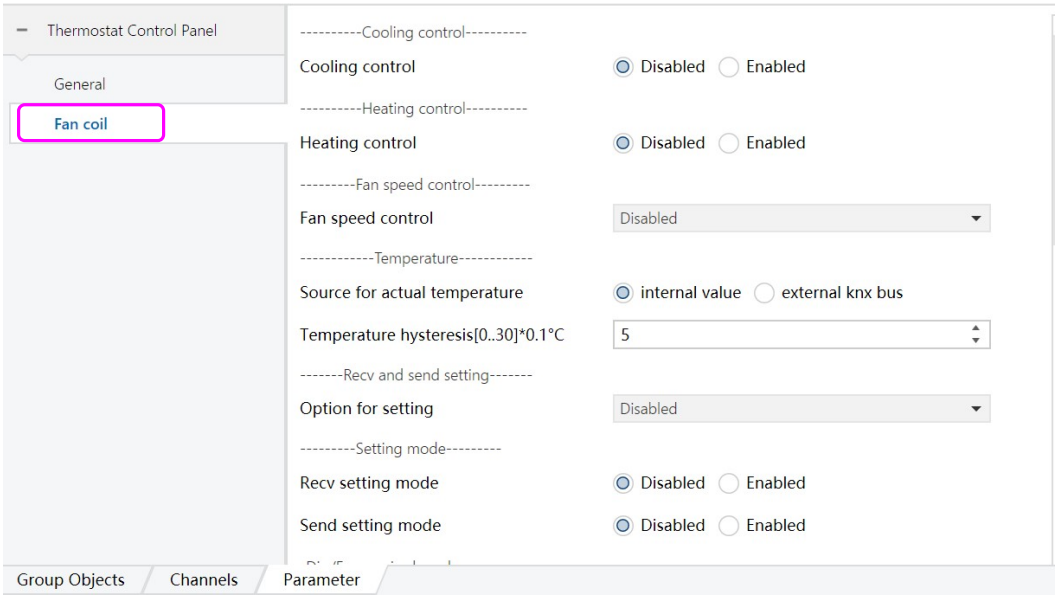


Figure 6.3.2

1) Cooling control;

Cooling control choose "Enabled", will show below parameter:

Cooling object type could choose 1bit/byte

Cooling control feedback, options: disabled, Enabled

2) Heating control;

Heating control choose "Enabled", will show below parameter:

Heating object type, optional 1 bit/byte

Heating control feedback, option: disabled, Enabled

3) Fan speed control;

Fan speed control, option: Disabled, 1bit, 1byte;

When 1bit is selected, the parameter Fan speed feedback appears, optionally disabled/Enabled;

When 1byte is selected, the parameter Value for fan speed 1 appears, and 0-255 can be filled in; Value for fan speed 2, and 0-255 can be filled in; Value for fan speed 3, and 0-255 can be filled in; Value for fan speed off means closed value will be sent

4) Temperature;

①Source for actual temperature, option: internal value, External KNX bus

②Temperature hysteresis[0..30]*0.1℃ Indicates temperature lag [0 . . 30] * 0.1℃, options: 0, 1, 2.....30;

Parameter	Description
Option for setting	Indicates setting selection, optional options: disabled; Read setting object at voltage recovery; Send setting as feedback when receiving setting
Recv setting mode	Indicates receive setting mode
Send setting mode	Indicates send setting mode
Heating mode	Indicates the heating mode, the options are: "Disabled", "Enabled"; when "Enabled" is selected, the parameter "Value for setting heating" sets the heating value, which can be filled in: 0, 1, 2...255;
Cooling mode	Indicates the cooling mode, the options are: "Disabled", "Enabled"; when "Enabled" is selected, the parameter "Value for setting heating" sets the cooling value, which can be filled in: 0, 1, 2...255;

Venting mode	Indicates the ventilation mode, the options are: "Disabled", "Enabled"; when "Enabled" is selected, the parameter "Value for setting heating" sets the value of ventilation, which can be filled in: 0, 1, 2...255;
Recv setting fan speed	Indicates receiving the set wind speed.
Send setting fan speed	Indicates sending the set wind speed.
Value for setting fan speed low	Indicates the value representing low fan speed, which can be filled in: 0, 1, 2...255;
Value for setting fan speed mid	Indicates the value representing the fan speed, which can be filled in: 0, 1, 2...255;
Value for setting fan speed high	Indicates the value representing high fan speed, which can be filled in: 0, 1, 2...255;
Value for setting fan speed off	Indicates the value representing the fan speed to be turned off, which can be filled in: 0, 1, 2...255;
Value for setting fan speed auto	Represents the value representing the natural fan speed, which can be filled in: 0, 1, 2...255;
Recv setting temperature	Indicates receiving the set temperature
Send setting temperature	Indicates sending set temperature setting feedback
Recv setting FCU switch	Indicates receiving the switch command of the fan coil unit
Send setting FCU switch	Indicates sending the switch command or switch status of the fan coil unit

6.4 Floor heating

Parameter Floor heating, options: Disabled, Enabled, select "Enabled" for the parameter, as shown in Figure 6.4.1, the options in the red box will appear.

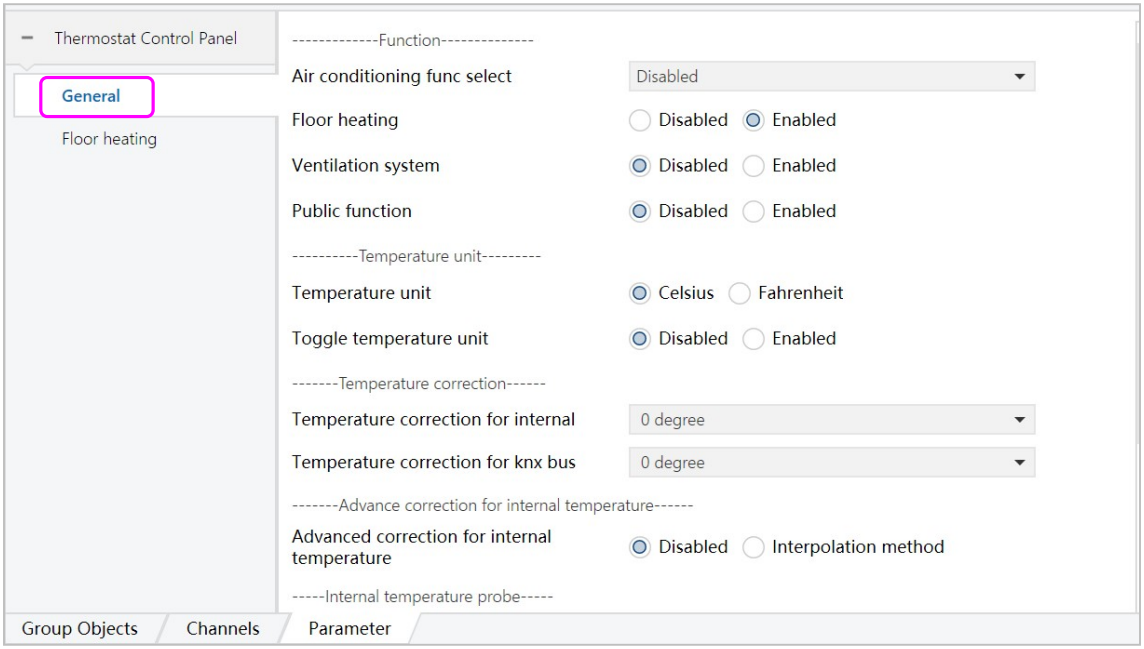


Figure 6.4.1

Click the option in the red box above to set the relevant parameters, as shown in Figure 6.4.2.

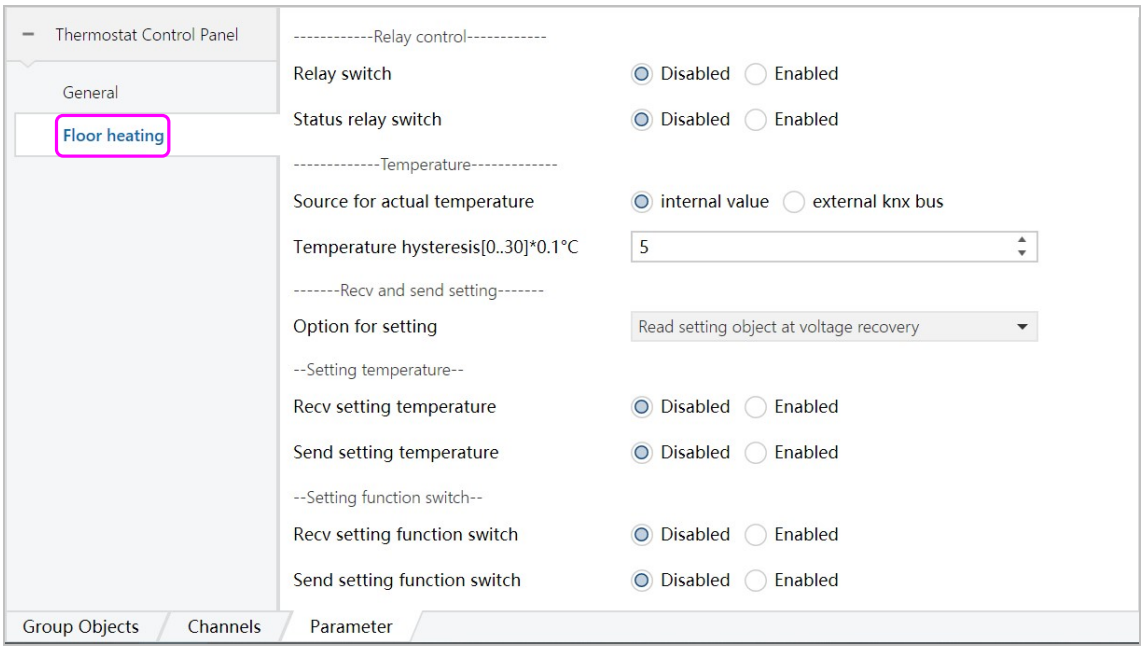


Figure 6.4.2.

1) Relay control;

Relay switch Indicates floor heating relay control output, options: Disabled, Enabled

Status relay switch indicates the status of the receiving floor heating relay. Options: Disabled, Enabled

2) Temperature indicates floor heating temperature control;

Source for actual temperature;

Optional options: internal value (internal detection of temperature control panel), external KNX bus (sent from KNX bus)

3) Recv and send setting

Parameter	Description
Option for setting	Indicates setting selection, optional options: disabled; Read setting object at voltage recovery); Send setting as feedback when receiving setting (when receiving a setting command sent by other devices, the object sending the setting will be used as a feedback object to determine whether the setting is successful).
Recv setting temperature	Indicates receiving the set temperature, options: Disabled, Enabled;
Send setting temperature	Indicates sending feedback of setting temperature setting, options: Disabled, Enabled;
Recv setting function switch	Indicates receiving the switch command of floor heating, optional options: Disabled, Enabled;
Send setting function switch	Indicates sending floor heating switch command or switch status, options: Disabled, Enabled;

4) High temperature alarm

Status high temperature alarm indicates high temperature alarm status feedback. When "Enabled" is selected, the following parameters appear:

Parameter	Description
Trigger temperature（degree）	Indicates the temperature that triggers the alarm, which can be filled in 5-45;
Send value for triggering alarm	Indicates sending trigger alarm value, optional "off", "on"
Cycle time for high temperature alarm	Indicates the time of high temperature alarm cycle, optional 1 second, 2 seconds...120minutes

6.5 Ventilation system

Ventilation system represents fresh air. The options are: Disabled, Enabled. When the parameter is selected as "Enabled", as shown in Figure 6.5.1, the options in the red box will appear.

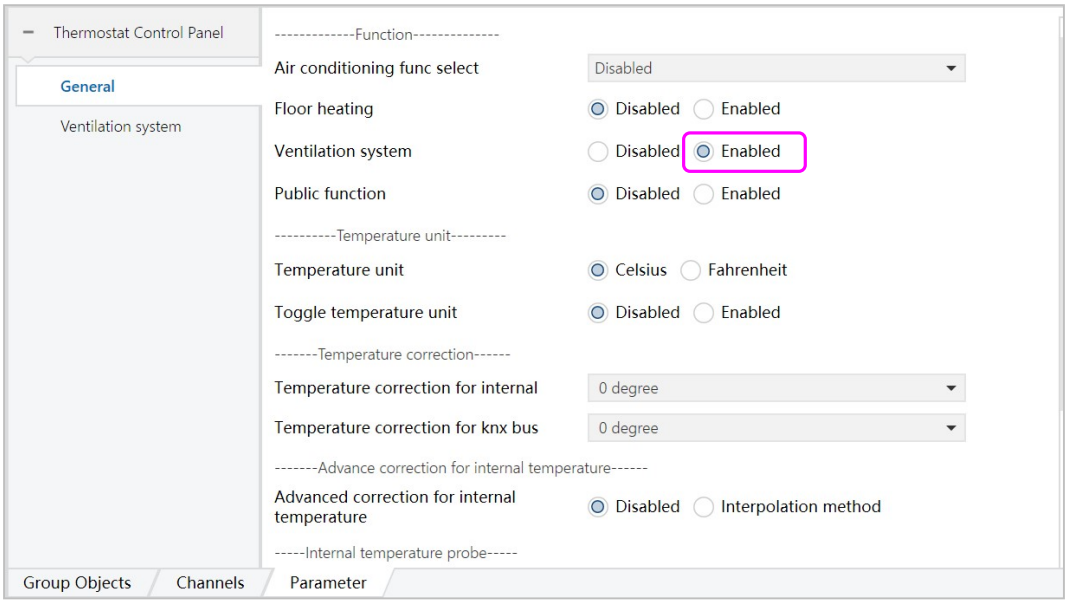


Figure 6.5.1

，Click the option in the red box above to set the relevant parameters, as shown in Figure 6.5.2.

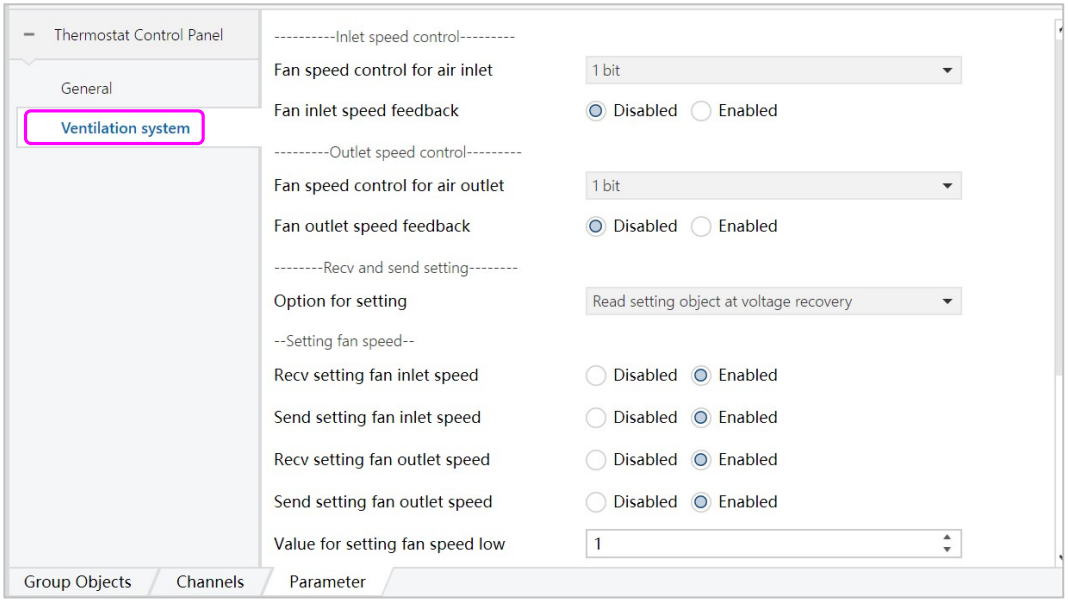


Figure 6.5.2

1) Inlet speed control;

Fan speed control for air inlet, options: disabled, 1bit, 1byte;

① When "1bit" is selected, the parameter "fan inlet speed feedback" appears, indicating the intake fan speed feedback, and "Disabled" or "Enabled)" can be selected;

②When "1byte" is selected, the following parameters appear:

Parameter	Description
Value for fan inlet speed 1	Indicates the intake fan speed value 1, can be filled in: 0-255
Value for fan inlet speed 2	Indicates the intake fan speed value 2, can be filled in: 0-255
Value for fan inlet speed 3	Indicates the intake fan speed value 3, can be filled in: 0-255
Value for fan inlet speed off	Indicates the intake fan shutdown value, which can be filled in: 0-255

When the parameter "fan inlet speed feedback" is selected as Enabled, the following parameters appear::

Parameter	Description
Value feedback for fan inlet speed 1	Intake fan speed feedback value 1, which can be filled in: 0-255
Value feedback for fan inlet speed 2	Intake fan speed feedback value 2, which can be filled in: 0-255
Value feedback for fan inlet speed 3	Intake fan speed feedback value 3, which can be filled in: 0-255
Value feedback for fan inlet speed off	Intake fan shutdown feedback value, which can be filled in: 0-255

2) Outlet speed control;

Fan speed control for air outlet fan speed control, options: disabled, 1bit, 1byte;

① When "1bit" is selected, the parameter "fan outlet speed feedback" appears, indicating the outlet fan speed feedback, and can be "Disabled" or "Enabled";

②When selecting "1byte", the following parameters appear:

Parameter	Description
Value for fan outlet speed 1	Outlet fan speed value 1, can be filled in: 0-255
Value for fan outlet speed 2	Outlet fan speed value 2, which can be filled in: 0-255
Value for fan outlet speed 3	Outlet fan speed value 3, can be filled in: 0-255
Value for fan outlet speed off	Exhaust fan shutdown value, which can be filled in: 0-255

When the parameter "fan inlet speed feedback" is selected as Enabled, the following parameters appear:

Parameter	Description
Value feedback for fan outlet speed 1	Outlet fan speed feedback value 1, which can be filled in: 0-255
Value feedback for fan outlet speed 2	Outlet fan speed feedback value 2, which can be filled in: 0-255
Value feedback for fan outlet speed 3	Outlet fan speed feedback value 3, which can be filled in: 0-255
Value feedback for fan outlet speed off	Exhaust fan shutdown feedback value, which can be filled in: 0-255

3) Recv and send setting;

Option for setting indicates setting selection, optional options: disabled, Read setting object at voltage recovery (automatically read the setting object when the voltage recovers), Send setting as feedback when receiving setting (when receiving the setting command sent by other devices, send The set object will be used as a feedback object for whether the setting is successful).

4) Setting fan speed;

Parameter	Description
Recv setting fan inlet speed	Indicates receiving the intake fan speed, selectable "Disabled" or "Enabled";

Send setting fan inlet speed	Indicates sending feedback for setting the intake fan speed setting, selectable "Disabled" or "Enabled";
Recv setting fan outlet speed	Indicates receiving the outlet fan speed, selectable "Disabled" or "Enabled";
Send setting fan outlet speed	Indicates sending feedback for setting the outlet fan speed setting, selectable "Disabled" or "Enabled";
Value for setting fan speed low	Indicates setting the fan low speed value, which can be filled in: 0-255;
Value for setting fan speed mid	Indicates setting the fan speed value, which can be filled in: 0-255;
Value for setting fan speed high	Indicates setting the fan speed value, which can be filled in: 0-255;
Value for setting fan speed off	Indicates setting the fan speed to turn off, which can be filled in: 0-255;
Value for setting fan speed auto	Indicates setting the fan speed automatically, which can be filled in: 0-255;

5) Setting function switch;

①Recv setting function switch means receiving the fresh air switch command, and can be selected as "Disabled" or "Enabled";

②Send setting function switch means sending the switch command or switch status of fresh air, optional "Disabled", "Enabled)"

6.6 Public function

The public function represents the public function of air conditioning, floor heating, and fresh air. The options are: Disabled, Enabled. When the parameter is "Enabled", as shown in Figure 6.6.1, the options in the red box will appear.

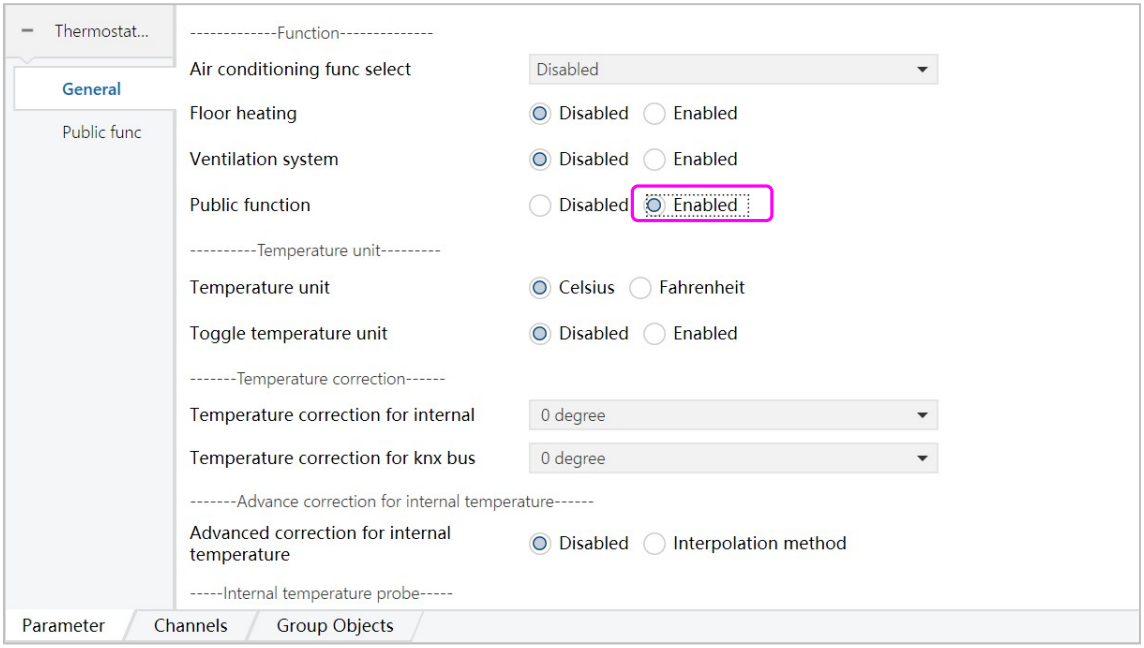
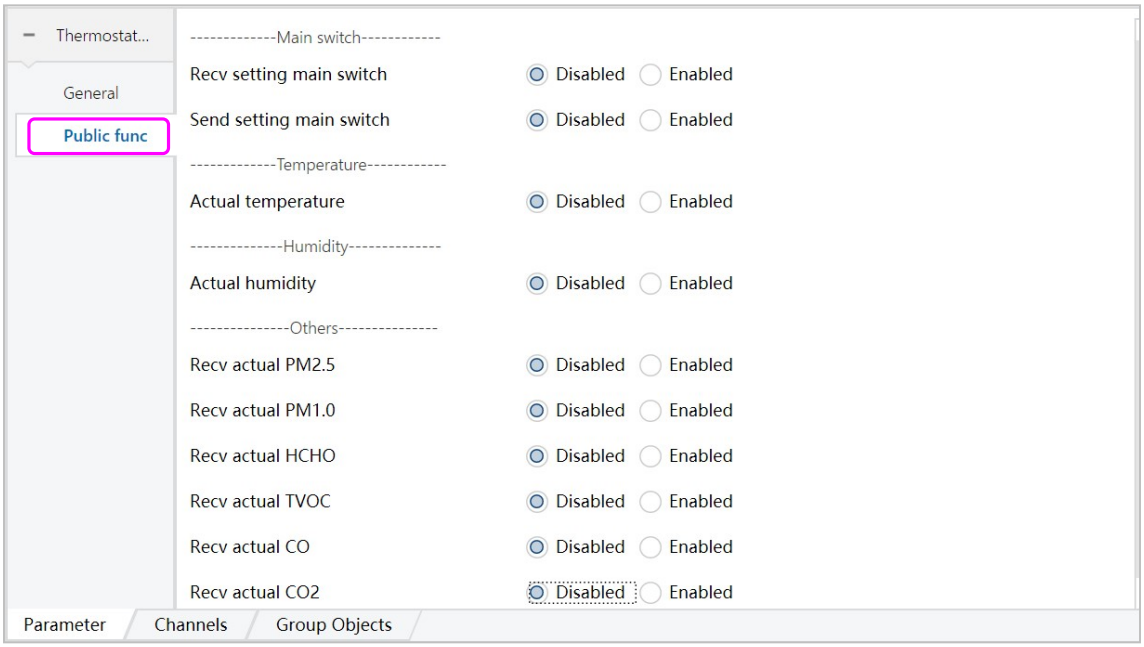


Figure 6.6.1

Click the option in the red box above to set the relevant parameters, as shown in Figure 6.6.2



Figur6.6.2

1) Main switch

① Recv setting main switch means receiving setting main switch, options: Disabled, Enabled

② Send setting main switch means send setting main switch, options: Disabled, Enabled

2) Temperature

Actual temperature represents the actual temperature. When "Enabled" is selected, the parameter "Source for actual temperature" appears to represent the source of the actual temperature. Optional: internal value (internal detection of the temperature control panel), external knx bus (sent by the KNX bus), when selected When internal value is used, the parameter "send actual temperature" appears to indicate sending the actual temperature. Options: Disabled, Enabled;

① When "Enabled" is selected, the parameter "the mode for sending value" appears to indicate the mode of sending values. The options are: transmit value in cycle, transmit value in the event of changes (send value when changes occur);

② When "transmit value in cycle" is selected, the parameter "the time in cycles" appears, with options of 1second, 2seconds...120minutes;

③When "transmit value in the event of changes" is selected, the parameter "send actual temperature on change (send actual temperature when the temperature changes the corresponding value)" appears, with options of 1degree, 2degree...10degree

3) Humidity

Actual humidity represents the actual humidity. When enabled is selected, the parameter "Source for actual humidity" appears to represent the source of the actual temperature. Optional: internal value (internal detection of the temperature control panel), external KNX bus (sent from the KNX bus);

When "Source for actual humidity" selects internal value, the parameter "send actual humidity" appears to indicate sending the actual humidity. The options are: Disabled, Enabled,

When "Enabled" is selected for "send actual humidity", the parameter "the mode for sending value" appears to indicate the mode of sending values. The options are: transmit value in cycle (send in cycle), transmit value in the event of changes (when changes occur) Send value):

① When "transmit value in cycle" is selected, the parameter "the time in cycles (cycle time)" appears, with options of 1second, 2seconds...120minutes;

② When "transmit value in the event of changes" is selected, the parameter "send actual humidity on change (send

actual humidity when the humidity changes the corresponding value)" appears, optional 1%, 2%...10%

4) Others

Recv actual PM2.5 means receiving actual PM2.5 data, optional options: Disabled (, Enabled;
Recv actual PM1.0 means receiving actual PM1.0 data, options: Disabled, Enabled;
Recv actual HCHO means receiving actual formaldehyde data, options: Disabled, Enabled;
Recv actual TVOC means receiving actual total volatile organic compound data, options: Disabled, Enabled;
Recv actual CO means receiving actual carbon monoxide data, options: Disabled, Enabled;
Recv actual CO2 means receiving actual carbon dioxide data, options: Disabled, Enabled;

7. Communication object description

The communication object is the medium through which the device communicates with other devices on the bus, that is, only the communication object can communicate on the bus. The following describes the role of each communication object in detail. There are 98 objects in the temperature control panel, as shown in Figure 7.1.1. The specific functions are shown in Table 1.1

Note: "C" in the attribute column of the table below represents that the communication function of the communication object is enabled, "W" represents that the value of the communication object can be rewritten through the bus, "R" represents that the value of the communication object can be read through the bus, " T" means that the communication object has the transmission function, and "U" means that the value of the communication object can be updated.

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
0	AC, Switch	On/Off-Output			1 bit	C	R	-	T	U	switch	Low
1	AC, Feedback, switch	On/Off-Input			1 bit	C	R	W	T	U	switch	Low
2	AC, Operating mode	8-bit Value-Output			1 byte	C	R	-	T	U	HVAC control mode	Low
3	AC, Feedback,Operating mode	8-bit Value-Input			1 byte	C	R	W	T	U	HVAC control mode	Low
4	AC, Fan speed	8-bit Value-Output			1 byte	C	R	-	T	U	percentage (0..100%)	Low
5	AC, Feedback, Status fan speed	8-bit Value-Input			1 byte	C	R	W	T	U	counter pulses (0..2...	Low
6	AC, Setting temperature	16-bit Value-Outp...			2 bytes	C	R	-	T	U	temperature (°C)	Low
7	AC, Feedback, Setting temperature	16-bit Value-Input			2 bytes	C	R	W	T	U	temperature (°C)	Low
8	AC, Actual temperature	16-bit Value-Input			2 bytes	C	R	W	T	U	temperature (°C)	Low
36	FH, Relay switch	On/Off-Output			1 bit	C	R	-	T	U	switch	Low
37	FH, Status relay switch	On/Off-Input			1 bit	C	R	W	T	U	switch	Low
38	FH, Actual temperature	16-bit Value-Input			2 bytes	C	R	W	T	U	temperature (°C)	Low
41	FH, Recv setting temperature	16-bit Value-Input			2 bytes	C	R	W	T	U	temperature (°C)	Low
42	FH, Send setting temperature	16-bit Value-Outp...			2 bytes	C	R	-	T	U	temperature (°C)	Low
43	FH, Recv setting switch	On/Off-Input			1 bit	C	R	W	T	U	switch	Low
44	FH, Send setting switch	On/Off-Output			1 bit	C	R	-	T	U	switch	Low
51	FH, High temperature alarm	On/Off-Output			1 bit	C	R	-	T	U	switch	Low
52	FA, Air inlet speed 1	On/Off-Output			1 bit	C	R	-	T	U	switch	Low
53	FA, Air inlet speed 2	On/Off-Output			1 bit	C	R	-	T	U	switch	Low
54	FA, Air inlet speed 3	On/Off-Output			1 bit	C	R	-	T	U	switch	Low
55	FA, Status air inlet speed 1	On/Off-Input			1 bit	C	R	W	T	U	switch	Low
56	FA, Status air inlet speed 2	On/Off-Input			1 bit	C	R	W	T	U	switch	Low

Parameter | Channels | Group Objects

Figure 7.1.1

No.	Name	Communication object	Data type	Attribute
0	AC, Switch	On/Off-Output	1 bit	C,R, T,U
This communication object is enabled when the parameter "Switching func." selects "Enable". This communication object is used to control the switch of the air-conditioning gateway. When the communication object sends the value "1/0", the air-conditioning gateway will perform the preset " On/off" operation.				
1	AC, Feedback, switch	On/Off-Input	1 bit	C,R,W,T,U
This communication object is enabled when the parameter "Switching func." is selected as "Enable". This communication object is used to feedback the switch status of the air conditioning gateway, bind the feedback object, and use the received feedback status to control the indication status of the temperature control panel. When				

the communication object receives the value "0/1", the temperature control panel displays "ON/OFF"。				
2	AC, Operating mode	8-bit Value-Output	1byte	C,R ,T,U
This communication object is enabled when the parameter "Operating mode" selects "Enable". This communication object is used to switch the operating mode. The communication object sends a preset value to switch the operating mode of the air conditioning gateway (heating mode, cooling mode, Air supply mode, dehumidification mode, automatic mode).				
3	AC， Feedback, Operating mode	8-bit Value-Input	1byte	C,R,W,T,U
This communication object is enabled when the parameter "Operating mode" selects "Enable". This communication object is used to feedback the operating mode, bind the feedback object, and use the received feedback value to change the operating mode indication of the temperature control panel. When the communication object receives the corresponding value, the temperature control panel indicates the corresponding operating mode.				
4	AC,Fan speed	8-bit Value-Output	1byte	C,R, T,U
This communication object is enabled when the parameter "Fan speed" selects "Enable". This communication object is used to control the wind speed of the air conditioner. The communication object sends a preset value to control the wind speed of the air conditioner.				
5	AC, Feedback, Status fan speed	8-bit Value-Input	1byte	C,R,W,T,U
This communication object is enabled when the parameter "Fan speed" selects "Enable". This communication object is used to feedback the air conditioner wind speed. Bind the feedback object and use the received feedback value to change the air conditioner wind speed indication on the temperature control panel. The communication object receives When the corresponding value is reached, the temperature control panel indicates the corresponding air conditioner wind speed.				
6	AC, Setting temperature	16-bit Value-Output	2 bytes	C,R, T,U
This communication object is enabled when the parameter "Setting temperature" is selected as "Enabled". This communication object is used to control the air conditioning temperature. The communication object sends a temperature value to control the temperature of the air conditioning gateway. The temperature can be set in the range of 16℃~30℃				
7	AC, Feedback, Setting temperature	16-bit Value-Input	2 bytes	C,R,W,T,U
This communication object is enabled when the parameter "Setting temperature" is selected as "Enabled". This communication object is used to feedback the current air conditioning temperature value, bind the feedback object,				

and use the received feedback value to change the air conditioning temperature indication on the temperature control panel. Communication When the object receives the corresponding value, the temperature control panel indicates the corresponding temperature value.				
8	AC, Actual temperature	16-bit Value-Input	2 bytes	C,R,W,T,U
This communication object is started when the parameter "Source for actual temperature" selects "external knx bus". This communication object is used for the actual temperature value of the external sensor.				
11	FCU, Cooling control	On/Off-Output	1 bit	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Cooling control" and "1 bit" is selected in the "cooling object type". This communication object is used for cooling control of the fan coil, and the data length is 1 bit.				
12	FCU, Cooling feedback	On/Off-Input	1bit	C,R, W,T,U
This communication object is started when "1 bit" is selected in the parameter "Cooling object type" and "Enabled" is selected in "Cooling control feedback". This object is used for feedback of fan coil cooling control (data length is 1 bit).				
13	FCU, Cooling control	Valve position-Output	1 byte	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Cooling control" and "1 byte" is selected in the "cooling object type". This communication object is used to send the cooling valve value of the fan coil, and the data length is 1 byte.				
14	FCU, Cooling feedback	Valve position-Input	1 byte	C,R, W,T,U
This communication object is started when "1 byte" is selected in the parameter "Cooling object type" and "Enabled" is selected in "Cooling control feedback". This object is used to receive feedback from the fan coil cooling valve value (the data length is 1 byte。				
15	FCU, Heating control	On/Off-Output	1bit	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Heating control" and "1bit" is selected in the "Heating object type". This communication object is used for heating control of the fan coil, and the data length is 1bit.				
16	FCU, Heating feedback	On/Off-Input	1bit	C,R, W,T,U
This communication object is started when "1bit" is selected in the parameter "Heating object type" and "Enabled" is selected in "Heating control feedback". This object is used for feedback of fan coil heating control (data length is 1bit).				

17	FCU, Heating control	Valve position-Output	1byte	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Heating control" and "1byte" is selected in the "Heating object type". This communication object is used to send the heating valve value of the fan coil, and the data length is 1byte.				
18	FCU, Heating feedback	Valve position-Input	1byte	C,R, W,T,U
This communication object is started when "1byte" is selected in the parameter "Heating object type" and "Enabled" is selected in "Heating control feedback". This object is used to receive feedback from the fan coil heating valve value (data length is 1byte)				
19,20,21	FCU, Fan speed1/2/3	On/Off-Output	1bit	C,R, T,U
This communication object is started when "1bit" is selected in the parameter "Fan speed control". This communication object is used for fan coil wind speed control (data length is 1 bit); when the fan coil speed is low, FCU, Fan speed 1 The object sends the value 01, the FCU, Fan speed 2 and FCU, Fan speed 3 objects send the value 00; when the fan coil is at wind speed, the FCU, Fan speed 2 object sends the value 01, the FCU, Fan speed1 and FCU, Fan speed 3 objects send the value 00; when the fan coil speed is high, the FCU, Fan speed3 object sends the value 01, and the FCU, Fan speed1 and FCU, Fan speed 2 objects send the value 00;				
22,23,24	FCU, statu fan speed1/2/3	On/Off-Input	1bit	C,R, W,T,U
This communication object is started when "1bit" is selected in the parameter "Fan speed control" and "Enabled" is selected in "Fan speed feedback". This communication is used for fan coil wind speed status feedback (data length is 1bit).				
25	FCU，Fan speed	8-bit Value-Output	1byte	C,R, T,U
This communication object is started when "1byte" is selected in the parameter "Fan speed control". This communication object is used to send the fan coil wind speed valve value (data length is 1byte).				
26	FCU, Status fan speed	8-bit value-Input	1byte	C,R, W,T,U
This communication object is started when "1byte" is selected in the parameter "Fan speed control" and "Enabled" is selected in "Fan speed feedback". This communication is used for fan coil wind speed valve value status feedback (data length is 1byte).				
27	FCU, Actual temperature	16-bit Value-Input	2bytes	C,R, W,T,U
This communication object is started when "external knx bus" is selected in the parameter "Source for actual temperature". This communication object is used to transmit the actual temperature value of the fan coil unit.				
28	FCU, Recv setting mode	8-bit Value-Input	1byte	C,R, W,T,U

This communication object is started when "Enabled" is selected in the parameter "Recv setting mode". This communication object is used to receive the fan coil setting mode.				
29	FCU, Send setting mode	8-bit Value-Output	1byte	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send setting mode". This communication object is used to send the fan coil setting mode.				
30	FCU, Recv setting speed	8-bit Value-Input	1byte	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Recv setting fan speed". This communication object is used to receive the set wind speed value.				
31	FCU, Send setting speed	8-bit Value-Output	1byte	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send setting fan speed". This communication object is used to send the set wind speed value.				
32	FCU, Recv setting temperature	16-bit Value-Input	2 bytes	C,R, W,T,U
该通讯对象是在参数“Recv setting temperature”中选择“Enabled”时被启动的，此通讯对象用于接收设置风机盘管温度值，温控面板根据接收的数值指示当前风机盘管温度值。				
33	FCU, Send setting temperature	16-bit Value-Output	2 bytes	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send setting temperature". This communication object is used to send the set temperature value. The communication object controls the temperature of the fan coil through the corresponding value sent;				
34	FCU, Recv setting switch	On/Off-Input	1bit	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Recv setting FCU switch". This communication object is used to receive fan coil switch commands. When the value "00" is received, it means that the fan coil is turned off; When the value is "01", it means that the fan coil is on; the temperature control panel indicates the current fan coil switch status according to the received value.				
35	FCU, Send setting switch	On/Off-Output	1bit	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send setting FCU switch". This communication object is used to send fan coil switch commands. When sending the value "00", the fan coil is controlled to turn off; sending the value " 01", the fan coil is controlled to be turned on; the communication object controls the on/off status of the fan coil by sending corresponding values.				
36	FH, Relay switch	On/Off-Output	1bit	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Relay switch" in Floor heating.				

This communication object is used for floor heating relay control output. When the value "00" is sent, the floor heating is turned off; when the value "01" is sent, floor heating is on;				
37	FH, Status relay switch	On/Off-Input	1bit	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Status relay switch" in Floor heating. This communication object is used to feedback the control output status of the floor heating relay. When the communication object receives the value "00", it indicates the floor heating relay. Off state; when receiving the value "01", it indicates that the floor heating relay is on;				
38	FH, Atual temperature	16-bit Value Input	2bytes	C,R, W,T,U
This communication object is started when "External knx bus" is selected in the parameter "Source for actual temperature" in Floor heating. This communication object is used to transmit the actual temperature value of floor heating.				
41	FH,Recv setting temperature	16-bit Value-Input	2 bytes	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Recv setting temperature" in Floor heating. This communication object is used to receive the set floor heating temperature value. The temperature control panel indicates the current floor heating temperature value according to the received value.				
42	FH，Send setting temperature	16-bit Value-Output	2 bytes	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send setting temperature" in Floor heating. This communication object is used to send the set floor heating temperature value. The communication object controls the temperature of the floor heating through the corresponding value sent.				
43	FH，Recv setting switch	On/Off-Input	1 bit	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Recv setting function switch". This communication object is used to receive the floor heating switch command. When the value "00" is received, it means that the floor heating is turned off; when the value "01" is received , it means that the floor heating is on; the temperature control panel indicates the current on/off status of the floor heating according to the received value.				
44	FH，Send setting switch	On/Off-Output	1bit	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send setting function switch". This communication object is used to send floor heating switch commands. When the value "00" is sent, the floor heating is controlled to turn off; when the value "01" is sent, Control the opening of floor heating; the communication object controls the on/off state of floor heating by sending corresponding values.				
51	FH, High temperature alarm	On/off-output	1bit	C,R, T,U

This communication object is started when "Enabled" is selected in the parameter "Status high temperature alarm". This communication object is used to send high temperature alarm status feedback. When the floor heating exceeds the preset temperature warning value, the communication object sends the alarm value "01/00".				
52，53，54	FA, Air inlet speed1/2/3	On/off-output	1bit	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Ventilation system" and "1 bit" is selected in "Fan speed control for air inlet". This communication object is used for air inlet fan speed control (data length is 1 bit); when the fresh air speed is low, the FA, Air inlet speed1 object sends the value 01, and the FA, Air inlet speed 2 and FA, Air inlet speed3 objects send the value 00; when the fresh air speed is moderate, the FA, Air inlet speed 2 object sends the value 01, FA, Air inlet speed 1 and FA, Air inlet speed3 objects send the value 00; when the fresh wind speed is high, the FA, Air inlet speed3 object sends the value 01, FA, Air inlet speed1 and FA, Air inlet speed 2 objects send the value 00.				
55，56，57	FA, Status air inlet speed 1/2/3	On/off-Input	1bit	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Fan inlet speed feedback". This communication is used for fresh air inlet speed and speed status feedback (data length is 1 bit).				
58	FA，Air inlet speed	8-bit Value-Output	1byte	C,R, T,U
This communication object is started when "1 byte" is selected in the parameter "Fan speed control for air inlet". This communication object is used for air inlet fan speed value control (data length is 1 byte).				
59	FA, Status air inlet speed	8-bit Value-Input	1byte	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Fan inlet speed feedback". This communication object is used for fresh air inlet speed value status feedback (data length is 1byte).				
60,61,62	FA,Air outlet speed1/2/3	On/Off-Output	1bit	C,R, T,U
This communication object is enabled when "1bit" is selected in the parameter "Fan speed control for air outlet". This communication object is used for air outlet fan speed control (data length is 1bit); when the fresh air speed is low, FA, Air outlet The speed1 object sends the value 01, FA, Air outlet speed 2 and FA, Air outlet speed3 objects send the value 00; when the fresh air is moderate speed, the FA, Air outlet speed 2 object sends the value 01, FA, Air outlet speed 1 and FA, Air The outlet speed3 object sends the value 00; when the fresh air speed is high, the FA, Air outlet speed3 object sends the value 01, and the FA, Air outlet speed1 and FA, Air outlet speed 2 objects send the value 00.				
63，64，65	FA, Status air outlet speed1/2/3	On/Off-Input	1bit	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Fan outlet speed feedback". This				

communication is used for fresh air outlet speed and speed status feedback (data length is 1 bit).				
66	FA, Air outlet speed	8-bit Value-Output	1byte	C,R, T,U
This communication object is enabled when "1byte" is selected in the parameter "Fan speed control for air outlet". This communication object is used for air outlet fan speed value control (data length is 1byte).				
67	FA, Status air outlet speed	8-bit Value-Input	1byte	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Fan outlet speed feedback". This communication object is used for fresh air outlet wind speed value status feedback (data length is 1byte).				
70	FA，Recv setting inlet speed	8-bit Value-Input	1byte	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Recv setting fan inlet speed" of the Ventilation system. This communication object is used to receive the intake fan speed value.				
71	FA, Send setting inlet speed	8-bit Value-Output	1byte	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send setting fan inlet speed" of the Ventilation system. This communication object is used to send the feedback value for setting the intake fan speed setting.				
72	FA, Recv setting outlet speed	8-bit Value-Input	1byte	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Recv setting fan outlet speed" of the Ventilation system. This communication object is used to receive the outlet fan speed.				
73	FA, Send setting outlet speed	8-bit Value-Output	1byte	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send setting fan outlet speed" of the Ventilation system. This communication object is used to send feedback on setting the outlet fan speed setting.				
74	FA,Recv setting switch	On/OFF-Input	1bit	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Recv setting function switch" of the Ventilation system. This communication object is used to receive the fresh air switch command. When the value "00" is received, it means that the fresh air is turned off; When the value is "01", it means that the fresh air is on; the temperature control panel indicates the current on/off status of the fresh air according to the received value.				
75	FA, Send setting switch	On/OFF-Output	1bit	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send setting function switch" of the Ventilation system. This communication object is used to send the fresh air switch command or switch status. When the value "00" is sent, the fresh air is controlled to be turned off; when the value "01" is sent, the fresh air is controlled to be turned on; the communication object controls the on/off state of the fresh air by sending the				

corresponding value.				
76	Pub, Recv main switch	On/OFF-Input	1bit	C,R, W,T,U
This communication object is activated when "Enabled" is selected in the parameter "Public function". This communication object is used for public function switch settings of air conditioning, floor heating, and fresh air. When the value "00" is sent, all functions are controlled to be turned off; sending the value When "01", all functions of the control are turned on; the communication object controls the state of the main switch by sending corresponding values.				
78	Pub, Switch temperature unit	1-bit Value-Input	1bit	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "Toggle temperature unit". This communication object is used to switch the unit of temperature. The communication object switches between Celsius and Fahrenheit temperature units by sending the value "0/1".				
79	Pub, Status temperature unit	1-bit Value-Output	1bit	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send toggle temperature unit". This communication object is used to transmit the switching feedback value of the temperature unit.				
80	Pub, Child lock	1-bit Value-Input	1 bit	C,R, W,T,U
This communication object is started when "Enabled" is selected in the parameter "child lock control". This communication object is used to control the status of the child lock. The communication object turns on/off the child lock by sending the value "0/1".				
81	Pub, Status child lock	1-bit Value-Output	1bit	C,R, T,U
This communication object is started when "Enabled" is selected in the parameter "Send child lock control". This communication object is used for status feedback of the child lock.				
82	Pub, Recv actual temperature	16-bit Value-Input	2bytes	C,R, W,T,U
This communication object is started when "external knx bus" is selected in "Source for actual temperature" in the parameter "Public func". This communication object is used to transmit the actual temperature value of the total function through the knx bus.				
83	Pub, Send actual temperature	16-bit Value-Output	2bytes	C,R, T,U
This communication object is started when "internal value" is selected in the "Source for actual temperature" in the parameter "Public func". This communication object is used to internally detect the actual temperature value of the total function.				
84	Pub, Recv actual humidity	16-bit Value-Input	2bytes	C,R, W,T,U

This communication object is started when "Actual humidity" in the parameter "Public func" selects "Enabled" and "Source for actual humidity" selects "external knx bus". This communication object is used to transmit the total function through the knx bus. Actual humidity value.				
85	Pub, Send actual humidity	16-bit Value-Output	2bytes	C,R, T,U
This communication object is started when the "Actual humidity" in the parameter "Public func" selects "Enabled" and the "Source for actual humidity" selects "internal value". This communication object is used to internally detect the actual humidity value of the total function.				
86	Pub, Recv actual PM2.5	16-bit Value-Input	2bytes	C,R, W,T,U
This communication object is started when "Enabled" is selected in Recv actual PM2.5 in the parameter "Public func". This communication object is used to receive actual PM2.5 data.				
87	Pub, Recv actual PM1.0	16-bit Value-Input	2bytes	C,R, W,T,U
This communication object is started when "Enabled" is selected in Recv actual PM1.0 in the parameter "Public func". This communication object is used to receive actual PM1.0 data.				
88	Pub, Recv actual HCHO	16-bit Value-Input	2bytes	C,R, W,T,U
This communication object is started when "Enabled" is selected in Recv actual HCHO in the parameter "Public func". This communication object is used to receive actual formaldehyde data.				
89	Pub, Recv actual TVOC	16-bit Value-Input	2bytes	C,R, W,T,U
This communication object is started when "Enabled" is selected in Recv actual TVOC in the parameter "Public func". This communication object is used to receive actual total volatile organic compounds data.				
90	Pub, Recv actual CO	16-bit Value-Input	2bytes	C,R, W,T,U
This communication object is started when "Enabled" is selected in Recv actual CO in the parameter "Public func". This communication object is used to receive actual carbon monoxide data.				
91	Pub, Recv actual CO2	16-bit Value-Input	2bytes	C,R, W,T,U
This communication object is started when "Enabled" is selected in Recv actual CO2 in the parameter "Public func". This communication object is used to receive actual carbon dioxide data.。				
92	Overwrite brightness, Backlight	8-bit Value	1byte	C,R, W,T,U
This communication object is started when "always" is selected in the parameter "Backlight mode" and "Yes" is selected in "Overwrite backlight brightness via object". This communication object is used to overwrite the backlight brightness.				
93	Overwrite brightness，Waking	8-bit Value	1byte	C,R, W,T,U

	backlight			
This communication object is started when "delay" is selected in the parameter "Backlight mode" and "Yes" is selected in "Overwrite backlight waking light via object". This communication object is used to rewrite the brightness value when waking up the backlight.				
94	Overwrite brightness, Sleeping backlight 8-bit Value	8-bit Value	1byte	C,R, W,T,U
This communication object is started when "delay" is selected in the parameter "Backlight mode" and "Yes" is selected in "Overwrite sleeping backlight via object". This communication object is used to overwrite the backlight brightness in the sleep state.				
95	Input from master, Control own backlight	On/Off	1bit	C,R, W,T,U
This communication object is started when "delay" is selected in the parameter "Backlight mode" and "delay according to master device" is selected in the "Delay time after waking backlight". This communication object is used to delay according to the switch signal sent by the master device. Closing time.				
96	Master output, Control other's backlight	On/Off	1bit	C,R, W,T,U
This parameter object is activated when the parameter "Backlight settings" selects "Enabled" and the parameter "Master output for controlling other's backlight" selects "Yes". This communication object is used for the main output to control other backlights.				
97	Input-triggering, Waking backlight	On/Off	1bit	C,R, W,T,U
This parameter object is activated when the parameter "Backlight settings" selects "Enabled" and the parameter "Wake up backlight via object" selects "Yes". This communication object is used to wake up the backlight through the object.				
98	Triggering output, Waking backlight	On/Off	1bit	C,R, W,T,U
This parameter object is started when the parameter "Backlight settings" selects "Enabled" and the parameter "Output triggering signal for waking backlight" selects "Yes". This communication object is used to wake up the backlight output trigger signal.				

Table 1.1

8. Safe use and maintenance

(1) Read all instructions carefully before use.

(2) Establish a good ventilation environment.

(3) During use, pay attention to moisture-proof, shock-proof, and dust-proof.

(4) It is strictly prohibited to be exposed to rain, contact with other liquids or corrosive gases.

(5) If it gets damp or invaded by liquid, it should be dried in time.

(6) When the machine fails, please contact professional maintenance personnel or our company.

9. Contact information

(1) Address: 903, Building 5, , Nanxiang 1st Road, Huangpu District, Guangzhou City, Guangdong Province

(2) Tel: +86-20-82189121

(3) Fax: +86-20-82189121

(4) Website: http://www.seawin-knx.com