

Smart Touch Screen Panel

Manual -Ver2.1

TS0401



2022-10-26 16:1 My Room	6 Wednesday	¢	
Temperature	 PM2.5 59 ug/m³ CO2 210 ppm 	 HCHO 0.05 mg/m³ TVOC 0.4 mg/m³ 	
- Š			



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1.Overview

This manual provides you with detailed technical information on the smart touch screen panel, including installation and programming details, and explains how to use the smart touch screen panel based on examples of practical use. The smart touch screen panel can be mounted in a standard 86 bottom box for easy installation and removal. Smart touch screen panel compared to the ordinary button panel, it can display the screen through the LCD, send a beep, set several functions in one and through the human-computer interaction interface can be very convenient, very clear operation.

Installed as a system together with other loads via EIB/ KNX bus.

Using the engineering design tool software ETS to set up and operate the entire system.

2. Product and Function Overview

2.1 Product Description

Smart touch screen panel is mainly used in building and home control system, installed as a system together with other devices on the bus. And the functions are simple and intuitive to operate, users can plan and systematically execute these functions according to their needs.

Smart touch screen panel with 11 normal functions and 8 general functions, each with 16 channels, and can be used to control switches, curtains, dimming, scenes, air conditioner, HVAC, fresh air, floor heating, background music and display air quality data, power parameter data, etc.

Smart touch screen Panel is a standard 86 bottom box mounting device. It is connected to the EIB / KNX system via the EIB bus and uses the engineering tool ETS software (version ETS4 or higher) for the assignment of physical and group addresses and the setting of parameters

The smart touch screen panel is connected directly to the bus via terminal blocks and requires 24 V DC auxiliary power.

2.2 Function Overview

Product name	Product type	Function description	
		(1) 4.0-inch color TFT, Resolution 720x720, Capacitive touch screen;	
		(2) Home page navigation, quickly link to sub-functions based on navigation	
		pages;	
		(3) With on/off, dimming, curtain, scene and value sending functions;	
		(4) RGB,RGBW dimming control and color temperature adjustment control;	
		(5) Air conditioner function control, includes split and air conditioner gateway	
		types;	
		(6) HVAC functional control, Including fan coil control;	
Touch Screen Panel	TS0401	(7) Floor heating control, Including timing strategy control for floor heating;	
		(8) Fresh air system control, the control strategy of fresh air can be set	
		according to the indoor air quality level;	
		(9) Background music control;	
		(10) Air quality data show, including AQI,PM2.5, PM10, HCHO, TVOC,	
		CO2,etc. ;	
		(11) Energy test data show, Including current, voltage, power, power factor,	
		electrical energy, etc.;	
		(12) 16 timer function, realize various daily timing operations;	



	(13) 8 scenes module function, Flexible to achieve a variety of scene control;
	(14) Time and date display;
	(15) Screen brightness adjustment;
	(16) Temperature, humidity and air quality display;
	(17) With secret and screen saver, optional clock for screensavers.

3.Detailed Parameters

Bus voltage	21-30V DC, power from KNX bus
Auxiliary power supply voltage	24 V DC
Bus current	< 12 mA
Auxiliary current	< 60mA
Bus power	< 360mW
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)	86X86X29 mm
Weight (approx.)	Approx 150g
Installation method	86 bottom box

4. Dimensional Drawing and Exemplary Circuit Diagram

4.1 Dimension Drawing



Dimensional drawing



4.2 Exemplary Circuit Diagram



Exemplary circuit diagram

5. Installation Instructions

5.1 Product Installation Instructions

(1) Take off the iron piece embedded in the back cover of the smart touch screen panel and install it on the standard 86 bottom box, tighten the fixing screws;

(2) Align the smart touch screen panel to adsorb on the fixed iron sheet;

(3) The smart touch screen panel is a magnetically fixed product. To remove the product, please gently pry from the recessed area under the panel.

The installation process





6. Parameter Setting

6.1 Basic settings

The following is an example of setting parameters in ETS5.

Open the smart touch sceen Panel parameter setting interface in ETS5, as shown in Figure 6.1.1.

- Basic settings	Panel language	English Chinese
Basic setting	The UI style for panel	Sytle 1 Sytle 2
Channel setting	Setting for date and time	Disabled Enabled
+ Main page	The latitude and longitude of your current position	Disabled Enabled
+ General functions	Display brightness[0100]%	0
	Overwrite display brightness via object	O No 🔵 Yes
+ RGB dimming	Return to the home page	Disabled Enabled
+ Air conditioner	Screen saver function	Disabled Enabled
+ Floor heating	Turn off backlight	Disabled Enabled
+ Ventilation system	Password protection	O Disabled
+ HVAC function	Blocking function	Disabled Enabled
+ Background music	Device status	Disabled Enabled
参数 频道 组对象	▼	

Figure 6.1.1

(1) Click on the option in the red box above to set the relevant parameters, as shown in Figure 6.1.1.

Parameter	Description		
Panel language	Panel language, options: English, Chinese		
UI style for panel	UI style for panel, options: Sytle 1, Sytle 2		
Setting for date and time	Setting for date and time, options: Enabled, Disabled. When "Enabled" is selected, the following two parameters will appear: ① "Overwrite date and time via object", option No, Yes: ② "Send date and time to bus" options: No, Yes. When "yes" is selected parameter "Cycle time for sending" can be set to: 1 seconds, 2 seconds120minutes		
The latitude and longitude of your current position	Not yet activated		
Display brightness[0100]%	Display brightness, options: 0%,1%,2%100%。		
Overwrite display brightness via object	Overwrite display brightness via object, options: Enabled, Disabled		
Return to the home page Return to the home page, options: Enabled, Disabled. When "Enabled" is selected to return after no operation" can be set to: 1 seconds , 2 seconds 120 minur			
Screen saver function	Screen saver function, options: Enabled, Disabled. When "Enabled" is selected, the		



	following four parameters will appear: ① "Screen saver", options: Clock, Album; (Note		
	Album function is not yet activated) ② "Brightness for screen saver [0"		
	saver" can be set to: 0%, 1%, 2% 100%; ③ "Time to enter the screensaver aft		
	operation [0 65535]s" can be set to: 0, 1, 265535; ④" Enter screensaver		
	object" can be set to: No, Yes. When "yes" is selected, parameter "Activate value"		
	appear, options: On is activation, Off is activation		
Turp off backlight	Turn off backlight, options: Enabled, Disabled. When "Enabled" is selected, "Time to turn		
	off backlight[065535]s" can be set to: 0,1,265535.		
Turn off backlight via	Turn off backlight via object, options: No, Yes. When "yes" is selected, parameter		
object	"Activate value" will appear, options: On is activation, Off is activation.		
	Password protection, options: Enabled, Disabled, When "Enabled" is selected, the		
	following four parameters will appear: ① "Password(number only, four Numbers)"; ②		
Password protection	"Enter password protection via object", options: No, Yes. When "yes" is selected,		
	parameter "Activate value" will appear, options: On is activation, Off is activation.		
	Blocking function, options: Enabled, Disabled, When "Enabled" is selected, the following		
	two parameters will appear: ① "Blocking function" options: blocking = 1 unblocking		
Blocking function	=0 blocking = 0 unblocking = 1: \bigcirc "Blocking value after voltage recovery" options:		
	unblocking blocking as before voltage failure		
	Device status, ontions: Enabled Disabled When "Enabled" is selected the following		
Dovico status	parameter will appear: "Cycle time for conding." can be set to: 1 seconds. 2 seconds		
Device status	120 minutos		
	120 minutes.		
Temperature unit display	Temperature unit display, options: Celsius(°C), Fahrenheit(°F)		
The source of temperature display	Display the source of temperature, options: Internal sensor, External sensor. (1) When "Internal sensor" is selected, the following parameters will appear: ① "Internal temperature Calibration [-100100]*0.1°C" can be set to: -100, -101,-102100; ② "Overwrite temperature Calibration via object", options: No, Yes; ③ "Send internal temperature", options: No, yes. When "yes" is selected, the following parameter will appear: "Cycle time for sending temperature" can be set to: 1 seconds, 2 seconds 120 minutes; "Send value in the event of changes[5.255]*0.1(°C)" can be set to: 1 seconds, 2 seconds 120minutes; ④ "Check error for internal temperature", options: No, yes. When "yes" is selected, the following parameter will appear: "Cycle time for sending temperature seconds120 minutes; (2) When "yes" is selected, the following parameter will appear: "Cycle time for sending parameters will appear: "Cycle time for sending error" can be set to: 1 seconds ,2 seconds120 minutes; (2) When "External sensor" is selected, the following parameters will appear: "Cycle time for sending error" can be set to: 0.1.2255; ② "Read external temperature after monitor period expire", options: No, Yes; ③ "The source of humidity display", options: Internal sensor, External sensor:		
	The source of humidity display options: Internal sensor External concor When "Internal		
The source of humidity display	sensor" is selected, the following parameters will appear: "Send internal humidity", options: No, yes. When "yes" is selected, the following parameter will appear: ① "Cycle time for sending humidity ", can be set to: 1 seconds ,2 seconds120 minutes;② "Send value in the event of changes[1100]%", can be set to: 1,2,3100;		
Temperature display for main page	Temperature display for main page, options: Enabled, Disabled		



Humidity display for main	Liumiditu dianlau fau main nama - antianau Faaklad Dianklad		
page	Humany display for main page, options. Enabled, Disabled		
	Air quality 1 display for main page, options: Enabled, Disabled. When "Enabled" is		
Air quality 1 display for	selected, the following parameter will appear: ①Channel select (Air quality 1 display),		
main page	options: channel 1 ,channel 2,channel3channel 16; ② Item select (Air quality 2		
	display), options: item1,item2,item2item9		
	Air quality 2 display for main page, options: Enabled, ,Disabled. When "Enabled" is		
Air quality 2 display for	selected, the following parameters will appear: ①Channel select (Air quality 2 display),		
main page	options: channel 1 ,channel 2,channel3channel 16; ②Item select (Air quality 2		
	display), options: item1,item2,item2item9		
	Air quality 3 display for main page, options: Enabled, Disabled. When "Enabled" is		
Air quality 3 display for	selected, the following parameter will appear: ①Channel select (Air quality 3 display),		
main page	options: channel 1 ,channel 2,channel3channel 16; ②Item select (Air quality 3		
	display), options: item1,item2,item2item9		
	Setting for reading object, options: Enabled, Disabled. When "Enabled" is selected, the		
	following parameters will appear: ① "Delay time for reading at voltage recovery(*0.1s)"		
	can be set to: 0,1,2,3255; ② "The time between each reading telegram(0.1s)" can be		
	set to: 0,1,2,3255; ③ "Setting reading time when it's running normally", options:		
Setting for reading object	Disabled, Periodic reading, Read at specified time. (4) When "Periodic reading" is selected,		
	the parameter "The time for periodic reading" can be set to: 10min,15min48h;(5)		
	When "Read at specified time" is selected, the parameter "The time point for		
	reading(hour)" can be set to: 0,1,223; "The time point for reading(minute)" can be		
	set to: 0,1,259;		

(2) Click on the option in the red box below to set the relevant parameters of Channel1~Channe16, as shown in Figure 6.1.2,

 Basic settings 	Channel 1	
Basic setting	Read Status object at voltage recovery	O No Ves
Channel setting	Blocking function	O Disabled O Enabled
	Channel 2	
+ Main page	Read Status object at voltage recovery	No Yes
+ General functions	Blocking function	O Disabled C Enabled
+ RGB dimming	Channel 3	
Air conditioner	Read Status object at voltage recovery	No Yes
- Air conditioner	Blocking function	Disabled Enabled
+ Floor heating	Channel 4	
+ Ventilation system	Read Status object at voltage recovery	No Ves
+ HVAC function	Blocking function	O Disabled O Enabled
+ Deckaround music	Channel 5	
	Read Status object at voltage recovery	O No 🔿 Yes
+ Air quality	Blocking function	O Disabled O Enabled
Group Objects Channels	Parameter	

Figure 6.1.2



1. Read Status object at voltage recovery, options: No,Yes;

2 .Blocking function, options: Enabled, Disabled. When "Enabled" is selected, the following parameters will appear: ① "Blocking function", options: blocking = 1, unblocking =0; blocking = 0, unblocking = 1 ② "Blocking value after voltage recovery", options: unblocking, blocking, as before voltage failure. The options in the red box as shown in Figure 6.1.3 are displayed.

- 1	Basic settings	Channel 1	
	Basic setting	Read Status object at voltage recovery	🔿 No 🔘 Yes
	Channel setting	Blocking function	O Disabled O Enabled
+ 1	Main page	Defined value for blocking	1=blocking, 0=unblocking 1=unblocking, 0=blocking
+ (General functions	Blocking value after voltage recovery	unblocking
+ 1	RGB dimming	Channel 2 Read Status object at voltage recovery	◎ No ◯ Yes
+ ,	Air conditioner	Blocking function	O Disabled C Enabled
+ 1	Floor heating	Channel 3	
+	Ventilation system	Read Status object at voltage recovery	O No Ves
+ 1	HVAC function	Blocking function	Disabled Enabled
+ 1	Background music	Read Status object at voltage recovery	No Yes
+ /	Air quality	Blocking function	Disabled Enabled
Grou	up Objects / Channels /	Parameter	

Figure 6.1.3

6.2 Main page

(1) Click the option in the red box below to set the relevant parameters, as shown in Figure 6.2.1

+ Basic settings	Main Page 1	O Disabled	O Enabled
— Main page	Main Page 2	O Disabled	O Enabled
General	Main Page 3	Disabled	O Enabled
Main Page 1			
Main page 2			
Main page 3			
+ General functions			
+ RGB dimming			
+ Air conditioner			
+ Floor heating			
+ Ventilation system			
+ HVAC function 参数 频道 组对象			



Click the General option, the parameter "Main page1-Main page3" appears, and three main pages can be selected. When "Enabled" is selected, the options in the red box are shown as in Figure 6.2.2:

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+ Basic settings	Description for main page 1		
- Main page	Page layout for main page 1	Layout 1	•
Gaporal	Link button 1 for main page 1	Obisabled O Enabled	
Main Page 1	Icon select	Default	•
Main page 2	Which function link to	General functions	•
Main page 2	Channel select	channel 1	•
Main page 5	Link to specified button/item	Oisabled O Enabled	
+ General functions	Button/Item select	Button/Item 1	•
+ RGB dimming	Link button 2 for main page 1		
+ Air conditioner	Link button 2 for main page 1		
+ Eloor beating	Link button 3 for main page 1		
· Hoor heating	Link button 4 for main page 1		
+ Ventilation system	Link button 5 for main page 1	Disabled Usabled	
	Link button 6 for main page 1	Disabled Enabled	

Figure 6.2.2

(2) Click the options in the red box above to set the relevant parameters, as shown in Figure 6.2.2

Parameter	Description
Description for main	Description for main page 1, maximum input content allowed 24 bytes (8 chinese
page 1	characters).
Page layout for main	Page layout for main page 1, options: Layout 1, Layout 2, Layout 3
page 1	
Link button 1 for main	Link button 1 for main page 1, options: Enabled, Disabled. When "Enabled" is selected,
page 1	the following parameters will appear: ① "Icon select" can be set to: Default, Icon1, Icon2,
	Icon3Icon30; ② "Which function link to" can be set to: General functionsI, RGB
	dimming, Air conditioner, Floor heating, Ventilation system, HVAC, Air quality, Energy data,
	Background music. ③ "Channel selest" can be set to: channel 1, channel 2, channel 3
	channel 16; ③When "Channel select" is selected as General functions, Air quality, Energy
	data, the:parameter"Link to specified button/item" will appear, options:Enabled, Disabled.
	When "Enabled" is selected, the following parameters will appear: "Button/Item select"
	can be set to: Button/Item1,Button/Item 2,Button/Item 3Button/Item 12;
Link button X for main	page $Y(X=1\sim16,Y=1\sim3)$, the content is the same as the above description.

6.3 General functions

(1) Click the option in the red box below to set the relevant parameters, as shown in Figure 6.3.1



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Figure 6.3.1

Click the General option, the parameter "Channel 1~Channel 16" appears, 16 general function channels are available, for example, "Channel 1" . When "Enabled" is selected, the options in the red box are shown as in Figure 6.3.2:

+ Basic settings	Description for channel 1		
+ Main page	Page belongs	Independent	•
 General functions 	Page layout	1x1	•
~	Button 1	Disabled Enabled	
General	Button 2	O Disabled C Enabled	
Channel 1	Button 3	Disabled Enabled	
+ RGB dimming	Button 4	Disabled Enabled	
+ Air conditioner	Button 5	Disabled Enabled	
+ Floor heating	Button 6	Disabled Enabled	
+ Ventilation system	Button 7	O Disabled C Enabled	
· ventilation system	Button 8	O Disabled C Enabled	
+ HVAC function	Button 9	Disabled Enabled	
+ Background music	Button 10	Disabled Enabled	
+ Air quality	Button 11	O Disabled C Enabled	
Group Objects Channels	Parameter		

Figure 6.3.2

Parameter	Description
Description for channel 1	Description for channel 1, maximum input content allowed 24 bytes (8 chinese
Description for channel 1	characters)
Page belongs	Not yet activated.



Page layout	Not yet activated.
	Each channel has 12 Buttons for general function, each Button can be set to: Enabled,
Button 1 - Button 12	Disabled. When "Enabled" is selected, the following parameters will appear: ① "Icon
	select", options: Default, lcon1, lcon2, lcon3 lcon30; ② "Description for button1 "
	indicates that button 1 maximum input content allowed 24 bytes;③ "Function for
	button1 " indicates the function of button 1, optional functions for each button: 1. "Text
	only"; 2. "Switch-On"; 3. "Switch-Off"; 4. "Switch-Toggle"; 5. "Curtain-Open/Close/Stop";
	6. "Venetian blinds" ; 7. "Curtain/Roller shutter/Awning" ; 8. "Dimming" ; 9. "Scene control" ;
	10. "Value display" ; 11. "Link button" ;

6.3.1 Text only

Button 1	Oisabled O Enabled	
Icon select	Default	•
Description for button 1	Text	
Function for button 1	Text only	•

6.3.2 Switch On

Button 2	Oisabled O Enabled	
Icon select	Light, Icon 1	-
Description for button 2	Living room	
Function for button 2	Switch-On	•

6.3.3 Switch Off

Button 3	Oisabled O Enabled	
Icon select	Light, Icon 2	-
Description for button 3	Living room	
Function for button 3	Switch-Off	•



6.3.4 Switch Toggle

Button 4	Oisabled O Enabled	
Icon select	Light, Icon 3	•
Description for button 4	Bedroom	
Function for button 4	Switch-Toggle	•

6.3.5 Curtain-Open/Close/Stop

Button 5	O Disabled O Enabled
Icon select	Blind, Icon 1 🔹
Description for button 5	Curtain
Function for button 5	Curtain-Open/Close/Stop 🔹

6.3.6 Venetian blinds

Button 6	Oisabled O Enabled	
Icon select	Ventilation system, Icon 1	•
Description for button 6	Blinds	
Function for button 6	Venetian blinds	•

6.3.7 Curtain/Roller shutter/Awning

•
ning 👻



6.3.8 Dimming

Button 8	Oisabled O Enabled	
Icon select	Dimmer, Icon 1	•
Description for button 8	Dimming	
Function for button 8	Dimming	•
Absolute color temperature	Disabled Enabled	

"Absolute color temperature" can be set to: Disabled, Enabled.

6.3.9 Scene control

Button 9	O Disabled O Enabled	
Icon select	Scene, Icon 1	•
Description for button 9	Scene	
Function for button 9	Scene control	•
Scene number for output	Scene No.1	•
Program scene as long operation	No Ves	

- (1) "Scene number for output" can be set to: Scene No.1, Scene No.2, Scene No.3.....Scene No.64.
- (2) "Program scene as long operation" can be set to: No,Yes.

6.3.10 Value display

Button 10	Oisabled O Enabled	
lcon select	Default	•
Description for button 10	Value display	
Function for button 10	Value display	•
Units for value display	No unit	•
Data type for value display	1bit	•
Display select for 1bit	Value display Alarm display	

(1) "Units for value display" can be set to: No unit, mA, A, V, W, cosφ, Wh, KWh, ug/m3, mg/m3, ppm, °C,° F, %, Lux,



h, min, s, ms, m, km.

(2) "Data type for value display" can be set to: 1 bit,1byte, 2 byte, 4 byte.

(3) "Display select for 1 bit/1byte" can be set to: Value display, Alarm display; When "Display select for 2byte/4byte" is selected, options: unsigned display, signed display, float display.

6.3.11 Link button

Button 11	Oisabled O Enabled
lcon select	Default 👻
Description for button 11	Link function
Function for button 11	Link button 👻
Which function link to	General functions 🔹
Channel select	channel 1 🔹
Link to specified button/item	Disabled Enabled

(1) "Which function link to" options: General function ,RGB dimming ,Air conditioner,Floor heating,Ventilation system,HVAC,Air quality,Energy data,Background music.

(2)" Channel select" can be set to: Channel 1, channel 2..... channel 16.

(3)" Link to specified button/item", options: Disabled, Enabled. When "Enabled" is selected, the parameter "button/item select" can be set to: button/item1,button/item2,button/item3.....button/item12.

6.4 RGB dimming

Click the option in the red box below to set the relevant parameters, as shown in Figure 6.4.1

+ Basic settings	Channel 1	Oisabled O Enabled
+ Main page	Channel 2	O Disabled C Enabled
+ General functions	Channel 3	Disabled Enabled
	Channel 4	O Disabled C Enabled
	Channel 5	O Disabled O Enabled
General	Channel 6	O Disabled C Enabled
Channel 1	Channel 7	O Disabled C Enabled
+ Air conditioner	Channel 8	Disabled Enabled
+ Floor heating	Channel 9	O Disabled C Enabled
+ Ventilation system	Channel 10	Disabled Enabled
+ HVAC function	Channel 11	Disabled Enabled
	Channel 12	O Disabled C Enabled
+ Background music	Channel 13	Disabled Enabled
参数 频道 组对象		

Figure 6.4.1

Click the General option, the parameter "Channel 1~Channel 16" appears, 16 RGB dimming channels are available, for example, "Channel 1". When "Enabled" is selected, the options in the red box are shown as in Figure 6.4.2:

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+ Basic settings	Description for RGB dimming 1	RGB
+ Main page		
+ General functions	Dimming type	RGB dimming O RGBW dimming
- RGB dimming	Datapoint type for RGBW control	🔵 1byte x 4 🛛 🔘 6byte x 1
General	Status for RGBW	
Channel 1	Datapoint type for RGBW status	1byte x 4 O 6byte x 1
+ Air conditioner	Absolute color temperature	O Disabled O Enabled
Floor heating		
 Ventilation system 		
+ HVAC function		
+ Background music		
参数 / 版道 / 组对象		

Figure 6.4.2

Parameter	Description
Description for RGB dimming 1	Description for RGB dimming 1, maximum input content allowed 24 bytes (8
	chinese characters) .
Dimming type	Dimming type, options: "RGB dimming" and "RGBW dimming" (1) When "RGB
	dimming" is selected, $\textcircled{1}$ "Data point type for RGB control" can be set to: 1byte x
	3 and 3byte x 1; (2) "Data point type for RGB status" can be set to: 1byte x 3 and
	3byte x 1 (2) When "RGBW dimming" is selected, $\textcircled{1}$ "Data point type for RGBW
	control" can be set to: 1byte x 4 and 6byte x 1; (2) "Data point type for RGBW
	status" can be set to: 1byte x 4 and 6byte x 1.
Absolute color temperature	Absolute color temperature, options: Enabled, Disabled

6.5 Air conditioner

Click the option in the red box below to set the relevant parameters, as shown in Figure 6.5.1

+ Basic settings	Channel 1	Disabled Enabled
+ Main page	Channel 2	O Disabled O Enabled
+ General functions	Channel 3	O Disabled O Enabled
+ PGP dimming	Channel 4	Disabled Enabled
	Channel 5	O Disabled O Enabled
- Air conditioner	Channel 6	O Disabled C Enabled
General	Channel 7	O Disabled C Enabled
+ Floor heating	Channel 8	O Disabled O Enabled
+ Ventilation system	Channel 9	O Disabled O Enabled
+ W/AC function	Channel 10	Disabled Enabled
TIVACIUNCIÓN	Channel 11	O Disabled O Enabled
+ Background music	Channel 12	O Disabled C Enabled
+ Air quality	Channel 13	O Disabled C Enabled
+ Energy data	Channel 14	Disabled Enabled
Group Objects Channels	Parameter	

Figure 6.5.1



Click the General option, the parameter "Channel 1~Channel 16" appears, 16 air comditioner function channels are available, for example, "Channel 1". When "Enabled" is selected, the options in the red box are shown as in Figure 6.5.2:

 General functions 	Description for Air condition 1	Air condition
BGB dimming	Control for mode	
Kob dirining	Value for cool mode	0
Air conditioner	Value for heat mode	1
General	Dry mode	O Disabled C Enabled
Channel 1	Ventilation mode	O Disabled C Enabled
Floor heating	Auto mode	O Disabled C Enabled
	Control for fan speed	
Ventilation system	Value for Fan speed low	1
HVAC function	Value for Fan speed medium	2
Background music	Value for Fan speed high	3
Air quality	Fan speed - auto	O Disabled C Enabled
	Data type for temperature	2 byte(knx standard DPT)
Energy data	Temperature source	Internal sensor External sensor

Figure	6.5.2

Parameter	Description
Description for Air condition 1	Description for Air condition 1, maximum input content allowed 24 bytes (8
	chinese characters)
Value for cool mode	Value for cool mode, options: 0,1,2,3255;
Value for heat mode	Value for heat mode, options: 0,1,2,3255;
Drymode	Dry mode, options: Enabled, Disabled. When "Enabled" is selected, there are
Dry mode	following parameters: "Value for dry mode", options: 0,1,2,3255;
Ventilation mode	Ventilation mode, options: Enabled, Disabled. When "Enabled" is selected, the
ventilation mode	parameter "Value for ventilation mode" can be set to : 0,1,2,3255;
Auto mode	Auto mode, options: Enabled, Disabled. When "Enabled" is selected, the parameter
Automode	" Value for auto mode" can be set to: 0,1,2,3255;
Value for Fan speed low	Value for fan speed low, options: 0,1,2,3255;
Value for Fan speed medium	Value for fan speed medium, options: 0,1,2,3255;
Value for Fan speed high	Value for fan speed high, options: 0,1,2,3255;
Fan analog auto	Fan speed - auto, options: Enabled, Disabled. When "Enabled" is selected, the
Fall speed - auto	parameter "Value for Fan speed auto" can be set to: 0,1,2,3255;
Data type for temperature	Data type for temperature, parameter: 2 byte(KNX standard DPT)
Tamparatura courca	Temperature source, options: "Internal sensor" or "External sensor". When
lemperature source	"External sensor" is selected, the parameter "Time period for request external



	sensor(min)" can be set to : 0,1,2,3255; the parameter "Read external sensor after	
	voltage recovery" can be set to: No,Yes.	
The change in each step for	The shange in each step for setting temperature continues 01051152	
setting temperature	The change in each step for setting temperature, options: 0.1,0.5,1,1.5,2;	
Min. set temperature [1632°C]	Min. set temperature, options: 16,17,1832℃	
Max. set temperature [1632°C]	Max. set temperature, options: 16,17,1832°C	
Fault code	Fault code, options: Disabled,1-byte,2-byte	

6.6 Floor heating

Click the option in the red box below to set the relevant parameters, as shown in Figure 6.6.1

+ Basic settings	Channel 1	O Disabled C Enabled
+ Main page	Channel 2	O Disabled C Enabled
+ General functions	Channel 3	O Disabled C Enabled
+ PCP dimming	Channel 4	Disabled Enabled
	Channel 5	Disabled Enabled
+ Air conditioner	Channel 6	O Disabled C Enabled
- Floor heating	Channel 7	O Disabled C Enabled
General	Channel 8	O Disabled O Enabled
+ Ventilation system	Channel 9	O Disabled O Enabled
1. 1946 (Channel 10	Disabled Enabled
+ HVAC function	Channel 11	Disabled Enabled
+ Background music	Channel 12	O Disabled C Enabled
+ Air quality	Channel 13	O Disabled C Enabled
+ Energy data	Channel 14	Disabled Enabled
Group Objects / Channels /	Parameter	

Figure 6.6.1

Click the General option, the parameter "Channel 1~ Channel 16" appears, 16 floor heating function channels are available, for example, "Channel 1". When "Enabled" is selected, the options in the red box are shown as in Figure 6.6.2:

RGB dimming	Description for Floor heating 1	Floor heating	
Air conditioner			
Floor heating	Relay switch	Ulsabled Enabled	
General	Temperature source	Internal sensor External sensor	
Channel 1	Temperature Hysteresis[0255]*0.1	5	3
Ventilation system	Option for setting	Disabled	
General	Floor function after voltage recovery	Off	
HVAC function	Setting temperature	O Disabled C Enabled	
Background music	Setting function switch	O Disabled O Enabled	
Air quality	The change in each step for setting	0.5	
Energy data	Min, set temperature[540°C]	5°C	

Figure 6.6.2



Parameter	Description	
Description for Floor heating	Description for Floor heating 1, maximum input content allowed 24 bytes (8 chinese	
1	characters) .	
Bolov quitch	Relay switch, options: Enabled, Disabled. When "Enabled" is selected, the parameter	
Relay Switch	"Status relay switch" can be set to: Enabled, Disabled;	
	Temperature source, options: "Internal sensor" or "External sensor". When "External	
	sensor" is selected, there are following parameters: "Time period for request external	
	sensor(min)", options: 0,1,2,3255; "Read external sensor after voltage recovery",	
	options: No,Yes. (5) "Temperature Hysteresis[0255]*0.1", options: 0,1,2,3255;	
	Option for setting, options: " Disabled ", "Read setting object at voltage recovery",	
Option for setting	"Send setting as feedback when receiving setting" . When "Disabled" or " Send	
option for setting	setting as feedback when receiving setting " is selected, the parameter "Floor function	
	after voltage recovery" can be set to: Off, On, As before voltage failure;	
Setting temperature	Setting temperature, options: Enabled, Disabled.	
Setting function switch	Setting function switch, options: Enabled, Disabled.	
The change in each step for	The change in each step for setting temperature options: 01051152	
setting temperature		
Min. set temperature [540°C]	Min. set temperature, options: 5,6,740°C	
Max. set temperature [540°C]	Max. set temperature, options: 5,6,740°C	
	High temperature alarm, options: Enabled, Disable. When "Enabled" is selected,	
	there are following parameters: ① "Temperature source from the third", options:	
High temperature alarm	No,Yes; ② "Trigger value for high temperature alarm", options: 5,6,745; ③ "Send	
	value for triggering alarm", options: Off, On; ④ "Cycle time for high temperature	
	alarm[Base]", options: 1s,2s,3s30min; (5) "Cycle time for high temperature alarm	
	[Factor]", options: 0,1,2,3255;	
	Frost protection, options: Enabled, Disabled. When "Enabled" is selected, there are	
	following parameters: ① "Temperature source from the third", options: No, Yes;	
Frost protection	② "Temp. threshold in Frost protection", options: 0,1,245; ③ "Send value for	
	triggering frost protection", options: Off, On; ④ "Cycle time for triggering frost	
	protection [Base]", options: 1s, 2s, 3s30min; (5) "Cycle time for triggering frost	
	protection [Factor]", options: 0, 1, 2, 3255;	

6.7 Ventilation system

Click on the option in the red box below to set the relevant parameters, as shown in Figure 6.7.1

+ Basic settings	Channel 1	O Disabled C Enabled
+ Main page	Channel 2	O Disabled O Enabled
+ General functions	Channel 3	O Disabled O Enabled
+ RGB dimmina	Channel 4	O Disabled O Enabled
	Channel 5	O Disabled O Enabled
+ Air conditioner	Channel 6	O Disabled O Enabled
+ Floor heating	Channel 7	O Disabled O Enabled
- Ventilation system	Channel 8	Disabled Enabled
General	Channel 9	O Disabled O Enabled
+ HVAC function	Channel 10	O Disabled O Enabled
	Channel 11	O Disabled O Enabled
+ Background music	Channel 12	O Disabled C Enabled
+ Air quality	Channel 13	O Disabled C Enabled
+ Energy data	Channel 14	O Disabled O Enabled

Electricals

Figure 6.7.1

Click the General option, the parameter "Channel 1~Channel 16" appears, 16 ventilation system function channels are available, for example, "Channel 1". When "Enabled" is selected, the options in the red box are shown as in Figure 6.7.2:

+ General functions	Description for Ventilation 1	Ventilation	
+ RGB dimming	Data type of Fan speed control	1 hit 1 hvte	
 Air conditioner 	Status fan speed control for 1bit	 Disabled Enabled 	
► Floor heating	Delay between fan speed switch[0255] *0.1s	20	* *
- Ventilation system			
	Temperature source	O Internal sensor C External sensor	
General			
General Channel 1	Option for setting	Disabled	•
General Channel 1 HVAC function	Option for setting Ventilation function after voltage recovery	Disabled	•
General Channel 1 HVAC function Background music	Option for setting Ventilation function after voltage recovery Setting fan speed	Disabled Off O Disabled Enabled	•
General Channel 1 HVAC function Background music Air quality	Option for setting Ventilation function after voltage recovery Setting fan speed Setting function switch	Disabled Off O Disabled O Enabled O Disabled O Enabled	•
General Channel 1 HVAC function Background music Air quality Energy data	Option for setting Ventilation function after voltage recovery Setting fan speed Setting function switch	Disabled Off O Disabled O Enabled O Disabled O Enabled	•

Figure 6.7.2



Parameter	Description	
Description for Ventilation 1	Description for Ventilation 1, maximum input content allowed 24 bytes (8 chinese	
Description for ventilation 1	characters) .	
	Data type of fan speed control, options: 1 bit or 1 byte. When "1 bit " is selected,	
	the parameter "Status fan speed control for 1bit" indicates 1bit fan speed control	
	status, options: Enabled, Disabled. When" 1 byte " is selected, the parameter "Value	
	for Fan speed off" indicates the value that represents the wind speed off., options:	
Data type of Fan speed	0,1,2,3255; ③ "Value for Fan speed low" indicates the value representing the	
control	low-level fan speed, options: 0,1,2,3255; ④ "Value for Fan speed medium"	
	indicates the value representing the medium -level fan speed, options: 0,1,2,3,255;	
	(5) "Value for Fan speed high" indicates the value representing the high -level fan	
	speed, options: 0.1.2.3255: ⑥ "Status fan speed control for 1byte" indicates 1byte	
	of fan speed control status, options: Enabled Disabled	
Delay between fan speed		
switch [0, 255]*0 1s	Delay between fan speed switch [0255]* 0.1s,options: 0,1,2,3255;	
	Temperature source, ontions: "Internal sensor" or "External sensor". When "External	
	sensor" is selected, the parameter "Time period for request external sensor(min)" can	
Temperature source	be set to: 0.1.2.3 255: "Read external sensor after voltage recovery" can be set to:	
	No Ves	
	Option for sotting options: "Disabled " "Boad sotting object at voltage recovery"	
	"Sond sotting as foodback when receiving sotting" When "Disabled" or "Sond sotting	
Option for setting	as foodback when receiving setting " is colocted, the parameter "Ventilation function	
	as reeuback when receiving setting is selected, the parameter ventilation function	
	Setting for croad, options: Enabled Disabled When "Enabled" is colorted, the	
	following five parameters will appear: () "Value for setting Fan speed off", san he set	
	To now ing five parameters will appear. (1) value for setting ran speed on can be set to: $0.1.2.2$	
Setting fan speed	$0.0, 1, 2, 3, \dots, 255, 0$ value for setting ran speed low can be set to: $0, 1, 2, 3, \dots, 255, 0$	
	(3) Value for setting Fan speed medium Can be set to: 0,1,2,3255; (4) Value for	
	setting Fan speed high can be set to: 0,1,2,3255; (5) Value for setting Fan speed	
	auto can be set to: 0,1,2,3255;	
Setting function switch	Setting function switch, options: Enabled, Disabled.	
Heat exchange function	Heat exchange function, options: No; Disabled=0/Enabled=1; Disabled=1/Enabled=0.	
Filter counting function	Filter counting function, options: Enabled, Disabled. When "Enabled" is selected,	
	the parameter "Count time[10010000]*h" can be set to: 100,101,10210000.	
	Auto. fan speed function, options: Enabled, Disabled. When "Enabled" is selected,	
Auto. fan speed function	there are following parameters: "Auto. operation via object", options :	
· · · · · · · · · · · · · · · · · · ·	Cannel=0/Auto=1, Cannel=1/Auto=0; "Fan speed control output when air- quality	
	value error", options: Off, low, Medium, High.	
Cycle time for request	Cycle time for request air-quality value in Auto. (min), options: 0.1.2.3255;	
air-quality value in Auto.(min)		
Air-quality value reference	Reference of air-quality value , options: PM2.5(µg/m3); CO2(ppm); HCHO(mg/m3);	
from	TVOC(mg/m3)	
Base of all threshold and	Base of all threshold and hysteresis value $antions: 00.01 \cdot 00.1 \cdot 01 \cdot 010$	
hysteresis value		
Factor of hysteresis valuer	Factor of hysteresis valuer, options: 0,1,2,3255;	



Factor of threshold value for	Eactor of throshold value for Off < > Low entions: 0.1.2.2 65525	
Off<->Low	Factor of threshold value for OII<->Low, options: 0,1,2,365535	
Factor of threshold value for	Faster of threshold value for Low () Madium entioner 0122 (FF2F	
Low<->Medium	Factor of threshold value for Low<->Medium, options: 0,1,2,365535	
Factor of threshold value for	Factor of throshold value for Medium () High portions; 0122 (FE2E	
Medium<->High		
Minimum time in fan	Minimum time for changing the fan speed(s), options: 0,1,2,365535	
speed(s)		

6.8 HVAC function

Click on the option in the red box below to set the relevant parameters, as shown in Figure 6.8.1

+ General functions	Channel 1	Disabled Enabled
+ RGB dimming	Channel 2	Disabled Enabled
+ Air conditioner	Channel 3	Disabled Enabled
+ Floor heating	Channel 4	O Disabled C Enabled
+ Ventilation system	Channel 5	Disabled Enabled
	Channel 6	Disabled Enabled
- HVAC function	Channel 7	Disabled Enabled
General	Channel 8	Disabled Enabled
+ Background music	Channel 9	Disabled Enabled
+ Air quality	Channel 10	O Disabled O Enabled
+ Energy data	Channel 11	Disabled Enabled
	Channel 12	Disabled Enabled
+ Time function	Channel 13	Disabled Enabled
+ Scene module	Channel 14	Disabled Enabled
Group Objects Channels	Parameter	

Figure 6.8.1

Click the General option, the parameter "Channel 1~Channel 16" appears, 16 HVAC function channels are available, for example, "Channel 1". When "Enabled" is selected, the options in the red box are shown as in Figure 6.8.2:

RGB dimming	Description for HVAC 1	HVAC	
Air conditioner			
	Heat/cool control	Disabled Enabled	
Floor heating	Fan speed control	Disabled Enabled	
Ventilation system			
- HVAC function	Indoor temperature source	Internal sensor External sensor	
General	Option for setting	Disabled	
Channel 1	HVAC function after voltage recovery	Off	
Background music	Setting heat/cool mode	O Disabled C Enabled	
- Air quality	Setting HVAC mode	Disabled Enabled	
► Energy data	Setting fan speed	O Disabled C Enabled	
 Time function 	Setting function switch	O Disabled C Enabled	



Figure 6.8.2

Parameter	Description	
Description for HVAC 1	Description for HVAC 1, maximum input content allowed 24 bytes (8 chinese characters).	
Heat/cool control	Heat/cool control, options: Enabled, Disabled;	
Fan speed control	Fan speed control, options: Enabled, Disabled;	
Indoor temperature source	Indoor temperature source, options: "Internal sensor" or "External sensor". When "External sensor" is selected, the parameter "Time period for request external sensor(min)" can be set to: 0,1,2,3255; "Read external sensor after voltage recovery" can be set to: No, Yes.	
Option for setting	Option for setting, options: "Disabled ", "Read setting object at voltage recovery", "Send setting as feedback when receiving setting". When "Disabled" or "Send setting as feedback when receiving setting " is selected, the parameter "HVAC function after voltage recovery" can be set to: Off, On, As before voltage failure:	
Setting heat/cool mode	Setting heat/cool mode, options: Enabled, Disabled. When "Enabled" is selected, the parameter "Data type for setting heat/cool mode" can be set to: 1 bit; 1 byte; When " 1 byte " is selected, the parameter "Value for heat mode" can be set to: 0,1,2,3255; "Value for-cool mode" can be set to: 0,1,2,3255;	
Setting HVAC mode	Setting HVAC mode, options: Enabled, Disabled. (1) When "Enabled" is selected, the parameter "HVAC mode after voltage recovery" can be set to: Comfort mode; Standby mode; Economy mode; Protection mode; As before voltage failure. (2) "Extended comfort mode [0255, 10=inactive]*min" can be set to: 0,1,2,3255; (3) "Extended economy mode [0255, 10=inactive]*min" can be set to: 0,1,2,3255;	
Setting fan speed	Setting fan speed, options: Enabled, Disabled. When "Enabled" is selected, there are following parameters: ① "Value for setting Fan speed off", options: 0,1,2,3255; ② "Value for setting Fan speed low", options: 0,1,2,3255; ③ "Value for setting Fan speed medium", options: 0,1,2,3255; ④ "Value for setting Fan speed high", options: 0,1,2,3255; ⑤ "Value for setting Fan speed auto", options: 0,1,2,3255;	
Setting function switch Setting function switch, options: Enabled, Disabled.		
Setting temperature Setting temperature, options: Enabled, Disabled.		
The change in each step for setting temperature	The change in each step for setting temperature, options: 0.1,0.5,1,1.5,2	
Min. set temperature [540°C]	Min. set temperature, options: 5,6,740°C	
Max. set temperature [540°C]	Max. set temperature, options: 5,6,740°C	

6.9 Background music

Click on the option in the red box below to set the relevant parameters, as shown in Figure 6.9.1



+ General functions	Channel 1	O Disabled C Enabled
+ RGB dimming	Channel 2	O Disabled C Enabled
+ Air conditioner	Channel 3	O Disabled C Enabled
+ Floor heating	Channel 4	O Disabled O Enabled
+ Ventilation system	Channel 5	O Disabled C Enabled
+ INVAC function	Channel 6	Disabled Enabled
	Channel 7	Disabled Enabled
 Background music 	Channel 8	O Disabled O Enabled
General	Channel 9	O Disabled C Enabled
+ Air quality	Channel 10	O Disabled C Enabled
+ Energy data	Channel 11	O Disabled O Enabled
	Channel 12	Disabled Enabled
+ Time function	Channel 13	Disabled Enabled
+ Scene module	Channel 14	Disabled Enabled
Group Objects Channels	Parameter	

Figure 6.9.1

Click the General option, the parameter "Channel 1~Channel 16" appears, 16 background music channels are available, for example, "Channel 1". When "Enabled" is selected, the options in the red box are shown as in Figure 6.9.2:

+ General functions	Description for BG music 1	Music
+ RGB dimming		
+ Air conditioner	Power on/off	◎ On=1/Off=0 ○ On=0/Off=1
+ Floor heating	Play/pause	Play=1/Pause=0 Play=0/Pause=1
	Song select	Previous=1/Next=0 Previous=0/Next=1
 Ventilation system 	Data type for volume adjustment	1bit 1byte
+ HVAC function	volume adjustment	Volume+=1/Volume-=0
= Packaround music	volume adjustment	Volume+=0/Volume-=1
	Play progress	0255(0%100%) 0100(0%100%)
General	Music mute	Mute=1/Cancel=0 Mute=0/Cancel=1
Channel 1	Play mode setting	
 Air quality 	Output value for single cycle	0
Energy data	Output value for random play	0
	Output value for playlist cycle	0
+ Time function	Output value for play in order	0

Figure 6.9.2

Parameter	Description
Description for BG music 1	Description for BG music 1, Maximum input content allowed 24 bytes (8 chinese characters).
Power on/off	Power on/off, options: On=1/Off=0 or On=0/Off=1
Play/pause	Play/pause, options: Play=1/Pause=0 or Play=0/Pause=1;



Song select	Song selection, options: Previous=1/Next=0 or Previous=0/Next=1;	
	Data type for volume adjustment, options: 1 bit or 1byte. When "1 bit" is selected,	
Data type for volume	the parameter "volume adjustment" can be set to; Volume+=1/Volume-=0 or	
adjustment	Volume+=0/Volume-=1; When" 1byte " is selected, the parameter "Format for	
	volume adjustment" can be set to: 0255(0%100%),0100(0%100%).	
Play progress	Not yet activated	
Music mute	Music mute, options: Mute=1/Cancel=0 or Mute=0/Cancel=1	
Output value for single cycle	Output value for single cycle, options: 0,1,2,3255;	
Output value for random play	Output value for random play, options: 0,1,2,3255;	
Output value for playlist cycle	Output value for playlist cycle, options: 0,1,2,3255;	
Output value for play in order	Output value for play in order, options: 0,1,2,3255;	
Type of music source	Type of music source, options: "Media source type 1"; "Media source type 2". When "Media source type 1" is selected, there are following parameters: "Output value for cloud music", options: 0,1,2,3255; "Output value for local music", options: 0,1,2,3255; "Output value for news information", options: 0,1,2,3255, "Output value for language program", options: 0,1,2,3255; "Output value for children", options: 0,1,2,3255; "Output value for children", options: 0,1,2,3255; "Output value for AUX", options: 0,1,2,3255; When "Media source type 2" is selected, there are parameters: "Output value for FM", options: 0,1,2,3255; "Output value for MP3", options: 0,1,2,3255; "Output value for AUX", options: 0,1,2,3255; "Output value for IPOD", options: 0,1,2,3255; "Output value for IPOD", options: 0,1,2,3255; "Output value for NET-RADIO", options: 0,1,2,3255, "Output value for CLOUD-MUSIC", options: 0,1,2,3255.	

6.10 Air quality

Click on the option in the red box below to set the relevant parameters, as shown in Figure 6.10.1

+ General functions	Channel 1	Disabled Enabled
+ RGB dimming	Channel 2	Disabled Enabled
+ Air conditioner	Channel 3	Disabled Enabled
+ Floor heating	Channel 4	Disabled Enabled
+ Ventilation system	Channel 5	Disabled Enabled
	Channel 6	Disabled Enabled
+ HVAC function	Channel 7	Disabled Enabled
+ Background music	Channel 8	Disabled Enabled
- Air quality	Channel 9	Disabled Enabled
General	Channel 10	O Disabled C Enabled
+ Energy data	Channel 11	Disabled Enabled
	Channel 12	Disabled Enabled
+ Time function	Channel 13	Disabled Enabled
+ Scene module	Channel 14	Disabled Enabled
Group Objects / Channels	Parameter	

Figure 6.10.1



Click the General option, the parameter "Channel 1~Channel 16" appears, 16 air quality display function channels are available, for example, "Channel 1". When "Enabled" is selected, the options in the red box are shown as in Figure 6.10.2:

 RGB dimming 	Description for Air quality 1	Air quality	
+ Air conditioner			
 Floor heating 	Items 1 function in List display	Disabled O Enabled	
	Description for Item 1	AQI	
+ Ventilation system	Air quality select for Item 1	AQI	•
+ HVAC function	Items 2 function in List display	O Disabled C Enabled	
+ Background music	Items 3 function in List display	O Disabled O Enabled	
– Air quality	Items 4 function in List display	O Disabled O Enabled	
	Items 5 function in List display	O Disabled Enabled	
General	Items 6 function in List display	O Disabled O Enabled	
Channel 1	Items 7 function in List display	O Disabled O Enabled	
+ Energy data	Items 8 function in List display	O Disabled O Enabled	
+ Time function	Items 9 function in List display	O Disabled O Enabled	
	Time period for request air quality		

Figure 6.10.2

Parameter	Description
Description for Air quality 1	Description for Air quality 1, maximum input content allowed 24 bytes.
	Items 1 function in List display, each channel can display 9 item functions, options:
Items 1 function in List	Enabled, Disabled. When "Enabled" is selected, the following parameters will display.
display - Items 9 function in	"Description for Item 1", indicates the description of item 1, maximum input content
List display	allowed 24 bytes; "Air quality select for Item 1" can be set to: ①AQI(Air Quality Index);
	②Temperature; ③Humidity;④PM2.5; ⑤PM10; ⑥HCHO; ⑦TVOC; ⑧CO2; ⑨CO
Time period for request air	Time period for request air quality (min) $0 = disabled entions; 0.1.2.2 = 255$
quality (min),0=disable	Time period for request an quality ((1111) , $0 = 0$ (sabled, options: $0, 1, 2, 3, \dots, 255$.

6.11 Energy data

Click on the option in the red box below to set the relevant parameters, as shown in Figure 6.11.1

+ General functions	Channel 1	Disabled Enabled
+ RGB dimming	Channel 2	Disabled Enabled
+ Air conditioner	Channel 3	Disabled Enabled
+ Floor heating	Channel 4	Disabled Enabled
+ Ventilation system	Channel 5	Disabled Enabled
	Channel 6	O Disabled O Enabled
+ HVAC function	Channel 7	O Disabled C Enabled
+ Background music	Channel 8	Disabled Enabled
+ Air quality	Channel 9	Disabled Enabled
– Energy data	Channel 10	Disabled Enabled
General	Channel 11	Disabled Enabled
	Channel 12	Disabled Enabled
+ Time function	Channel 13	Disabled Enabled
+ Scene module	Channel 14	Disabled Enabled
Group Objects Channels	Parameter	

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Figure 6.11.1

Click the General option, the parameter "Channel 1~Channel 16" appears, 16 energy data display function channels are available, for example, "Channel 1". When "Enabled" is selected, the options in the red box are shown as in Figure 6.11.2:

+ RGB dimming	Description for Energy data 1	Energy data	
+ Air conditioner			
+ Floor heating	Items 1 function in List display	O Disabled Enabled	
+ Ventilation system	Items 3 function in List display	Disabled Enabled	
+ HVAC function	Items 4 function in List display	O Disabled C Enabled	
+ Background music	Items 5 function in List display	O Disabled C Enabled	
+ Air quality	Items 6 function in List display	O Disabled C Enabled	
– Energy data	Items 7 function in List display Items 8 function in List display	 Disabled Enabled Disabled Enabled 	
General	Items 9 function in List display	O Disabled C Enabled	
Channel 1	Time period for request energy data (min),0=disable	0	* *
+ Time function			
参数 频道 组对	家		

Figure 6.11.2



Parameter	Description
Description for Energy data 1	Description for Energy data 1, Maximum input content allowed 24 bytes.
Items 1 function in List display - Items 9 function in List display	Items function in List display, each channel can display 9 item functions, options: Enabled,Disabled. When "Enabled" is selected, the parameter "Description for Item 1" indicates the description of item 1, the maximum allowed input content is 24 bytes. "Energy data select for Item 1" can be set to: ①Current, with parameter "Data point for current", options: Value in mA(DPT 7.012), Value in A(DPT 14.019); ② Voltage, with parameter "Display format for voltage", options: X,X,X,XXX; ③Power, with parameter "Display format for Power", options: X,X,X,XXX; ④Power factor;
	(5) Electric energy, with parameter "Display format for Electric energy", options: Value in Wh(DPT 13,010) Value in kWh(DPT 13,013)
Time newind for request	
time period for request	Time period for request Energy data (min), 0 = disabled, options: 0,1,2,3255.
Energy data (min), 0=disable	

6.12 Time functions

(1) Click on the option in the red box below to set the relevant parameters, as shown in Figure 6.12.1

+ General functions	Channel 1	O Disabled O Enabled	
+ RGB dimming	Channel 2	O Disabled C Enabled	
+ Air conditioner	Channel 3	O Disabled C Enabled	
+ Floor heating	Channel 4	O Disabled O Enabled	
+ Ventilation system	Channel 5	O Disabled C Enabled	
	Channel 6	Disabled Disabled	
+ HVAC function	Channel 7	Disabled Enabled	
+ Background music	Channel 8	O Disabled C Enabled	
+ Air quality	Channel 9	O Disabled C Enabled	
+ Energy data	Channel 10	Disabled Enabled	
- Time function	Channel 11	O Disabled C Enabled	
	Channel 12	Disabled Enabled	
General	Channel 13	O Disabled O Enabled	
+ Scene module	Channel 14	O Disabled O Enabled	
Group Objects Channels Parameter			

Figure 6.12.1

Click the General option, the parameter "Channel 1~Channel 16" appears, 16 channels are available, for example, "Channel 1". When "Enabled" is selected, the options in the red box are shown as in Figure 6.12.2:

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+ Air conditioner	Description for time 1	Timer mode 1	
+ Floor heating	Dis./En. Time func. 1 via object	Disabled=0/Enabled=1	
+ Ventilation system		Disabled=1/Enabled=0	
	Output for time funciton	1bit	•
+ HVAC function	Output value for 1bit	O Off O On	
+ Background music	Monday configuration	O Disabled C Enabled	
+ Air quality	Tuesday configuration	O Disabled C Enabled	
+ Energy data	Wednesday configuration	O Disabled C Enabled	
- Time function	Thursday configuration	O Disabled O Enabled	
	Friday configuration	Disabled Enabled	
General	Saturday configuration	O Disabled O Enabled	
Channel 1	Suturuly configuration		
	Sunday configuration	Disabled Enabled	
+ Scene module			
参数 频道 组对象	/		

Figure 6.12.2

Paramter	Description
Description for channel 1	Description for channel 1, Maximum input content allowed 24 bytes (8 chinese
	characters) .
Dis./En. Time func. 1 via	Timing switch object, options: Disabled=0/Enabled=1 or Disabled=1/Enabled=0;
object	
	Output for time function, options: 1bit, 1byte(unsigned value), 1byte(scene number),
	2byte(unsigned value); ① When 1bit is selected, the parameter "Output value for 1bit"
	can be set to: off,on.② When 1byte(unsigned value) is selected, the parameter "Output
Output for time function	value for 1byte(unsigned value)" can be set to: 0,1,2255; ③ When 1byte(scene number)
	is selected, the parameter "Output value for 1byte(scene number)" can be set to: 0,1,2
	64; (a) When 2 byte (unsigned value) is selected, the parameter "Output value for
	2byte(unsigned value) " can be set to: 0,1,265535;
	Timing can be configured once for each channel each day, e.g., Monday, options: Enabled,
	Disabled. When "Enabled" is selected, the following parameters display: ① "Timing mode",
	options: "Normal mode" or "Sunrise/sunset mode". When "Normal mode" is selected, ,
Monday configuration	there are following parameters. ① "Hour at xx for Monday" can be set to: 0,1,223; ②
Sunday configuration -	"Minute at xx for Monday" can be set to: 0,1,259; When "Sunrise/sunset mode" is
	selected, the following parameters will display. (3)" Sunrise or sunset" can be set to:
	Sunrise, sunset; ④ "Before or after" can be set to : Before, after; ⑤ "Hour at xx for Monday"
	can be set to: 0,1,223; (6) "Minute at xx for Monday" can be set to: 0,1,259; (Red
	font means that some functions are not yet activated) .

6.13 Scene module

(1) Click on the option in the red box below to set the relevant parameters, as shown in Figure 6.13.1

		Electric	cals
<u>// 5</u>	Ξ	AW	IN

+ RGB dimming	Channel 1	Disabled Enabled
+ Air conditioner	Channel 2	Disabled Enabled
+ Floor heating		
+ Ventilation system		
+ HVAC function		
+ Background music		
+ Air quality		
+ Energy data		
+ Time function		
- Scene module		
General		
参数 频道 组对象	/	

Figure 6.13.1

Click the General option, the parameter "Channel 1~Channel 8" appears, 8 channels are available, for example, "Channel 1". When "Enabled" is selected, the options in the red box are shown as in Figure 6.13.2:

+ Air conditioner	Scene can be saved	◎ No ○ Yes	
+ Floor heating	Data type of output 1 for Scene module	1 1 1bit 1byte	
+ Ventilation system	Data type of output 2 for Scene module	1 1 1 1 1 1 1 1 1 1 1 1 1 1	
+ HVAC function	Data type of output 4 for Scene module	1 1 1bit 1byte	
+ Background music	Data type of output 5 for Scene module	1 lbit 1byte	
+ Air quality	Data type of output 6 for Scene module	1 💿 1bit 🗌 1byte	
+ Energy data	Data type of output 7 for Scene module	1 Ibit 👻	
+ Time function	Data type of output 8 for Scene module	1 1bit	
- Scene module	Delay time for sending value[0255]*0.1	0	
General	Scene NO. for assignment 1 [1-64,0=inacitve]	0	
Channel 1	Output value for assignment 1	Off On	
组对象 频道 参数			

Figure 6.13.2

Parameter	Description							
Scene can be saved	Scene can be saved, options: No,Yes. When "Yes" is selected, the parameter							
	"Overwrite scenes for download" can be set to: No,Yes.							
	Data type of output 1 for Scene module 1, options: 1 bit or 1 byte. When "1 bit"							
Data turna of output 1 for Soona	is selected, the parameter under output 1 "Output value for assignment 1-8" can							
Data type of output 1 for scene	be set to: Off, On. When "1 byte" is selected, the parameter under output 1 "Output							
module i	value for assignment 1-8" can be set to: 0-255; (The corresponding outputs are							
	the parameters of output 1)							



	Data type of output 2 for Scene module 1, options: 1 bit or 1 byte. When "1 bit"						
	is selected, the parameter under output 2 "Output value for assignment 1-8" can						
Data type of output 2 for Scene	be set to: Off. On. When "1 byte" is selected, the parameter under output 1 "Output						
module 1	value for assignment 1-8" can be set to: 0-255: (The corresponding outputs are						
	the parameters of output 2)						
	Data type of output 3 for Scene module 1, options: 1 bit or 1 byte. When "1 bit"						
	is selected the parameter under output 3 "Output value for assignment 1-8" can						
Data type of output 3 for Scene	be set to: Off On When"1 byte" is selected, the parameter under output 1"Output						
module 1	value for assignment 1-8" can be set to: 0-255: (The corresponding outputs are						
	the parameters of output 3						
	Data type of output 4 for Scene module 1, options: 1 bit or 1 byte. When "1 bit"						
	is selected, the parameter under output 4 "Output value for assignment 1-8" can						
Data type of output 4 for Scene	he set to: Off On When"1 byte" is selected the narameter under output 1"Output						
module 1	value for assignment $1-8"$ can be set to: $0-255$. (The corresponding outputs are						
	the parameters of output 4.)						
	Data type of output 5 for Scene module 1 options: 1 bit or 1 byte When "1 bit"						
	is selected, the parameter under output 5 "Output value for assignment 1-8" can						
Data type of output 5 for Scene	he set to: Off On When"1 byte" is selected the parameter under output 1"Output						
module 1	value for assignment 1-8" can be set to: 0-255: (The corresponding outputs are						
	the parameters of output 5.)						
	Data type of output 6 for Scene module 1 options: 1 bit or 1 byte When "1 bit"						
	is selected, the parameter under output 6 "Output value for assignment 1-8" can						
Data type of output 6 for Scene	he set to: Off On When"1 byte" is selected the parameter under output 1"Output						
module 1	value for assignment $1-8"$ can be set to: $0-255$. (The corresponding outputs are						
	the parameters of output 6.)						
	Data type of output 7 for Scene module 1, options: 1 bit, 1 byte or 2 byte. When						
	"1 hit" is selected the parameter under output 7 "Output value for assignment						
Data type of output 7 for Scene	1-8" can be set to: Off On When "1 byte" is selected, the parameter under output						
module 1	1 "Output value for assignment 1-8" can be set to: 0-255. When "2 byte" is						
	selected the parameter under output 1 "Output value for assignment 1-8" can be						
	set to: 0-65535: (The corresponding outputs are the parameters of output 7)						
	Data type of output 8 for Scene module 1, options: 1 bit, 1 byte or 2 byte. When						
	"1 hit" is selected, the parameter under output 8 "Output value for assignment						
Data type of output 8 for Scene	1-8" can be set to: Off. On. When "1 byte" is selected, the parameter under output						
module 1	1 "Output value for assignment 1-8" can be set to: 0-255. When "2 byte" is						
	selected, the parameter under output 1 "Output value for assignment 1-8" can be						
	set to: 0-65535; (The corresponding outputs are the parameters of output 8)						
Delay time for sending value							
[0255]*0.1	Delay time(s) for sending value , options: 0,1,2255;						
Scene NO. for assignment							
1[1-64.0=inacitve	Scene NO. for assignment 1 (0=inactive) , options: 0,1,264;						



7. Communication Objects

The communication object is the medium for the device to communicate with other devices on the bus, that is only the communication object can communicate on the bus. The function of each communication object is described in detail below as shown in Figure 7.1.1, and the specific functions are shown in Table.

Note: in the column of table properties, "C" represents the communication function enable of the communication object, "W" represents the value of the communication object can be rewritten through the bus, "R" represents the value of the communication object can be read through the bus, "T" represents the communication object has the transmission function, and "U" represents the value of the communication object can be updated.

7.1 Basic settings

■2 1	Basic settings	Date	3 bytes	С	-	W	Т	U	date	低	
■₹ 2	Basic settings	Time	3 bytes	С	-	W	Т	U	time of day	低	
■‡ 3	Basic settings	Date-output	3 bytes	С	R	-	Т	-	date	低	
■₹ 4	Basic settings	Time-output	3 bytes	С	R	-	Т	-	time of day	低	
■₽ 5	Basic settings	Brightness of screen	1 byte	С	-	W	Т	U	percentag	低	
■2 6	Basic settings	Enter screen saver	1 bit	С	-	W	Т	U	switch	低	
■₹ 7	Basic settings	Turn off screen	1 bit	С	-	W	Т	U	switch	低	
■2 8	Basic settings	Enter password prot	1 bit	С	-	W	Т	U	switch	低	
■2 9	Basic settings	Device block	1 bit	С	-	W	Т	U	enable	低	
■2 10	Basic settings	Device status	1 bit	С	R	-	Т	-	switch	低	
■之 11	Basic settings	Calibrate internal te	2 bytes	С	-	W	Т	U	temperatu	低	
12	Basic settings	Send internal temp.	2 bytes	С	R	-	Т	-	temperatu	低	
■‡ 13	Basic settings	Alarm for internal te	1 bit	С	R	-	Т	-	alarm	低	
■≵ 15	Basic settings	Send internal humidity	2 bytes	С	R	-	Т	-	humidity (%)	低	

Figure 7.1

No.	Name	Communication object function	Data type	Property						
1,2	Basic settings	Date, Time	3byte	C,W,T,U						
This communication object is enabled when the parameter "Setting for date and time "selects "Enabled" and the										
parameter "Overwrite date and time via object" selects "Yes". This communication object is used to set the date and										
time of the	e device.									
3,4	Basic settings	Date-output, Time-output	Fime-output 3byte C,R,T							
This comm	nunication object is enable	ed when the parameter " Setting for c	date and time " selects	"Enabled" and the						
parameter	"Send date and time to be	us" selects "Yes" . This communicatic	on object is used to read	I the date and time						
of the dev	ce.									
5	Basic settings	Brightness of screen	1byte	C,W, T,U						
This comm	nunication object is enable	d when the parameter " Overwrite dis	play brightness via obje	ect " selects "						
Enabled ".	This communication object	t is used to overwrite display brightne	ess via object.							
6	Basic settings	Enter screen saver	1 bit	C,W,T,U						



This communication object is enabled when the parameter " Enter screensaver via object " selects "Yes". This								
communic	ation object is used to turn	n on / off the screen saver function.						
7	Basic settings	Turn off screen	1 bit	C,W,T,U				
This comm	nunication object is enable	d when the parameter " Turn off backl	ight " selects " Enabled	" and the				
parameter "Turn off backlight via object" selects "Yes". This communication object is used to turn on / off the screen								
brightness								
8	Basic settings	Enter password protection	1 bit	C,W,T,U				
This comm	nunication object is enable	d when the parameter " Password pro	tection " selects " Enabl	ed " and the				
parameter	"Enter password protection	on via object" selects "Yes". This cor	mmunication object is u	used for password				
protection								
9	Basic settings	Device block	1 bit	C,W,T,U				
This comm	nunication object is enable	d when the parameter " Blocking func	tion " selects " Enabled	". This				
communic	ation object is used to turn	n on / off the blocking function.						
10	Basic settings	Device status	1 bit	C,R,T				
This comm	nunication object is enable	d when the parameter " Device status	" selects " Enabled ". Th	nis communication				
object is u	sed to read the device stat	us.						
11	Basic settings	Calibrate internal temp	2 bytes	C, W,T,U				
This comm	nunication object is enable	d when the parameter " The source of	temperature display "	selects " Internal				
sensor " ar	nd the parameter "Overwrit	e temperature Calibration via object" s	elects "Yes". This com	nmunication object				
is used for	temperature calibration.							
12	Basic settings	Send internal temp.	2 bytes	C,R, T				
This comm	nunication object is enable	d when the parameter " The source of	temperature display "	selects " Internal				
sensor " ai	nd the parameter "Send in	ternal temperature" selects "Yes" . T	his communication obj	ect is used to send				
the interna	al temperature.							
13	Basic settings	Alarm for internal temp.	1 bit	C,R, T				
This comm	nunication object is enable	d when the parameter " The source of	temperature display " :	selects " Internal				
sensor " ar	nd the parameter "Check e	rror for internal temperature" selects	"Yes" . This communica	ation object is used				
to check fo	or internal temperature err	ors.						
14	Basic settings	Recv external temp.	2 bytes	C, W,T,U				
This comm	nunication object is enable	d when the parameter " The source of	temperature display "	selects " External				



sensor ". This communication object is used for external temperature functions.									
15	Basic settings	Send internal humidity	2 bytes	C,R, T					
This communication object is enabled when the parameter " The source of humidity display " selects " Internal sensor									
" and the p	" and the parameter "Send internal humidity" selects "Yes". This communication object is used to send the internal								
humidity.									
16 Basic settings Recv external humidity 2 bytes C, W,T,U									
This communication object is enabled when the parameter " The source of humidity display " selects " External sensor									
". This co	mmunication object is use	d to send the external humidity.							

7.2 General functions

23	Channel 1-Button 1, Switch O	n / Off		1 bit	C R	- 1			swite	:h		低
			Switch-Off, Switch-On									
23	Channel 1-Button 1, Switch	On / Off			1 bit	С	R	-	Т	- swi	tch	低
■24	Channel 1-Button 1, Status switch	On / Off			1 bit	С	-	W	Т	U swi	tch	低
			Switch-Toggle									
23	Channel 1-Button 1, Curtain O	pen / Close		1 bit	C R	- 1	Т	-	ope	n/close	e	低
2 4	Channel 1-Button 1, Curtain St	top / Step		1 bit	C R		Т	-	step	0		低

Curtain-Open/Close/Stop

23	Channel 1-Button 1, Blind	Up / Down	1 bit	С	R	-	Т	-	up/down	低
24	Channel 1-Button 1, Blind	Stop / Step	1 bit	С	R	-	Т	-	step	低
25	Channel 1-Button 1, Blind	Position-0100%	1 byte	С	R	-	Т	-	percentag	低
■26	Channel 1-Button 1, Blind	Slat-0100%	1 byte	С	R	-	Т	-	percentag	低
27	Channel 1-Button 1, Blind	Status position-010	1 byte	С	-	W	Т	U	percentag	低
28	Channel 1-Button 1, Blind	Status slat-0100%	1 byte	С	-	W	Т	U	percentag	低
		Venetian blinds								
		Venetian Dinius								
23	Channel 1-Button 1, Roller shutter	Up / Down	1 bit	С	R	-	Т	_	up/down	低
■ 2 3 ■ 2 24	Channel 1-Button 1, Roller shutter Channel 1-Button 1, Roller shutter	Up / Down Stop / Step	1 bit 1 bit	C C	R R	-	T T	-	up/down step	低低
■ 23 24 25	Channel 1-Button 1, Roller shutter Channel 1-Button 1, Roller shutter Channel 1-Button 1, Roller shutter	Up / Down Stop / Step Position-0100%	1 bit 1 bit 1 byte	C C C	R R R	-	T T T	-	up/down step percentag	低 低
■23 ■224 ■25 ■26	Channel 1-Button 1, Roller shutter Channel 1-Button 1, Roller shutter Channel 1-Button 1, Roller shutter Channel 1-Button 1, Roller shutter	Up / Down Stop / Step Position-0100% Status position-010	1 bit 1 bit 1 byte 1 byte	C C C	R R R -	- - - W	T T T T	- - - U	up/down step percentag	低 低 低

Curtain/Roller shutter/Awning

23	Channel 1-Button 1, Dimmer	Switch-On / Off	1 bit	С	R	-	Т	-	switch	低
■≵ 24	Channel 1-Button 1, Dimmer	Stauts switch-On / Off	1 bit	С	-	W	Т	U	switch	低
■25	Channel 1-Button 1, Dimmer	Position-0100%	1 byte	С	R	-	Т	-	percentag	低
■26	Channel 1-Button 1, Dimmer	Status position-010	1 byte	С	-	W	Т	U	percentag	低



Dimming

23	Channel 1-Button 1, Scene Re	ecall / Program		1 byte	С	R	- 1		scene contro	低	
			Scene control								
2 3	Channel 1-Button 1 Display	1 bit				1	bit	С	- WTU	低	

Value display

Figure 7.1 "Channel 1 (Function for button 1) " communication object

22	Channel 1-Blocking func	Unblocking/Blocking	1bit	C, W,T,U				
This comm	unication object is enabled when the para	meter " General functions "	selects " General	" and at the same				
time "Channel 1" selects "Enabled". This communication object is used to switch on/off the blocking function of								
channel 1. Serial numbers (95,168,241,314,387,460,533,606,679, 752,825,898,971,1044,1117) are the same.								
23	Channel 1-Button 1, Switch	On/ off	1bit	С,R, Т				
This communication object is enabled when the parameter " General functions " selects " Channel 1 " and at the same time "Button X" (X=1~12) selects "Enabled", then "Function for button 1" selects "Switch-On" or "Switch-Off". This communication object is used to read the on/off status of the channel 1 lamp.								
23	Channel 1-Button 1, Switch	On/ off	1bit	С,R, Т				
24	Channel 1-Button 1, Status Switch	On/Off	1bit	C, W,T,U				
This comm	unication object is enabled when the para	meter " General functions "	selects " Channel	1 " and at the same				
time "Butt	on X" (X=1~12) selects "Enabled", then	"Function for button 1" sel	cects "Switch-To	ggle". Obj.1: This				
communic	ation object is used to read the on/off statu	s of the channel 1 lamp. Ob	j.2 : This commun	ication object is used				
to send ch	annel 1 on/off message to the bus to contr	ol the on/off of the lamp.						
23	Channel 1-Button 1, Curtain	Open/ Close	1bit	С,R, Т				
24	Channel 1-Button 1, Curtain	Stop / Step	1bit	С,R, Т				
This communication object is enabled when the parameter " General functions " selects " Channel 1 " and at the same time "Button X" (X=1~12) selects "Enabled", then "Function for button 1" selects "Curtain-Open/Close/Stop". Obj.1: This communication object is used to read the on/off status of channel 1 curtains. Obj.2: This communication object is used to read the only off status of channel 1 curtains.								
23	Channel 1-Button 1, Blind	Up/ Down	1bit	C,R, T				
24	Channel 1-Button 1, Blind	Stop / Step	1bit	C,R, T				
25	Channel 1-Button 1, Blind	Position-0100%	1 bytes	C,R, T				



26	Channel 1-Button 1, Blind	Slat-0100%	1 bytes	С,R, Т
27	Channel 1-Button 1, Blind	Status positnn-0100%	1 bytes	C, W,T,U
28	Channel 1-Button 1, Blind	Status slat-0100%	1 bytes	C,W,T,U

This communication object is enabled when the parameter " General functions " selects " Channel 1 " and at the same time "Button X" (X=1~12) selects "Enabled", then "Function for button 1" seleccts "Venetian blinds". Obj.1: This communication object is used to read the up/down status of channel 1 blinds. Obj.2: This communication object is used to read the pause/start status of channel 1 blinds. Obj.3: This communication object is used to read the percentage of channel 1 blinds positions. Obj.4: This communication object is used to read the percentage of channel 1 blinds angle. Obj.5: This communication object is used to send a percentage message of channel 1 to the bus to control the blinds position. Obj.6: This communication object is used to send a percentage message of channel 1 to the bus to control the blinds angle.

23	Channel 1-Button 1, Roller shutter	Up/ Down	1bit	C,R, T
24	Channel 1-Button 1, Roller shutter	Stop / Step	1bit	C,R, T
25	Channel 1-Button 1, Roller shutter	Position-0100%	1 bytes	С,R, Т
26	Channel 1-Button 1, Roller shutter	Status positnn-0100%	1 bytes	C,W,T,U

This communication object is enabled when the parameter " General functions " selects " Channel 1 " and at the same time "Button X" (X=1~12) selects "Enabled", then "Function for button 1" selects "Curtain/Roller shutter/Awning". Obj.1: This communication object is used to read the up/down status of channel 1 roller shutter. Obj.2: This communication object is used to read the pause/start status of channel 1 roller shutter. Obj.3: This communication object is used to read the pause/start status of channel 1 roller shutter. Obj.3: This communication object is used to read the pause/start status of channel 1 roller shutter. Obj.3: This communication object is used to read the pause/start status of channel 1 roller shutter. Obj.4: This communication object is used to send a percentage of channel 1 to the bus to control the roller shutter position.

23	Channel 1-Button 1, Dimmer	Switch-On /off	1bit	C,R, T
24	Channel 1-Button 1, Dimmer	Stauts witch-On /Off	1 bytes	C,W,T,U
25	Channel 1-Button 1, Dimmer	Position-0100%	1bit	C,R, T
26	Channel 1-Button 1, Dimmer	Status position-0100%	1 bytes	C, W,T,U

This communication object is enabled when the parameter " General functions " selects " Channel 1 " and at the same time "Button X" (X=1~12) selects "Enabled", then "Function for button 1" selects "Dimming". Obj.1: This communication object is used to read the on/off status of channel 1 dimmer. Obj.2: This communication object is used to send channel 1 on/off message to the bus to control the on/off of the dimmer. Obj.3: This communication object is used to read the percentage of channel 1 dimmer positions. Obj.4: This communication object is used to send a percentage message of



channel 1 to the bus to control the dimmer.								
23	Channel 1-Button 1, Scene	Recall / Program	1 bytes	C,R, T				
This communication object is enabled when the parameter " General functions " selects " Channel 1 " and at the same								
time "Butto	on X" (X=1~12) selects "Enabled" , then "Fu	Inction for button 1" selects	"Scene control"	This communication				
object is us	sed to send messages for channel 1 scene i	recall.						
23	Channel 1-Button 1 Display	1bit	1bit	C,W,T,U				
This comm	unication object is enabled when the para	meter " General functions "	selects " Channel	1 " and at the same				
time "Butto	on X" (X=1~12) selects "Enabled" , then "Fu	unction for button 1" selects	"Value display"	This communication				
object is used to send a message of the channel 1 display value to the bus and controls the size of the data type.								
Note: The communication object of "Channel X (Function for button Y)" is the same as above (X=1~16,Y=1~12, even if								
the serial number is different)								

7.3 RGB dimming

1294	Channel 1-RGB dimming	Unblocking/Blocking	1 bit	С	2	W	Т	U	enable	低
1295	Channel 1-RGB dimming	Red value	1 byte	С	R	-	Т	-	percentag	低
1296	Channel 1-RGB dimming	Green value	1 byte	С	R	-	Т	-	percentag	低
1297	Channel 1-RGB dimming	Blue value	1 byte	С	R	-	Т	-	percentag	低
1299	Channel 1-RGB dimming, Status	Red value	1 byte	С	-	W	Т	U	percentag	低
■2 1300	Channel 1-RGB dimming, Status	Green value	1 byte	С	-	W	Т	U	percentag	低
1301	Channel 1-RGB dimming, Status	Blue value	1 byte	С	-	W	Т	U	percentag	低

RGB dimming

1313	Channel 1-RGB dimming	Color temperature	2 bytes	С	R	-	Т	-	absolute c 低
1314	Channel 1-RGB dimming, Status	Color temperature	2 bytes	С	-	W	Т	U	absolute c 低
		Absolute color temperature							
1303	Channel 1-RGB dimming	Red value	1 byte	С	R	-	Т	-	percentag 低
■‡ 1304	Channel 1-RGB dimming	Green value	1 byte	С	R	L.	Т	-	percentag 低
1305	Channel 1-RGB dimming	Blue value	1 byte	С	R	-	Т	-	percentag 低
1306	Channel 1-RGB dimming	White value	1 byte	С	R	-	Т	-	percentag 低
1308	Channel 1-RGB dimming, Status	Red value	1 byte	С	-	W	Т	U	percentag 低
1309	Channel 1-RGB dimming, Status	Green value	1 byte	С	2	W	Т	U	percentag 低
■‡ 1310	Channel 1-RGB dimming, Status	Blue value	1 byte	С	-	W	Т	U	percentag 低
2 1311	Channel 1-RGB dimming, Status	White value	1 byte	С	-	W	Т	U	percentag 低

RGBW dimming

1294	Channel 1-RGB dimming	Unblocking/Blocking	1 bit	C, W,T,U
1295	Channel 1-RGB dimming	Red value	1 bytes	C,R, T
1296	Channel 1-RGB dimming	Green value	1 bytes	C,R, T
1297	Channel 1-RGB dimming	Blue value	1 bytes	C,R, T
1299	Channel 1-RGB dimming, Status	Red value	1 bytes	C,W,T,U
1300	Channel 1-RGB dimming, Status	Green value	1 bytes	C, W,T,U



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1301	Channel 1-RGB dimming, Status	Blue value	1 bytes	C, W,T,U			
This communicat	ion object is enabled when the parame	l eter " RGB dimmina " selects " Ge	neral " and at	the same time			
"Channel X" (X=	=1~16) selects "Enabled" then "Dimm	ing type" selects "BGB dimming"	Obi 1 · This	communication			
		to the bus to control the sharped					
object is used to s	end a message with the blocking value	to the bus to control the channel		CKING/BIOCKING.			
Obj.2: This comm	unication object is used to read the stat	tus of the channel 1 RGB red value	e. Obj.3 : This	communication			
object is used to r	ead the status of the channel 1 RGB gre	en value. Obj.4: This communicat	ion object is u	used to read the			
status of the chan	nel 1 RGB blue value. Obj.5: This comr	munication object is used to send	messages of	channel 1 RGB			
red value to the b	us to control RGB dimming. Obj.6: This	s communication object is used to	send messag	ges of channel 1			
RGB green value t	o the bus to control RGB dimming. Ob	j.7: This communication object is	used to send	d messages of			
channel 1 RGB blu	e value to the bus to control RGB dimr	ning.					
1313	Channel 1-RGB dimming	Color temperature	2 bytes	C,R, T			
1314	Channel 1-RGB dimming, Status	Color temperature	2 bytes	C,W,T,U			
This communication object is enabled when the parameter " RGB dimming " selects " General " and at the same time							
"Channel X" (X	=1~16) selects "Enabled" , then "Abso	olute color temperature" selects	"Enabled".	Obj.1: This			
communication of	bject is used to read the status of chan	nel 1 color temperature. Obj.2: T	his communi	cation object is			
used to send char	nnel 1 color temperature messages to t	he bus to control the color tempe	erature.				
1294	Channel 1-RGB dimming	Unblocking/Blocking	1 bit	C, W,T,U			
1303	Channel 1-RGB dimming	Red value	1 bytes	C,R, T			
1304	Channel 1-RGB dimming	Green value	1 bytes	C,R, T			
1305	Channel 1-RGB dimming	Blue value	1 bytes	C,R, T			
1306	Channel 1-RGB dimming	White value	1 bytes	C,R, T			
1308	Channel 1-RGB dimming	Red value	1 bytes	C,W,T,U			
1309	Channel 1-RGB dimming	Green value	1 bytes	C, W,T,U			
1310	Channel 1-RGB dimming	Blue value	1 bytes	C, W,T,U			
1311	Channel 1-RGB dimming	White value	1 bytes	C, W,T,U			

This communication object is enabled when the parameter " RGB dimming " selects " General " and at the same time "Channel X" (X=1~16) selects "Enabled", then "Dimming type" selects "RGBW dimming". Obj.1: This communication object is used to send a message with the blocking value to the bus to control the channel 1 RGBW Unblocking/Blocking. Obj.2: This communication object is used to read the status of the channel 1 RGBW red value. Obj.3: This communication object is used to read the status of the channel 1 RGBW green value. Obj.4: This



communication object is used to read the status of the channel 1 RGBW blue value. Obj.5: This communication object is used to read the status of the channel 1 RGBW white value. Obj.6: This communication object is used to send messages of channel 1 RGBW red value to the bus to control RGBW dimming. Obj.7: This communication object is used to send messages of channel 1 RGBW green value to the bus to control RGBW dimming. Obj.8: This communication object is used to send messages of channel 1 RGBW green value to the bus to control RGBW dimming. Obj.8: This communication object is used to send messages of channel 1 RGBW blue value to the bus to control RGBW dimming. Obj.9: This communication object is used to send messages of channel 1 RGBW blue value to the bus to control RGBW dimming. Obj.9: This communication object is used to send messages of channel 1 RGBW blue value to the bus to control RGBW dimming. Obj.9: This communication object is used to send messages of channel 1 RGBW blue value to the bus to control RGBW dimming. Obj.9: This communication object is used to send messages of channel 1 RGBW blue value to the bus to control RGBW dimming. Obj.9: This communication object is used to send messages of channel 1 RGBW white value to the bus to control RGBW dimming.

Note: The communication object of "Channel X" is the same as above (X=1~16, even if the serial number is different)

7.4 Air conditioner

1630	Channel 1-Air conditoner	Unblocking/Blocking	1 bit	С	ų.	W	Т	U	enable	低
1631	Channel 1-Air conditoner	Switch-On / Off	1 bit	С	R	-	Т	-	switch	低
1632	Channel 1-Air conditoner	Status switch-On / Off	1 bit	С	-	W	Т	U	switch	低
1633	Channel 1-Air conditoner	Operation mode	1 byte	С	R	-	Т	-	HVAC cont	.低
1634	Channel 1-Air conditoner	Status operation mo	1 byte	С	-	W	Т	U	HVAC cont	.低
1635	Channel 1-Air conditoner	Fan speed	1 byte	С	R	-	Т	-	percentag	低
1636	Channel 1-Air conditoner	Status fan speed	1 byte	С	÷	W	Т	U	percentag	低
1637	Channel 1-Air conditoner	Setting temperature	2 bytes	С	R	-	Т	-	temperatu	低
1638	Channel 1-Air conditoner	Status setting tempe	2 bytes	С	-	W	Т	U	temperatu	低
1639	Channel 1-Air conditoner	Actual temperature	2 bytes	С	-	W	Т	U	temperatu	低
■≵ 1640	Channel 1-Air conditoner	Fault code-1 byte	1 byte	С	-	W	Т	U		低
1641	Channel 1-Air conditoner	Fault code-2 byte	2 bytes	С	-	W	Т	U		低

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1630	Channel 1-Air conditioner	Unblocking/Blocking	1 bit	C,W,T,U
1631	Channel 1-Air conditioner	Switch-on/of	1 bit	C,R, T
1632	Channel 1-Air conditioner	Status switch-On/ Off	1 bit	C,W,T,U
1633	Channel 1-Air conditioner	Operation mode	1bytes	C,R, T
1634	Channel 1-Air conditioner	Status operation mode	1bytes	C, W,T,U
1635	Channel 1-Air conditioner	Fan speed	1bytes	C,R, T
1636	Channel 1-Air conditioner	Status fan speed	1bytes	C,W,T,U
1637	Channel 1-Air conditioner	Setting temperature	2bytes	С,R, Т
1638	Channel 1-Air conditioner	Status setting temperature	2bytes	C,W,T,U

This communication object is enabled when the parameter " Air conditioner " selects " General " and at the same time "Channel X" (X=1~16) selects "Enabled" . Obj.1: This communication object is used to send a message with the blocking value to the bus to control the unblocking/blocking for the air conditioner channel 1. Obj.2: This communication object is used to read the on/off status of Channel 1 AC. Obj.3: This communication object is used to

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send the channel 1 air conditioner switch on/off message to the bus to control the air conditioner on/off. Obj.4: This communication object is used to read the status of the channel 1 air conditioner operation mode. Obj.5: This communication object is used to send a message for channel 1 air conditioner operation mode to the bus to control the mode of the air conditioner. Obj.6: This communication object is used to read the fan speed status of air conditioner channel 1. Obj.7: This communication object is used to send a fan speed message for channel 1 air conditioner to the bus to control the air conditioner fan speed.Obj.8: This communication object is used to read the status of the channel 1 air conditioner setting temperature. Obj.9: This communication object is used to send a message to the bus for the setting temperature of the channel 1 air conditioner to control the temperature.

1639	Channel 1-Air conditioner	Actual temperature	2bytes	C,W,T,U		
This communication object is enabled when the parameter " Air conditioner " selects " General " and at the same time						
"Channel X"	"Channel X" (X=1~16) selects "Enabled", then "Temperature source" selects "External sensor". This communication					
object is used	l to send a message of the actual ten	nperature for channel 1 air cono	litioner to the bus	to control the		
temperature of the air conditioner.						
1640	Channel 1-Air conditioner	Fault code-1 byte	1bytes	C,W,T,U		
1641	Channel 1-Air conditioner	Fault code-2 byte	2bytes	С WTU		

This communication object is enabled when the parameter " Air conditioner " selects " General " and at the same time "Channel X" (X=1~16) selects "Enabled", then "Fault code" selects "1-byte" / "1-byte". This communication object is used to send a message with a 1-byte/2-byte fault code for channel 1 AC to the bus, controlling the byte size of the fault code.

Note: The communication object of " Channel X-Air conditioner " is the same as above (X=1~16).

7.5 Floor heating

1822	Channel 1-Floor heating	Unblocking/Blocking	1 bit	С	-	W	Т	U	enable	低
1823	Channel 1-Floor heating	Relay control-On / Off	1 bit	С	R	-	Т	-	switch	低
■≵ 1824	Channel 1-Floor heating	Status relay-On / Off	1 bit	C	-	W	Т	U	switch	低
1825	Channel 1-Floor heating	Actual temperature	2 bytes	С	-	W	Т	U	temperatu	低
1826	Channel 1-Floor heating	Setting temp-Input	2 bytes	С	-	W	Т	U	temperatu	低
1827	Channel 1-Floor heating	Setting temp-Output	2 bytes	С	R	-	Т	-	temperatu	低
1828	Channel 1-Floor heating	Func switch-Input	1 bit	C	-	W	Т	U	switch	低
1829	Channel 1-Floor heating	Func switch-Output	1 bit	С	R	-	Т	-	switch	低
1830	Channel 1-Floor heating, High temp alar	. Externa temperature	2 bytes	С	-	W	Т	U	temperatu	低
1831	Channel 1-Floor heating, High temp alar	.Send alarm	1 bit	С	R	-	Т	-	alarm	低
1832	Channel 1-Floor heating, Frost protection	External temperature	2 bytes	С	-	W	Т	U	temperatu	低
1833	Channel 1-Floor heating, Frost protection	Send alarm	1 bit	С	R	-	Т	-	alarm	低

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1822	Channel 1-Floor heating	Unblocking/Blocking	1 bit	C,W,T,U
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This com	This communication object is enabled when the parameter " Floor heating " selects " General " and at the same time				
"Chann	el X" (X=1~16) selects "Enabled" . This comn	nunication object is used to	back feed the blo	ocking value message	
of the flo	por heating channel 1 to the bus.				
1823	Channel 1-Floor heating	Relay control-On/ Off	1 bit	С,R, Т	
This com	nmunication object is enabled when the para	meter " Floor heating " sele	ects " General " ar	nd at the same time	
"Chann	el X" (X=1~16) selects "Enabled" , then "Re	lay switch" selects "Enable	d" . This commun	ication object is used	
to send t	the relay on/off status for floor heating chan	nel 1.			
1824	Channel 1-Floor heating	Status relay-On/ Off	1 bit	C, W,T,U	
This com	munication object is enabled when the para	meter " Floor heating " sele	ects " General " ar	nd at the same time	
"Chann	el X" (X=1~16) selects "Enabled", then "F	Relay switch" and "Status r	elay switch" sele	ct "Enabled" . This	
commun	ication object is used to back feed the switcl	h status message of floor h	eating channel 1	to the bus.	
1825	Channel 1-Floor heating	Actual temperature	2bytes	C, W,T,U	
This com	munication object is enabled when the para	meter " Floor heating " sele	ects " General " ar	nd at the same time	
"Chann	el X" (X=1~16) selects "Enabled" , then "Ter	mperature source" selects "	'External sensor"	. This communication	
object is	used to back feed the status message of the	e actual temperature for floo	or heating channe	el 1 to the bus.	
1826	Channel 1-Floor heating	Setting temp-Input	2bytes	C, W,T,U	
1826 1827	Channel 1-Floor heating Channel 1-Floor heating	Setting temp-Input Setting temp-Output	2bytes 2bytes	C, W,T,U C,R, T	
1826 1827 This com	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para	Setting temp-Input Setting temp-Output meter " Floor heating " sele	2bytes 2bytes ects " General " ar	C, W,T,U C,R, T nd at the same time	
1826 1827 This com "Chann	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled" , then "Set	Setting temp-Input Setting temp-Output meter " Floor heating " sele ting temperature" selects '	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1 :	C, W,T,U C,R, T nd at the same time This communication	
1826 1827 This com "Chann object is	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled" , then "Set used to back feed the status message of the	Setting temp-Input Setting temp-Output meter " Floor heating " select ting temperature" selects ' setting input temperature	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1: for floor heating	C, W,T,U C,R, T and at the same time This communication channel 1 to the bus.	
1826 1827 This com "Chann object is Obj.2:Th	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Set used to back feed the status message of the his communication object is used to send the	Setting temp-Input Setting temp-Output meter " Floor heating " select ting temperature" selects ' setting input temperature status of the setting output	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1 : for floor heating temperature for	C, W,T,U C,R, T nd at the same time This communication channel 1 to the bus. floor heating channel	
1826 1827 This com "Chann object is Obj.2:Th 1.	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Set used to back feed the status message of the his communication object is used to send the	Setting temp-Input Setting temp-Output meter " Floor heating " select ting temperature" selects ' setting input temperature status of the setting output	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1: for floor heating temperature for	C, W,T,U C,R, T and at the same time This communication channel 1 to the bus. floor heating channel	
1826 1827 This com "Chann object is Obj.2:Th 1. 1828	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Set used to back feed the status message of the his communication object is used to send the Channel 1-Floor heating	Setting temp-Input Setting temp-Output meter " Floor heating " select ting temperature" selects " setting input temperature status of the setting output Func switch-Input	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1 : for floor heating temperature for 1 bit	C, W,T,U C,R, T and at the same time This communication channel 1 to the bus. floor heating channel C, W,T,U	
1826 1827 This com "Chann object is Obj.2:Th 1. 1828 1829	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Set used to back feed the status message of the his communication object is used to send the Channel 1-Floor heating Channel 1-Floor heating	Setting temp-Input Setting temp-Output meter " Floor heating " select ting temperature" selects ' setting input temperature status of the setting output Func switch-Input Func switch-Output	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1 : for floor heating temperature for 1 bit 1 bit	C, W,T,U C,R, T d at the same time This communication channel 1 to the bus. floor heating channel C, W,T,U C,R, T	
1826 1827 This com "Chann object is Obj.2:Th 1. 1828 1829 This com	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Set used to back feed the status message of the his communication object is used to send the Channel 1-Floor heating Channel 1-Floor heating	Setting temp-Input Setting temp-Output meter " Floor heating " select ting temperature" selects ' setting input temperature status of the setting output Func switch-Input Func switch-Output meter " Floor heating " select	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1: for floor heating temperature for 1 bit 1 bit 1 bit ects " General " ar	C, W,T,U C,R, T d at the same time This communication channel 1 to the bus. floor heating channel C, W,T,U C,R, T d at the same time	
1826 1827 This com "Chann object is Obj.2:Th 1. 1828 1829 This com "Chann	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Set used to back feed the status message of the is communication object is used to send the Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Setti	Setting temp-Input Setting temp-Output meter " Floor heating " select ting temperature" selects " setting input temperature status of the setting output Func switch-Input Func switch-Output meter " Floor heating " selects ng function switch" selects	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1 : for floor heating temperature for 1 bit 1 bit 1 bit ects " General " ar "Enabled" . Obj.1	C, W,T,U C,R, T d at the same time This communication channel 1 to the bus. floor heating channel C, W,T,U C,R, T d at the same time : This communication	
1826 1827 This com "Chann object is Obj.2:Th 1. 1828 1829 This com "Chann object is	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Set used to back feed the status message of the his communication object is used to send the Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Setti used to back feed the status message of the	Setting temp-Input Setting temp-Output meter " Floor heating " select ting temperature" selects ' setting input temperature status of the setting output Func switch-Input Func switch-Output meter " Floor heating " selects e setting input switch functi	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1 : for floor heating temperature for 1 bit 1 bit 1 bit ects " General " ar "Enabled" . Obj.1 on for floor heati	C, W,T,U C,R, T d at the same time This communication channel 1 to the bus. floor heating channel C, W,T,U C,R, T d at the same time This communication ng channel 1 to the	
1826 1827 This com "Chann object is Obj.2:Th 1. 1828 1829 This com "Chann object is bus. Obj.	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Set used to back feed the status message of the is communication object is used to send the Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Setti used to back feed the status message of the 2: This communication object is used to sen	Setting temp-Input Setting temp-Output meter " Floor heating " select ting temperature" selects ' setting input temperature status of the setting output Func switch-Input Func switch-Output meter " Floor heating " selects e setting input switch function d the status of the setting o	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1: for floor heating temperature for 1 bit 1 bit 1 bit ects " General " ar "Enabled" . Obj.1 on for floor heati utput switch func	C, W,T,U C,R, T d at the same time This communication channel 1 to the bus. floor heating channel C, W,T,U C,R, T d at the same time This communication ng channel 1 to the ction for floor heating	
1826 1827 This com "Chann object is Obj.2:Th 1. 1828 1829 This com "Chann object is bus. Obj. channel	Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Set used to back feed the status message of the is communication object is used to send the Channel 1-Floor heating Channel 1-Floor heating munication object is enabled when the para el X" (X=1~16) selects "Enabled", then "Setti used to back feed the status message of the 2: This communication object is used to sen 1.	Setting temp-Input Setting temp-Output meter " Floor heating " select ting temperature" selects " setting input temperature status of the setting output Func switch-Input Func switch-Output meter " Floor heating " selects eng function switch" selects e setting input switch function d the status of the setting of	2bytes 2bytes ects " General " ar 'Enabled" . Obj.1 : for floor heating temperature for 1 bit 1 bit 1 bit ects " General " ar "Enabled" . Obj.1 on for floor heati utput switch func	C, W,T,U C,R, T d at the same time This communication channel 1 to the bus. floor heating channel C, W,T,U C,R, T d at the same time This communication ng channel 1 to the ction for floor heating	

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This com	This communication object is enabled when the parameter " Floor heating " selects " General " and at the same time					
"Chann	"Channel X" (X=1~16) selects "Enabled", then "High temperature alarm" selects "Enabled" and "Temperature source					
from the	third" selects "Yes" . This communication ob	ject is used to back feed bac	ck the status mes	sage to the bus when		
the exter	nal temperature is selected for the high tem	perature alarm function of t	floor heating cha	nnel 1.		
1831	Channel 1-Floor heating, High temp alarm	Send alarm	1 bit	С,R, Т		
This cor	nmunication object is enabled when the para	ameter " Floor heating " sel	ects " General " a	ind at the same time		
"Chann	el X" (X=1~16) selects "Enabled" , then "H	ligh temperature alarm"se	lects "Enabled"	. This communication		
object is	used to send the status of the alarm sent by	the high temperature alarr	n function of floc	or heating channel 1.		
1832	Channel 1-Floor heating, Frost protection	External temperature	2bytes	C, W,T,U		
1833	Channel 1-Floor heating, Frost protection	Send alarm	1 bit	C,R, T		
This com	imunication object is enabled when the para	meter " Floor heating " sele	cts " General " ar	nd at the same time		
"Chann	el X" (X=1~16) selects "Enabled" , then "Fro	st protection" selects "Enak	oled" and "Tem	perature source from		
the third" selects "Yes". Obj.1: This communication object is used to back feed a status message to the bus when the						
external temperature is selected for the frost protection function of floor heating channel 1. Obj.2: This communication						
object is used to send the status of the frost protection function sending alarm for floor heating channel 1.						
Note:	Note: The communication object of " Channel X- Floor heating " is the same as above (X=1~16)					

7.6 Ventilation system

2046	Channel 1-Ventilation system	Unblocking/Blocking	1 bit C - W T U enable 低
2047	Channel 1-Ventilation system	Fan speed 1	1 bit C R - T - switch 低
2048	Channel 1-Ventilation system	Fan speed 2	1 bit C R - T - switch 低
2049	Channel 1-Ventilation system	Fan speed 3	1 bit C R - T - switch 低
2050	Channel 1-Ventilation system	Status fan speed 1	1 bit C - W T U switch 低
2051	Channel 1-Ventilation system	Status fan speed 2	1 bit C - W T U switch 低
2052	Channel 1-Ventilation system	Status fan speed 3	1 bit C - W T U switch 低
2053	Channel 1-Ventilation system	Fan speed-1byte	1 hvte C R - T - nercentag 任
2054	Channel 1-Ventilation system	Status fan speed-1byte	1 byte C - W T II percentag 任
2055	Channel 1-Ventilation system	Actual temperature	2 bytes C - W T U temperatu 任
-+12000	chamler r ventilation system	Actual temperature	2 bytes c w i o temperata ita
2056	Channel 1-Ventilation system	Setting fan speed-In	1 byte C - W T U percentag 低
2057	Channel 1-Ventilation system	Setting fan speed-O	1 byte C R - T - percentag 低
2058	Channel 1-Ventilation system	Func switch-Input	1 bit C - W T U switch 低
2059	Channel 1-Ventilation system	Func switch-Output	1 bit C R - T - switch 低
2063	Channel 1-Ventilation system	Filter time reset	1 bit C - W T U reset 低
2064	Channel 1-Ventilation system	Filter time alarm	1 bit C R - T - alarm 低
2065	Channel 1-Ventilation system	Filter time counter	2 bytes C R - T - time (h) 低
2066	Channel 1-Ventilation system	Auto mode-Dis./En.	1 bit C - W T U enable 低
■2067	Channel 1-Ventilation system	PM2.5 value	2 bytes C - W T U 低

Figure 7.6



2046	Channel 1-Ventilation system	Unblocking/Blocking	1bit	C, W,T,U
2047	Channel 1-Ventilation system	Fan speed 1	1bit	C,R, T
2048	Channel 1-Ventilation system	Fan speed 2	1bit	C,R, T
2049	Channel 1-Ventilation system	Fan speed 3	1bit	C,R, T

This communication object is enabled when the parameter "Ventilation system " selects " General " and at the same time "Channel X" (X=1~16) selects "Enabled". Obj.1: This communication object is used to back feed the blocking value message of the ventilation system channel 1 to the bus. Obj.2: This communication object is used to send the fan speed 1 status of the ventilation system channel 1. Obj.3: This communication object is used to send the fan speed 2 status of the ventilation system channel 1. Obj.4: This communication object is used to send the fan speed 3 status of the ventilation system channel 1. Obj.4: This communication object is used to send the fan speed 3 status of the ventilation system channel 1. Obj.4: This communication object is used to send the fan speed 3 status of the ventilation system channel 1.

2050	Channel 1-Ventilation system	Status fan speed 1	1bit	C,W,T,U
2051	Channel 1-Ventilation system	Status fan speed 2	1bit	C,W,T,U
2052	Channel 1-Ventilation system	Status fan speed 3	1bit	C,W,T,U

This communication object is enabled when the parameter "Ventilation system " selects " General " and at the same time "Channel X" (X=1~16) selects "Enabled", then "Data type of Fan speed control" selects "1 bit" and "Status fan speed control for 1 bit" selects " "Enabled". Obj.1: This communication object is used to back feed the fan speed 1 message of the ventilation system channel 1 to the bus. Obj.2: This communication object is used to back feed the fan speed 2 message of the ventilation system channel 1 to the bus. Obj.3: This communication object is used to back feed the fan speed the fan speed 3 message of the ventilation system channel 1 to the bus.

2053	Channel 1-Ventilation system	Fan speed-1byte	1byte	C,R, T		
This communication object is enabled when the parameter " Ventilation system " selects " General " and at the same						
time "Channel X" (X=1~16) selects "Enabled" and "Data type of Fan speed control" selects "1 byte". This						
communication object is used to send the fan speed status for channel 1 of the ventilation system.						
2054	Channel 1-Ventilation system	Status fan speed-1byte	1byte	C, W,T,U		

This communication object is enabled when the parameter "Ventilation system "selects "General " and at the same time "Channel X" (X=1~16) selects "Enabled", then "Data type of Fan speed control" selects "1 byte" and "Status fan speed control for 1byte" selects " "Enabled". This communication object is used to back feed the fan speed messages of the ventilation system channel 1 to the bus.

2055	Channel 1-Ventilation system	Actual temperature	2byte	C,W,T,U		
This communication object is enabled when the parameter " Ventilation system " selects " General " and at the same						

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time "Channel X" (X=1~16) selects "Enabled", then "Data type of Fan speed control" selects "1 byte" and "Temperature source" selects " "External sensor". This communication object is used to back feed the actual temperature message for channel 1 of the ventilation system to the bus.

2056	Channel 1-Ventilation system	Setting fan speed-Input	1byte	C,W,T,U
2057	Channel 1-Ventilation system	Setting fan speed-output	1byte	С,R, Т

This communication object is enabled when the parameter "Ventilation system "selects "General " and at the same time "Channel X" ($X=1\sim16$) and "Setting fan speed" select "Enabled". Obj.1: This communication object is used to back feed the setting inlet fan speed message of ventilation system channel 1 to the bus.Obj.2: This communication object is used to send the setting outlet fan speed status of ventilation system channel 1.

2058	Channel 1-Ventilation system	Func switch-Input	1bit	C, W,T,U
2059	Channel 1-Ventilation system	Func switch-Output	1bit	C,R, T

This communication object is enabled when the parameter "Ventilation system "selects "General " and at the same time "Channel X" ($X=1\sim16$) and "Setting function switch" select "Enabled". Obj.1: This communication object is used to back feed the inlet fan switch messages of ventilation system channel 1 to the bus. Obj.2: This communication object is used is used to send the status of the outlet fan switch for ventilation system channel 1.

2060	Channel 1-Ventilation system	Heat exchange-Switch	1bit	С,R, Т
2061	Channel 1-Ventilation system	Heat exchange-Status	1bit	C, W,T,U
		switch		
2062	Channel 1-Ventilation system	Heat exchange-Dis./En.	1bit	C,W,T,U

This communication object is enabled when the parameter "Ventilation system "selects "General " and at the same time "Channel X" ($X=1\sim16$) selects "Enabled", then "Heat exchange function "selects "Disabled=0/Enabled=1 " or " Disabled=1/Enabled=0". Obj.1: This communication object is used to send the heating exchange status of channel 1 for the ventilation system. Obj.2: This communication object is used to back feed the heat exchange messages of the ventilation system channel 1 to the bus. Obj.3: This communication object is used to back feed the Disabled/Enabled message of the heat exchange for the ventilation system channel 1 to the bus.

2063	Channel 1-Ventilation system	Filter time reset	1bit	C, W,T,U
2064	Channel 1-Ventilation system	Filter time alarm	1bit	C,R, T,
2065	Channel 1-Ventilation system	Filter time counter	2byte	C,R, T,
This communication object is enabled when the parameter " Ventilation system " selects " General " and at the same				
time "Channel X" (X=1~16) selects "Enabled" then "Heat exchange function " selects "Disabled=0/Enabled=1 " or "				



Disabled=1/Enabled=0". Obj.1: This communication object is used to back feed the message of the filter time reset of the ventilation system channel 1 to the bus.Obj.2: This communication object is used to send the filter time alarm status of channel 1 of the ventilation system. Obj.3: This communication object is used to send the status of the filter time counter for channel 1 of the ventilation system.

2066	Channel 1-Ventilation system	Auto mode-Dis. /Fn.	1byte	C,W,T,U
2067	Channel 1-Ventilation system	PM2.5 value	2byte	C,W,T,U
2068	Channel 1-Ventilation system	CO2 value	2byte	C, W,T,U
2069	Channel 1-Ventilation system	HCHO value	2byte	C, W,T,U
2070	Channel 1-Ventilation system	TVOC value	2byte	C, W,T,U

This communication object is enabled when the parameter "Ventilation system " selects " General " and at the same time "Channel X" (X=1~16) and "Auto. fan speed function " select "Enabled" . Obj.1: This communication object is used to back feed the auto mode on/off message of the ventilation system channel 1 to the bus. Obj.2: This communication object is used to feed the PM2.5 value message for channel 1 of the ventilation system to the bus. Obj.3: This communication object is used to feed the CO2 value message for channel 1 of the ventilation system to the bus. Obj.4: This communication object is used to feed the HCHO value message for channel 1 of the ventilation system to the bus. Obj.5: This communication object is used to feed the TVOC value message for channel 1 of the ventilation system to the bus.

Note: The communication object of " Channel X- Ventilation system " is the same as above (X=1~16).

7.7 HVAC function

•	-		
■2462	Channel 1-HVAC	Unblocking/Blocking	1 bit C - W T U enable 低
2463	Channel 1-HVAC	Heat control-1bit	1 bit C R - T - switch 低
2464	Channel 1-HVAC	Status heat control-1	1 bit C - W T U switch 低
2465	Channel 1-HVAC	Heat control-1byte	1 byte C R - T - percentag 低
2466	Channel 1-HVAC	Status heat control-1	1 byte C - W T U percentag 低
2467	Channel 1-HVAC	Cool control-1bit	1 bit C R - T - switch 低
■≵ 2468	Channel 1-HVAC	Status cool control-1	1 bit C - W T U switch 低
2469	Channel 1-HVAC	Cool control-1byte	1 byte C R - T - percentag 低
2470	Channel 1-HVAC	Status cool control-1	1 byte C - W T U percentag 低
- 1			
2471	Channel 1-HVAC	Heat/Cool control-1bit	1 bit C R - T - switch 低
2472	Channel 1-HVAC	Status heat/cool con	1 bit C - W T U switch 低



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2473	Channel 1-HVAC	Heat/Cool control-1b	1 byte C R - T - percentag低
2474	Channel 1-HVAC	Status heat/cool con	1 byte C - W T U percentag 低
2475	Channel 1-HVAC	Fan speed 1	1 bit C R - T - switch 低
2476	Channel 1-HVAC	Fan speed 2	1 bit C R - T - switch 低
2477	Channel 1-HVAC	Fan speed 3	1 bit C R - T - switch 低
2478	Channel 1-HVAC	Status fan speed 1	1 bit C - W T U switch 低
2479	Channel 1-HVAC	Status fan speed 2	1 bit C - W T U switch 低
2480	Channel 1-HVAC	Status fan speed 3	1 bit C - W T U switch 低
2484	Channel 1-HVAC	Heat and cool mode	1 bit C - W T U cooling/he低
2485	Channel 1-HVAC	Heat and cool mode	1 bit C R - T - cooling/he低
2486	Channel 1-HVAC	Heat and cool mode	1 byte C - W T U HVAC cont低
2487	Channel 1-HVAC	Heat and cool mode	1 byte C R - T - HVAC cont低
2488	Channel 1-HVAC	HVAC mode-Input	1 byte C - W T U HVAC mode 低
2489	Channel 1-HVAC	HVAC mode-Output	1 byte C R - T - HVAC mode低
2490	Channel 1-HVAC	Setting fan speed-In	1 byte C - W T U percentag 低
2491	Channel 1-HVAC	Setting fan speed-O	1 byte C R - T - percentag 低
2492	Channel 1-HVAC	Func switch-Input	1 bit C - W T U switch 低
2493	Channel 1-HVAC	Func switch-Output	1 bit C R - T - switch 低
2494	Channel 1-HVAC	Setting temp-Input	2 bytes C - W T U temperatu低
2495	Channel 1-HVAC	Setting temp-Output	2 bytes C R - T - temperatu低

Figure 7.7

2462	Channel 1-HVAC	Unblocking/Blocking	1bit	C,W,T,U		
This communicati	ion object is enabled when th	ne parameter " HVAC function " select	s " General "	and at the same time		
"Channel X" (X=	1~16) selects "Enabled" . O	bj.1: This communication object is use	ed to back fe	ed the blocking value		
message of air cor	nditioner channel 1 to the bu	S.				
2463	Channel 1-HVAC	Heat control-1bit	1bit	C,R,T,		
2464	Channel 1-HVAC	Status heat Control-1bit	1bit	C,W,T,U		
This communication	on object is enabled when th	e parameter " HVAC function " selects	" General " a	and at the same time		
"Channel X" (X=	1~16) and " Heat/cool cont	rol " select "Enabled" . Obj.1 : This com	munication o	object is used to send		
the heating status	of air conditioner channel 1	via 1 bit. Obj.2: This communication	object is used	d to back feed the		
heating message o	of the air conditioner channe	l 1 to the bus via 1bit.				
2465	Channel 1-HVAC	Heat control-1byte	1byte	С,R, Т		
2466	2466 Channel 1-HVAC Status heat control-1byte 1byte C,W,T,U					
This communication object is enabled when the parameter " HVAC function " selects " General " and at the same time						
"Channel X" (X=1~16) and " Heat/cool control " select "Enabled" , then "Type of HVAC control " selects "Heating "						

and "Method of heating control" selects "Continuous control(use Pl control)". Obj.1: This communication object is used

to send the heating status of air conditioner channel 1 via 1 byte. Obj.2: This communication object is used to back feed

the heating message of the air conditioner channel 1 to the bus via 1byte.



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2467	Channel 1-HVAC	Cool control-1bit	1bit	C,R, T
2468	Channel 1-HVAC	Status Cool control-1bit	1bit	C,W,T,U
This communication object is enabled when the parameter " HVAC function " selects " General " and at the same time				
"Channel X" (X=1~16) and "Heat/cool control "select "Enabled" and "Type of HVAC control "selects "Cooling "				
Obj.1: This communication object is used to send the cooling status of air conditioner channel 1 via 1bit. Obj.2: This				
communication object is used to back feed the cooling message of the air conditioner channel 1 to the bus via 1bit.				

2469	Channel 1-HVAC	Cool control-1byte	1byte	C,R, T
2470	Channel 1-HVAC	Status Cool control-1byte	1byte	C,W,T,U

This communication object is enabled when the parameter "HVAC function " selects " General " and at the same time "Channel X" (X=1~16) and " Heat/cool control " select "Enabled", then "Type of HVAC control " selects "Cooling " and "Method of cooling control" selects "Continuous control(use PI control) ". Obj.1: This communication object is used to send the cooling status of air conditioner channel 1 via 1byte. Obj.2: This communication object is used to feedback the cooling message of the air conditioner channel 1 to the bus via 1byte.

2471	Channel 1-HVAC	Heat/Cool control-1bit	1bit	C,R, T
2472	Channel 1-HVAC	Status heat/Cool control-1bit	1bit	C,W,T,U

This communication object is enabled when the parameter "HVAC function " selects " General " and at the same time "Channel X" (X=1~16) and " Heat/cool control " select "Enabled", then "Type of HVAC control " selects "Heating and Cooling" and "Control system" selects "2 pipes system " . Obj.1: This communication object is used to send the heating/cooling status of air conditioner channel 1 via 1bit. Obj.2: This communication object is used to back feed the heating/cooling messages of the air conditioner channel 1 to the bus via 1bit.

2473	Channel 1-HVAC	Heat/Cool control-1byte	1byte	C,R, T
2474	Channel 1-HVAC	Status heat/Cool control-1byte	1byte	C, W,T,U

This communication object is enabled when the parameter "HVAC function " selects " General " and at the same time "Channel X" (X=1~16) and " Heat/cool control " select "Enabled", then "Type of HVAC control " selects "Heating and Cooling" and "Control system" selects "2 pipes system ", "Method of heating/cool control" selects "Continuous control(use Pl control) ". Obj.1: This communication object is used to send the heating/cooling status of air conditioner channel 1 via 1byte. Obj.2: This communication object is used to back feed the heating/cooling messages of the air conditioner channel 1 to the bus via 1byte.

2475	Channel 1-HVAC	Fan speed 1	1bit	C,R, T
2476	Channel 1-HVAC	Fan speed 2	1bit	С,R, Т



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2477	Channel 1-HVAC	Fan speed 3	1bit	C,R, T					
This communication object is enabled when the parameter " HVAC function " selects " General " and at the same time									
"Channel X" (X=	1~16) and " Fan speed cont	rol " select "Enabled" . Obj.1: This com	munication o	object is used to send					
the status of fan sp	peed 1 of air conditioner char	nnel 1. Obj.2: This communication obje	ct is used to s	send the status of fan					
speed 2 of air con	ditioner channel 10bj. 3: Th	is communication object is used to se	nd the status	of fan speed 3 of air					
conditioner chann	el 1.								
2478	Channel 1-HVAC	Status fan speed 1	1bit	C, W,T,U					
2479	Channel 1-HVAC	Status fan speed 2	1bit	C,W,T,U					
2480	Channel 1-HVAC	Status fan speed 3	1bit	C, W,T,U					
This communication	on object is enabled when th	e parameter " HVAC function " selects	" General " a	and at the same time					
"Channel X" (X=	1~16) and "Fan speed cor	trol "select "Enabled", then " Dataty	ype for fan sp	eed control " selects					
"1bit " and "Statu	us fan speed control for 1bit"	selects " "Enabled " . Obj.1: This com	munication o	object is used to back					
feed the fan speec	I message 1 of air conditione	er channel 1 to the bus via 1byte. Obj.2	2: This comn	nunication object is					
used to back feed	the fan speed message 2 of a	ir conditioner channel 1 to the bus via	1byte. Obj.3	This communication					
object is used to b	ack feed the fan speed mess	age 3 of air conditioner channel 1 to t	he bus via 1k	oyte.					
2481	Channel 1-HVAC	Fan speed-1byte	1byte	C,R, T					
This communication object is enabled when the parameter " HVAC function " selects " General " and at the same time									
"Channel X" (X=1~16) and " Fan speed control " select "Enabled" , then " Datatype for fan speed control " selects									
"1byte ". Obj.1: This communication object is used to send the fan speed status of air conditioner channel 1 via 1byte.									
2482	2482 Channel 1-HVAC Status fan speed-1byte 1byte C, W,T,U								
This communication object is enabled when the parameter " HVAC function " selects " General " and at the same time									

"Channel X" (X=1~16) and "Fan speed control "select "Enabled", then "Datatype for fan speed control "selects "1byte " and "Status fan speed control for 1byte" selects " "Enabled " . Obj.1: This communication object is used to back feed the fan speed message of air conditioner channel 1 to the bus via 1byte.

2483	Channel 1-HVAC	Actual temperature	2byte	C,W,T,U			
This communication object is enabled when the parameter " HVAC function " selects " General " and at the same time							
"Channel X" (X=	1~16) select "Enabled" a	nd "Indoor temperature source" se	lects "Extern	al sensor". Obj.1:			
This communication object is used to back feed the actual temperature message of the air conditioner channel 1 to the							
bus via 1byte.							
2484	Channel 1-HVAC	Heat and cool mode-Input	1bit	C,W,T,U			



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2485	Channel 1-HVAC	Heat and cool mode-Output	1bit	C,R, T			
This communication	This communication object is enabled when the parameter " HVAC function " selects " General " and at the same time						
"Channel X" (X=	-1~16) and "Setting heat/	cool mode " select "Enabled" , then	" Data type	for setting heat/cool			
model " selects "	1bit ". Obj.1: This commun	ication object is used to back feed the	heating and	cooling input mode			
messages of air co	nditioner channel 1 to the b	us . Obj.2: This communication object	t is used to s	end the status of the			
heating and coolir	ng output modes of air cond	itioner channel 1.					
2486	Channel 1-HVAC	Heat and cool mode-Input-byte	1byte	C, W,T,U			
2487	Channel 1-HVAC	Heat and cool mode-Output-byte	1byte	C,R, T			
This communication object is enabled when the parameter " HVAC function " selects " General " and at the same time							
"Channel X" (X=1~16) and " Setting heat/cool mode " select "Enabled", then " Data type for setting heat/cool							
model " selects "	1byte " . Obj.1: This commu	inication object is used to back feed th	e heating and	d cooling input mode			

messages of air conditioner channel 1 to the bus via 1byte. Obj.2: This communication object is used to send the heating and cooling output mode status of air conditioner channel 1 via 1byte.

2488	Channel 1-HVAC	HVAC mode-Input	1byte	C,W,T,U
2489	Channel 1-HVAC	HVAC mode-Output	1byte	C,R, T

This communication object is enabled when the parameter "HVAC function " selects " General " and at the same time "Channel X" (X=1~16) and " Setting HVAC mode " select "Enabled" . Obj.1: This communication object is used to back feed the air conditioner input mode message of air conditioner channel 1 to the bus via a 1byte.Obj.2: This communication object is used to send the air conditioner output mode status of air conditioner channel 1 via 1byte.

2490	Channel 1-HVAC	Setting fan speed-Input	1byte	C, W,T,U
2491	Channel 1-HVAC	Setting fan speed-Output	1byte	C,R, T

This communication object is enabled when the parameter "HVAC function " selects " General " and at the same time "Channel X" (X=1~16) and " Setting fan speed " select "Enabled" . Obj.1: This communication object is used to back feed the setting input fan speed message of air conditioner channel 1 to the bus via 1byte. Obj.2: This communication object is used to send the status of the setting output fan speed of air conditioner channel 1 via 1byte.

2492	Channel 1-HVAC	Func switch-Input	1bit	C,W,T,U	
2493	Channel 1-HVAC	Func switch-Output	1bit	С,R, Т	
This communication	on object is enabled when th	e parameter " HVAC function " selects	" General " a	and at the same time	
"Channel X" (X=1~16) and " Setting function switch " select "Enabled" . Obj.1: This communication object is used					
to back feed the setting input switch function message of air conditioner channel 1 to the bus via 1byte.Obj.2: This					



communication object is used to send the status of the setting output switch function of air conditioner channel 1 via					
1byte.					
2494	Channel 1-HVAC	Setting temp-Input	2bytes	C, W,T,U	
2495	Channel 1-HVAC	Setting temp-Output	2bytes	С,R, Т	
This communication	on object is enabled when th	e parameter " HVAC function " selects	" General " a	and at the same time	
"Channel X" (X=	1~16) and "Setting tempe	rature "select "Enabled" . Obj.1: Thi	s communica	tion object is used to	
back feed the setti	ng input temperature messa	ge of air conditioner channel 1 to the	bus via 1byte	e. Obj.2:This	
communication object is used to send the status of the setting output temperature of air conditioner channel 1 via					
1byte.					
Note: The comm	unication object of " Channe	el X- HVAC " is the same as above (X=	1~16).		

7.8 Background music

2 3006	Channel 1-Backgro Unblocking/Blocking	1 bit	C	-	W	Т	U	enable	低
₹ 3007	Channel 1-Backgro Power switch	1 bit	C	R	-	Т	-	switch	低
3008	Channel 1-Backgro Status power switch	1 bit	С	-	W	Т	U	switch	低
3009	Channel 1-Backgro Play / Pause	1 bit	С	R	-	Т	-	start/stop	低
3010	Channel 1-Backgro Play / Pause	1 bit	С	-	W	Т	U	start/stop	低
3011	Channel 1-Backgro Previous / Next song	1 bit	С	R	-	Т	-	up/down	低
3012	Channel 1-Backgro Dec / Add volume	1 bit	С	R	4	Т	-		低
3015	Channel 1-Backgro Play mode	1 byte	С	R	-	Т	-		低
3016	Channel 1-Backgro Status play mode	1 byte	С	н	W	Т	U		低
3017	Channel 1-Backgro Play progress	1 byte	С	R	-	Т	1		低
■2 3018	Channel 1-Backgro Status play progress	1 byte	С	2	W	Т	U		低
3019	Channel 1-Backgro Music source	1 byte	С	R	-	Т	-		低
■≵ 3020	Channel 1-Backgro Status music source	1 byte	С	÷	W	Т	U		低
■2 3021	Channel 1-Backgro Music mute	1 bit	С	R	-	Т	-	switch	低
■2 3022	Channel 1-Backgro Status music mute	1 bit	C	-	W	Т	U	switch	低

Figure 7.8

3006	Channel 1-Background music	Unblocking/Blocking	1bit	C, W,T,U
3007	Channel 1-Background music	Power switch	1bit	С,R, Т
3008	Channel 1-Background music	Status power switch	1bit	C, W,T,U
3009	Channel 1-Background music	Play / Pause	1bit	С,R, Т
3010	Channel 1-Background music	Play / Pause	1bit	C, W,T,U
3011	Channel 1-Background music	Previous/ Next song	1bit	C,R, T
3012	Channel 1-Background music	Dec/Add volume	1bit	C,R, T
3015	Channel 1-Background music	Play mode	1byte	C,R, T



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3016	Channel 1-Background music	Status play mode	1byte	C, W,T,U
3017	Channel 1-Background music	Play progress	1byte	С,R, Т
3018	Channel 1-Background music	Status play progress	1byte	C, W,T,U
3019	Channel 1-Background music	Music source	1byte	С,R, Т
3020	Channel 1-Background music	Status music source	1byte	C, W,T,U
3021	Channel 1-Background music	Music mute	1bit	С,R, Т
3022	Channel 1-Background music	Status music mute	1bit	C, W,T,U

This communication object is enabled when the parameter " Background music " selects " General " and at the same time "Channel X" (X=1~16) selects "Enabled". Obj.1: This communication object is used to back feed the blocking value message of background music channel 1 to the bus; Obj.2: This communication object is used to send the status of the power switch of background music channel 1; Obj.3: This communication object is used to back feed the power message of background music channel 1 to the bus; Obj.4: This communication object is used to send the pause/play status of background music channel 1; Obj.5: This communication object is used to back feed the pause/play message of background music channel 1 to the bus via 1byte; Obj.6: This communication object is used to send the status of the previous/next song of background music channel 1; Obj.7: This communication object is used to send the status of decreasing/increasing volume of background music channel 1.Obj.8: This communication object is used to send the status of the play mode of background music channel 1; Obj.9: This communication object is used to back feed the Play Mode message of background music channel 1 to the bus.Obj.10: This communication object is used to send the status of the play progress of background music channel 1; Obj.11: This communication object is used to back feed the play progress message of background music channel 1 to the bus. Obj.12: This communication object is used to send the status of the music source for background music channel 1; Obj.13: This communication object is used to back feed the music source message of background music channel 1 to the bus. Obj.14: This communication object is used to send the status of the music mute for background music channel 1 via 1byte; Obj.15: This communication object is used to back feed the music mute message of background music channel 1 to the bus via 1byte.

Note: The communication object of " Channel X- Background music" is the same as above (X=1~16).



7.9 Air quality

3278	Channel 1-Air quality Unblocking/Blocking	1 bit	С	-	W	Т	U enable	低
3279	Channel 1-Air quality Item 1, AQI	2 bytes	С	-	W	Т	U	低
■2 3280	Channel 1-Air quality Item 2, AQI	2 bytes	С	-	W	Т	U	低
3281	Channel 1-Air quality Item 3, AQI	2 bytes	С	-	W	Т	U	低
3282	Channel 1-Air quality Item 4, AQI	2 bytes	С	-	W	Т	U	低
3283	Channel 1-Air quality Item 5, AQI	2 bytes	С	-	W	Т	U	低
3284	Channel 1-Air quality Item 6, AQI	2 bytes	С	-	W	Т	U	低
3285	Channel 1-Air quality Item 7, AQI	2 bytes	С	-	W	Т	U	低
■2 3286	Channel 1-Air quality Item 8, AQI	2 bytes	С	7	W	Т	U	低
3287	Channel 1-Air quality Item 9, AQI	2 bytes	С	-	W	Т	U	低

Figure 7.9

3278	Channel 1-Air quality	Unblocking/Blocking	1bit	C, W,T,U					
This communication object is enabled when the parameter " Air quality " selects " General " and at the same time									
"Channel X" (X=1~16) selects "Enabled". This communication object is used to back feed the blocking value message									
of air quality channel 1 to the bus;									
3279	Channel 1-Air quality	Item 1, AQ1	2bytes	C, W,T,U					
3280	Channel 1-Air quality	Item 2, AQ1	2bytes	C,W,T,U					
3281	Channel 1-Air quality	Item 3, AQ1	2bytes	C, W,T,U					
3282	Channel 1-Air quality	Item 4, AQ1	2bytes	C,W,T,U					
3283	Channel 1-Air quality	Item 5, AQ1	2bytes	C, W,T,U					
3284	Channel 1-Air quality	Item 6, AQ1	2bytes	C, W,T,U					
3285	Channel 1-Air quality	Item 7, AQ1	2bytes	C, W,T,U					
3286	Channel 1-Air quality	Item 8, AQ1	2bytes	C, W,T,U					
3287	Channel 1-Air quality	Item 9, AQ1	2bytes	C, W,T,U					

This communication object is enabled when the parameter " Air quality " selects " General " and at the same time "Channel X" (X=1~16) selects "Enabled", then "Items Y function in List display" (Y=1~9) selects "Enabled". Obj.1: This communication object is used to back feed the item one

AQI/Temperature/Humidity/PM2.0/PM1.0/CHCHO/TVOC/CO2/CO messages of air quality channel 1 to the bus; Obj.2:

This communication object is used to back feed the item two

AQI/Temperature/Humidity/PM2.0/PM1.0/CHCHO/TVOC/CO2/CO messages of air quality channel 1 to the bus; Obj.3:

This communication object is used to back feed the item three

AQI/Temperature/Humidity/PM2.0/PM1.0/CHCHO/TVOC/CO2/CO messages of air quality channel 1 to the bus; Obj.4:



This communication object is used to back feed the item four

AQI/Temperature/Humidity/PM2.0/PM1.0/CHCHO/TVOC/CO2/CO messages of air quality channel 1 to the bus; Obj.5:

This communication object is used to back feed the item five

AQI/Temperature/Humidity/PM2.0/PM1.0/CHCHO/TVOC/CO2/CO messages of air quality channel 1 to the bus; Obj.6:

This communication object is used to back feed the item six

AQI/Temperature/Humidity/PM2.0/PM1.0/CHCHO/TVOC/CO2/CO messages of air quality channel 1 to the bus; Obj.7:

This communication object is used to back feed the item seven

AQI/Temperature/Humidity/PM2.0/PM1.0/CHCHO/TVOC/CO2/CO messages of air quality channel 1 to the bus; Obj.8:

This communication object is used to back feed the item eight

AQI/Temperature/Humidity/PM2.0/PM1.0/CHCHO/TVOC/CO2/CO messages of air quality channel 1 to the bus; Obj.9:

This communication object is used to back feed the item nine

AQI/Temperature/Humidity/PM2.0/PM1.0/CHCHO/TVOC/CO2/CO messages of air quality channel 1 to the bus;

Note: The communication object of " Channel X- Air quality" is the same as above (X=1~16).

7.10 Energy data

		-						1
■≵ 3438	Channel 1-Energy d Unblocking/Blocking	1 bit	С	н	W	Т	U	enable 低
■≵ 3439	Channel 1-Energy d Item 1, Current	2 bytes	С	-	W	Т	U	current (mA)低
■≵ 3440	Channel 1-Energy d Item 2, Current	2 bytes	С	-	W	Т	U	current (mA)低
■2 3441	Channel 1-Energy d Item 3, Current	2 bytes	С	-	W	Т	U	current (mA)低
■≵ 3442	Channel 1-Energy d Item 4, Current	2 bytes	С	н	W	Т	U	current (mA)低
■≵ 3443	Channel 1-Energy d Item 5, Current	2 bytes	С	-	W	Т	U	current (mA)低
■≵ 3444	Channel 1-Energy d Item 6, Current	2 bytes	С	-	W	Т	U	current (mA)低
■≵ 3445	Channel 1-Energy d Item 7, Current	2 bytes	С	-	W	Т	U	current (mA)低
■≵ 3446	Channel 1-Energy d Item 8, Current	2 bytes	С	-	W	Т	U	current (mA)低
3447	Channel 1-Energy d Item 9, Current	2 bytes	С	-	W	Т	U	current (mA)低

Figure 7.10

3438	Channel 1-Energy data	Unblocking/Blocking	1bit	C, W,T,U					
This communication object is enabled when the parameter " Energy data " selects " General " and at the same time									
"Channel X" (X=1~16) selects "Enabled". This communication object is used to back feed the blocking value message									
of energy data channel 1 to the bus;									
3439	Channel 1-Energy data	Item 1, Current	2bytes	C, W,T,U					
3440	Channel 1-Energy data	Item 2, Current	2bytes	C, W,T,U					
3441	Channel 1-Energy data	2bytes	C, W,T,U						
3442	Channel 1-Energy data	Item 4, Current	2bytes	C,W,T,U					



3443	Channel 1-Energy data	Item 5, Current	2bytes	C, W,T,U
3444	Channel 1-Energy data	Item 6, Current	2bytes	C, W,T,U
3445	Channel 1-Energy data	Item 7, Current	2bytes	C, W,T,U
3446	Channel 1-Energy data	Item 8, Current	2bytes	C, W,T,U
3447	Channel 1-Energy data	Item 9 Current	2bytes	C, W,T,U

This communication object is enabled when the parameter " Air quality " selects " General " and at the same time "Channel X" (X=1~16) selects "Enabled", then "Items Y function in List display" (Y=1~9) selects "Enabled". Obj.1: This communication object is used to feed back the item one current/voltage/power/power factor/electricity messages of energy channel 1 to the bus; Obj.2: This communication object is used to feed back the item two current/voltage/power/power factor/electricity messages of air quality channel 1 to the bus; Obj.3: This communication object is used to feed back the item three current/voltage/power/power factor/electricity messages of air quality channel 1 to the bus; Obj.4: This communication object is used to feed back the item four current/voltage/power/power factor/electricity messages of air quality channel 1 to the bus; Obj.5: This communication object is used to feed back the item five current/voltage/power/power factor/electricity messages of air quality channel 1 to the bus; Obj.6: This communication object is used to feed back the item six current/voltage/power/power factor/electricity messages of air quality channel 1 to the bus; Obj.7: This communication object is used to feed back the item seven current/voltage/power/power factor/electricity messages of air guality channel 1 to the bus; Obj.8: This communication object is used to feed back the item eight current/voltage/power/power factor/electricity messages of air quality channel 1 to the bus; Obj.9: This communication object is used to feed back the item nine current/voltage/power/power factor/electricity messages of air quality channel 1 to the bus; Note: The communication object of " Channel X- Energy data " is the same as above (X=1~16).

7.11 Time function

■2 1190	Time function 1	Output - 1 bit	1 bit	C R - T - switch 低	
1191	Time function 1	Disabled/Enabled	1 bit	C - W T U enable 低	

Figure	7.11	
<u> </u>		

1190	Time function 1 Output -1 bit 1bit		1bit	С,R, Т				
1191	Time function 1	Disabled/Enabled	1bit	C, W,T,U				
This communication object is enabled when the parameter " Time function " selects " General " and at the same time								
"Channel X" (X=1~16) selects "Enabled". Obj.1: This communication object is used to send the status of the timing								



output 1 bit of the timing function channel 1; Obj.2: This communication object is used to feed the timing function

Enabled/Disabled messages of the timing function channel 1 to the bus.

Note: The communication object of " Channel X- Time function " is the same as above (X=1~16).

7.12 Scene module

1.1.1	5		,						1.1	
1222	Scene module 1	Scene	1 byte	С	-	W	Т	U	scene cont低	
1223	Scene module 1	Output 1-1 bit	1 bit	С	-	W	Т	-	switch 低	
1224	Scene module 1	Output 2-1 bit	1 bit	С	-	W	Т	-	switch 低	
1225	Scene module 1	Output 3-1 bit	1 bit	С	-	W	Т	-	switch 低	
1226	Scene module 1	Output 4-1 bit	1 bit	С	-	W	Т	-	switch 低	
1227	Scene module 1	Output 5-1 bit	1 bit	С	-	W	Т	-	switch 低	
1228	Scene module 1	Output 6-1 bit	1 bit	С	-	W	Т	-	switch 低	
1229	Scene module 1	Output 7-1 bit	1 bit	С	-	W	Т	-	switch 低	
1230	Scene module 1	Output 8-1 bit	1 bit	С	-	W	Т	1	switch 低	
1222	Scene module 1	Scene	1 byte	С	-	W	Т	U	scene cont低	
■ 2 1222 ■ 2 1223	Scene module 1 Scene module 1	Scene Output 1-1 byte	1 byte 1 byte	C C	-	W	T T	U -	scene cont低 percentag 低	
 1222 1223 1224 	Scene module 1 Scene module 1 Scene module 1	Scene Output 1-1 byte Output 2-1 byte	1 byte 1 byte 1 byte	C C C	-	W W W	T T T	U - -	scene cont低 percentag 低 percentag 低	
1 222 1 223 1 224 1 224 1 225	Scene module 1 Scene module 1 Scene module 1 Scene module 1	Scene Output 1-1 byte Output 2-1 byte Output 3-1 byte	1 byte 1 byte 1 byte 1 byte	C C C C	-	W W W	T T T T	U - -	scene cont低 percentag 低 percentag 低 percentag 低	
↓ 1222 ↓ 1223 ↓ 1224 ↓ 1225 ↓ 1226	Scene module 1 Scene module 1 Scene module 1 Scene module 1 Scene module 1	Scene Output 1-1 byte Output 2-1 byte Output 3-1 byte Output 4-1 byte	1 byte 1 byte 1 byte 1 byte 1 byte	C C C C	-	W W W W	T T T T T	U - - -	scene cont低 percentag 低 percentag 低 percentag 低 percentag 低	
↓ 1222 ↓ 1223 ↓ 1224 ↓ 1225 ↓ 1226 ↓ 1227	Scene module 1 Scene module 1 Scene module 1 Scene module 1 Scene module 1 Scene module 1	Scene Output 1-1 byte Output 2-1 byte Output 3-1 byte Output 4-1 byte Output 5-1 byte	1 byte 1 byte 1 byte 1 byte 1 byte 1 byte	C C C C C C	-	W W W W	T T T T T T	U - - - -	scene cont低 percentag 低 percentag 低 percentag 低 percentag 低 percentag 低	
↓ 1222 ↓ 1223 ↓ 1224 ↓ 1225 ↓ 1226 ↓ 1227 ↓ 1228	Scene module 1 Scene module 1 Scene module 1 Scene module 1 Scene module 1 Scene module 1 Scene module 1	Scene Output 1-1 byte Output 2-1 byte Output 3-1 byte Output 4-1 byte Output 5-1 byte Output 6-1 byte	1 byte 1 byte 1 byte 1 byte 1 byte 1 byte 1 byte	C C C C C C C C		W W W W W	T T T T T T T	U - - - - -	scene cont低 percentag 低 percentag 低 percentag 低 percentag 低 percentag 低	
2 1222 2 1223 2 1224 2 1225 2 1226 2 1227 2 1228 2 1229	Scene module 1 Scene module 1	Scene Output 1-1 byte Output 2-1 byte Output 3-1 byte Output 4-1 byte Output 5-1 byte Output 6-1 byte Output 7-1 byte	1 byte 1 byte 1 byte 1 byte 1 byte 1 byte 1 byte 1 byte	C C C C C C C C C C C C C	- - - - -	W W W W W W	T T T T T T T	U - - - - - - - -	scene cont低 percentag 低 percentag 低 percentag 低 percentag 低 percentag 低 percentag 低 percentag 低	

Figure	7.12
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1222	Scene module 1	Scene	1byte	C,W,T,U
1223	Scene module 1	Output 1-1 bit	1bit	C,R, T
1224	Scene module 1	Output 2-1 bit	1bit	C,R, T
1225	Scene module 1	Output 3-1 bit	1bit	C,R, T
1226	Scene module 1	Output 4-1 bit	1bit	C,R, T
1227	Scene module 1	Output 5-1 bit	1bit	C,R, T
1228	Scene module 1	Output 6-1 bit	1bit	C,R, T
1229	Scene module 1	Output 7-1 bit	1bit	C,R, T
1230	Scene module 1	Output 8-1 bit	1bit	C,R, T

This communication object is enabled when the parameter " Scene module " selects " General " and at the same time "Channel X" (X=1~8) selects "Enabled" . Obj.1: This communication object is used to back feed the scene function message of scene mode of channel 1 to the bus. (Activation: Activate scene functions on ETS; Learn: Write, Devices can learn from the previous scene) . Obj.2: When the parameter "Data type of output Y for Scene module" (Y=1~8)



selects "1 bit", This communication object is used to send the status of the timing output Y-1bit of the scene function channel 1; Obj.3: When the parameter "Data type of output Y for Scene module" (Y=1~8) selects "1 byte", This communication object is used to send the status of the timing output Y-1byte of the scene function channel 1; Note: The communication object of " Channel X- Scene module " is the same as above (X=1~8).



8 Safe use and maintenance

- (1) Read all instructions in detail before use.
- (2) Create a good ventilation environment.
- (3) In use, pay attention to the moisture-proof, shock-proof, dust-proof.
- (4) Strictly forbid to rain, contact with other liquids or corrosive gases.
- (5) If it is wet or attacked by liquid, it should be dried in time.
- (6) When the machine fails, please contact professional maintenance personnel or our company.

9 Contact

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