

Smart Touch Screen Panel

Manual -Ver2.1

TS0401



ſ	2022–10–26 16:1	6 Wednesday	
	My Room		(j)
	Temperature	 PM2.5 59 ug/m³ CO2 	 HCHO 0.05 mg/m³ TVOC
	26.6°c	210 ppm	0.4 mg/m ³
	<u>-</u> - <u>`</u> `		



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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	No Yes
RGB dimming	Return to the home page	Disabled Enabled
- Air conditioner	Screen saver function	O Disabled C Enabled
Floor heating	Turn off backlight	Disabled Enabled
 Ventilation system 	Password protection	O Disabled C Enabled
HVAC function	Blocking function	O Disabled C 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", options: 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, "Time to return after no operation" can be set to: 1 seconds , 2 seconds 120 minutes.
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 [0100]% saver" can be set to: 0%, 1%, 2% 100%; ③ "Time to enter the screensaver after no operation [0 65535]s" can be set to: 0, 1, 2 65535; ④ " Enter screensaver via object" can be set to: No, Yes. When "yes" is selected, parameter "Activate value" will appear, options: On is activation, Off is activation
Turn 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 object	Turn off backlight via object, options : No, Yes. When "yes" is selected, parameter "Activate value" will appear, options: On is activation, Off is activation.
Password protection	Password protection, options: Enabled, Disabled, When "Enabled" is selected, the following four parameters will appear: ① "Password(number only, four Numbers)"; ② "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	Blocking function, options: Enabled, Disabled. When "Enabled" is selected, the following two 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.
Device status	Device status, options: Enabled, Disabled. When "Enabled" is selected, the following parameter will appear: "Cycle time for sending " can be set to: 1 seconds, 2 seconds 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 for internal temperature", options: No, yes. When "yes" is selected, the following parameter will appear: "Cycle time for sending temperature" for internal temperature", options: No, yes. When "yes" is selected, the following parameter 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: ① "Monitoring period for External temperature(min)" can be set to: $0.1.2255$; ⑦ "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	The source of humidity display, options: Internal sensor, External sensor. When "Internal 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 page	Humidity display for main page, options: Enabled, Disabled
Air quality 1 display for main page	Air quality 1 display for main page, options: Enabled, Disabled. When "Enabled" is selected, the following parameter will appear: ①Channel select (Air quality 1 display), options: channel 1, channel 2, channel3 channel 16; ② Item select (Air quality 2 display), options: item1, item2, item2item9
Air quality 2 display for main page	Air quality 2 display for main page, options: Enabled, ,Disabled. When "Enabled" is selected, the following parameters will appear: ①Channel select (Air quality 2 display), options: channel 1, channel 2, channel3 channel 16; ②Item select (Air quality 2 display), options: item1, item2, item2 item9
Air quality 3 display for main page	Air quality 3 display for main page, options: Enabled, Disabled. When "Enabled" is selected, the following parameter will appear: ①Channel select (Air quality 3 display), options: channel 1, channel 2, channel3 channel 16; ②Item select (Air quality 3 display), options: item1, item2, item2item9
Setting for reading object	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: Disabled, Periodic reading, Read at specified time. ④When "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 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 O Yes
	Channel setting	Blocking function	O Disabled O Enabled
		Channel 2	
H	Main page	Read Status object at voltage recovery	O No O Yes
-	General functions	Blocking function	O Disabled O Enabled
ł	RGB dimming	Channel 3	
		Read Status object at voltage recovery	O No Ves
-	Air conditioner	Blocking function	O Disabled O Enabled
-	Floor heating	Channel 4	
-	Ventilation system	Read Status object at voltage recovery	O No Ves
-	HVAC function	Blocking function	O Disabled O Enabled
		Channel 5	
ł	Background music	Read Status object at voltage recovery	O No Ves
F	Air quality	Blocking function	Disabled Enabled

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.

- Basic settings	Channel 1	
Basic setting	Read Status object at voltage recovery	🔿 No 🔘 Yes
Channel setting	Blocking function	O Disabled O Enabled
+ Main page	Defined value for blocking	1=blocking, 0=unblocking 1=unblocking, 0=blocking
+ General functions	Blocking value after voltage recovery	unblocking
+ RGB dimming	Channel 2 Read Status object at voltage recovery	O No Ves
+ Air conditioner	Blocking function	Disabled Enabled
+ Floor heating	Channel 3	
+ Ventilation system	Read Status object at voltage recovery	O No Ves
+ HVAC function	Blocking function	Disabled Enabled
+ Background music	Read Status object at voltage recovery	No Yes
+ Air quality	Blocking function	O Disabled C Enabled
Group 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	Oisabled O Enabled
– Main page	Main Page 2	O Disabled O Enabled
General	Main Page 3	O 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		

Figure 6.2.1

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	•
General	Link button 1 for main page 1	O Disabled O Enabled	
	Icon select	Default	•
Main Page 1	Which function link to	General functions	•
Main page 2	Channel select	channel 1	•
Main page 3	Link to specified button/item	O Disabled O Enabled	
+ General functions	Button/Item select	Button/Item 1	•
+ RGB dimming	Link button 2 for main page 1	O Disabled C Enabled	
+ Air conditioner	Link button 3 for main page 1	Disabled Enabled	
+ Floor heating	Link button 4 for main page 1	 Disabled Enabled 	
+ Ventilation system	Link button 5 for main page 1	O Disabled O Enabled	
+ HVAC function	Link button 6 for main page 1	O Disabled O 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=1~16,Y=1~3), 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



KNX/EIB BUS

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	O Disabled C Enabled	
General	Button 2	O Disabled O Enabled	
Channel 1	Button 3	Disabled Enabled	
+ RGB dimming	Button 4	Disabled Enabled	
+ Air conditioner	Button 5	O Disabled O Enabled	
+ Floor heating	Button 6	O Disabled C Enabled	
+ Ventilation system	Button 7	O Disabled O Enabled	
* Ventilation system	Button 8	O Disabled O Enabled	
+ HVAC function	Button 9	O Disabled O Enabled	
+ Background music	Button 10	Disabled Enabled	
+ Air quality	Button 11	O Disabled O Enabled	

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,
	Disabled. When "Enabled" is selected, the following parameters will appear: ① "Icon
	select", options: Default, lcon1, lcon2, lcon3 lcon30; ② "Description for button1 "
Button 1 - Button 12	indicates that button 1 maximum input content allowed 24 bytes; (3) "Function for
DULLON I - DULLON 12	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	
lcon select	Default	•
Description for button 1	Text	
Function for button 1	Text only	•

6.3.2 Switch On

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

6.3.3 Switch Off

Button 3	O Disabled 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	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	•
Function for button 6	Venetian blinds	•

6.3.7 Curtain/Roller shutter/Awning

Button 7	Oisabled O Enabled	
Icon select	Blind, Icon 2	•
Description for button 7	Awning	
Function for button 7	Curtain/Roller shutter/Awning	•



6.3.8 Dimming

Button 8	O Disabled 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	Disabled O Enabled
Icon 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	O Disabled O Enabled
Icon 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	O Disabled O Enabled
+ Main page	Channel 2	O Disabled O Enabled
+ General functions	Channel 3	O Disabled O Enabled
- RGB dimming	Channel 4	O Disabled O Enabled
	Channel 5	O Disabled O Enabled
General	Channel 6	O Disabled O Enabled
Channel 1	Channel 7	Disabled Enabled
+ Air conditioner	Channel 8	Disabled Enabled
+ Floor heating	Channel 9	O Disabled O Enabled
+ Ventilation system	Channel 10	O Disabled O Enabled
+ HVAC function	Channel 11	O Disabled O Enabled
	Channel 12	O Disabled O Enabled
+ Background music	Channel 13	O Disabled O Enabled

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 typeControl for RGBW	RGB dimming ORGBW 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 🛛 🔘 6byte x 1
Air conditioner	Absolute color temperature	Disabled O Enabled
Floor heating		
 Ventilation system 		
HVAC function		
 Background music 		

Figure 6.4.2

Parameter	Description
Description (on DCD discussion 1	Description for RGB dimming 1, maximum input content allowed 24 bytes (8
Description for RGB dimming 1	chinese characters) .
	Dimming type, options: "RGB dimming" and "RGBW dimming" (1) When "RGB
Dimming type	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, 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	O Disabled O Enabled
+ Main page	Channel 2	O Disabled O Enabled
+ General functions	Channel 3	O Disabled O Enabled
+ RGB dimming	Channel 4	Disabled Enabled
	Channel 5	Disabled Enabled
- Air conditioner	Channel 6	O Disabled O Enabled
General	Channel 7	O Disabled O Enabled
+ Floor heating	Channel 8	O Disabled O Enabled
+ Ventilation system	Channel 9	O Disabled O Enabled
+ HVAC function	Channel 10	O Disabled C Enabled
+ HVAC function	Channel 11	O Disabled O Enabled
+ Background music	Channel 12	Disabled Enabled
+ Air quality	Channel 13	O Disabled C Enabled
+ Energy data	Channel 14	O Disabled O Enabled

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	
► RGB dimming	Control for mode		
	Value for cool mode	0	ģ
Air conditioner	Value for heat mode	1	-
General	Dry mode	O Disabled C Enabled	
Channel 1	Ventilation mode	Disabled	
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	1
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	
Description for Air condition 1	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;	
Drymodo	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 speed auto	Fan speed - auto, options: Enabled, Disabled. When "Enabled" is selected, the	
Fan 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)	
Temperature source	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; the parameter "Read external sensor after voltage recovery" can be set to: No,Yes.
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 [1632°C]	Min. set temperature, options: 16,17,1832℃
Max. set temperature [1632°C]	Max. set temperature, options: 16,17,1832℃
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	Disabled Enabled
+ RGB dimming	Channel 4	Disabled Enabled
	Channel 5	Disabled Enabled
+ Air conditioner	Channel 6	Disabled Enabled
- Floor heating	Channel 7	Disabled Enabled
General	Channel 8	Disabled Enabled
+ Ventilation system	Channel 9	Disabled Enabled
+ HVAC function	Channel 10	Disabled Enabled
+ HVAC function	Channel 11	Disabled Enabled
+ Background music	Channel 12	Disabled Enabled
+ Air quality	Channel 13	Disabled 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	Delaumitati		
Floor heating	Relay switch	Disabled Enabled	
General	Temperature source	Internal sensor External sensor	
Channel 1	Temperature Hysteresis[0255]*0.1	5	÷
Ventilation system	Option for setting	Disabled	-
General	Floor function after voltage recovery	Off	•
HVAC function	Setting temperature	Disabled Enabled	
Background music	Setting function switch	Disabled Enabled	
Air quality	The change in each step for setting	0.5	
Energy data	temperature Min. set temperature[540°C]	5℃	

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) .	
Relay switch	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	
Temperature source	sensor" is selected, there are following parameters: "Time period for request external	
lemperature source	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 sotting	"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: 0.1,0.5,1,1.5,2	
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	Disabled Enabled
+ Main page	Channel 2	O Disabled O Enabled
+ General functions	Channel 3	O Disabled O Enabled
+ RGB dimming	Channel 4	O Disabled O Enabled
	Channel 5	Disabled Enabled
+ Air conditioner	Channel 6	O Disabled O Enabled
+ Floor heating	Channel 7	O Disabled O Enabled
- Ventilation system	Channel 8	O Disabled C Enabled
General	Channel 9	O Disabled O Enabled
	Channel 10	O Disabled O Enabled
+ HVAC function	Channel 11	O Disabled O Enabled
+ Background music	Channel 12	O Disabled O Enabled
+ Air quality	Channel 13	O Disabled O Enabled
+ Energy data	Channel 14	Disabled Enabled
Group Objects / Channel	s Parameter	

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	1bit 1byte	
÷	Air conditioner	Status fan speed control for 1bit	Disabled Enabled	
ŀ	Floor heating	Delay between fan speed switch[0255] *0.1s	20	* *
-	Ventilation system			
		Temperature course		
	General	Temperature source	O Internal sensor C External sensor	
(General Channel 1	Option for setting	Disabled	•
(+				
(+ +	Channel 1	Option for setting Ventilation function after voltage	Disabled	
	Channel 1 HVAC function	Option for setting Ventilation function after voltage recovery	Disabled	
(+ + +	Channel 1 HVAC function Background music	Option for setting Ventilation function after voltage recovery Setting fan speed	Disabled Off O Disabled Enabled	•





Parameter	Description
Description for Ventilation 1	Description for Ventilation 1, maximum input content allowed 24 bytes (8 chinese characters).
Data type of Fan speed control	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: 0,1,2,3255; ③ "Value for Fan speed low" indicates the value representing the 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: 0,1,2,3255; 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 [0255]*0.1s	Delay between fan speed switch [0255]* 0.1s,options: 0,1,2,3255;
Temperature source	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 "Ventilation function after voltage recovery" can be set to: Off, On, As before voltage failure;
Setting fan speed	Setting fan speed, options: Enabled, Disabled. When "Enabled" is selected, the following five parameters will appear: ① "Value for setting Fan speed off" can be set to: 0,1,2,3255; ② "Value for setting Fan speed low" can be set to: 0,1,2,3255; 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	Auto. fan speed function, options: Enabled, Disabled. When "Enabled" is selected, 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 air-quality value in Auto.(min)	Cycle time for request air-quality value in Auto. (min), options: 0,1,2,3255;
Air-quality value reference from	Reference of air-quality value , options: PM2.5(µg/m3); CO2(ppm); HCHO(mg/m3); TVOC(mg/m3)
Base of all threshold and hysteresis value	Base of all threshold and hysteresis value, options: ①0.01; ②0.1; ③1; ④10.
Factor of hysteresis valuer	Factor of hysteresis valuer, options: 0,1,2,3255;



Factor of threshold value for	Factor of threshold value for Off<->Low, options: 0,1,2,365535	
Off<->Low	Factor of threshold value for OT<->Low, options: 0,1,2,365555	
Factor of threshold value for	Easter of threshold value for Low > Madium antions: 0122 65525	
Low<->Medium	Factor of threshold value for Low<->Medium, options: 0,1,2,365535	
Factor of threshold value for	Factor of threshold value for Medium<->High, options: 0,1,2,365535	
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	O Disabled O Enabled
+ RGB dimming	Channel 2	Disabled Enabled
+ Air conditioner	Channel 3	O Disabled C Enabled
+ Floor heating	Channel 4	Disabled Enabled
+ Ventilation system	Channel 5	Disabled Enabled
- HVAC function	Channel 6	Disabled Enabled
- HVAC function	Channel 7	O Disabled O Enabled
General	Channel 8	O Disabled O Enabled
+ Background music	Channel 9	O Disabled O Enabled
+ Air quality	Channel 10	O Disabled O Enabled
+ Energy data	Channel 11	Disabled Enabled
	Channel 12	O Disabled O Enabled
+ Time function	Channel 13	Disabled Enabled
+ Scene module	Channel 14	O Disabled O Enabled
Group Objects / Channel	s 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	O Disabled C 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	Disabled Enabled
Air quality	Setting HVAC mode	O Disabled C Enabled
 Energy data 	Setting fan speed	O Disabled C Enabled
Time function	Setting function switch	Disabled 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, options: " Internal sensor" or "External sensor". When	
Indoor temperature source	"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, options: "Disabled ", "Read setting object at voltage recovery",	
Option for setting	"Send setting as feedback when receiving setting" . When "Disabled" or " Send setting	
Option for 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, options: Enabled, Disabled. When "Enabled" is selected, the	
Satting heat/cool mode	parameter "Data type for setting heat/cool mode" can be set to: 1 bit; 1byte; When "	
Setting heat/cool mode	1byte " is selected, the parameter "Value for heat mode" can be set to : 0,1,2,3	
	255; "Value for-cool mode" can be set to: 0,1,2,3255;	
	Setting HVAC mode, options: Enabled, Disabled. (1) When "Enabled" is selected,	
	the parameter "HVAC mode after voltage recovery" can be set to: Comfort mode;	
Setting HVAC 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, options: Enabled, Disabled. When "Enabled" is selected, there are	
	following parameters: ① "Value for setting Fan speed off", options: 0,1,2,3255;	
Setting fan speed	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 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	Max set temperature options: $5.6.7 \pm 40^{\circ}$	
[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 O Enabled
+ Air conditioner	Channel 3	O Disabled O Enabled
+ Floor heating	Channel 4	O Disabled C Enabled
+ Ventilation system	Channel 5	O Disabled O Enabled
	Channel 6	Disabled Enabled
+ HVAC function	Channel 7	O Disabled C Enabled
- Background music	Channel 8	Disabled Enabled
General	Channel 9	O Disabled O Enabled
+ Air quality	Channel 10	O Disabled O Enabled
+ Energy data	Channel 11	O Disabled O Enabled
	Channel 12	Disabled Enabled
+ Time function	Channel 13	O Disabled O Enabled
+ Scene module	Channel 14	O Disabled O Enabled
Group Objects / Channel	s Parameter	



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	Ibit Ibyte
► HVAC function	volume adjustment	Volume+=1/Volume-=0
 Background 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;	



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Song select	Song selection, options: Previous=1/Next=0 or Previous=0/Next=1;	
Solig select	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	
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, 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: 0,1,2,3	
	255, "Output value for language program", options: 0,1,2,3255; "Output value	
	for children", options: 0,1,2,3255; "Output value for internet radio", options:	
Type of music source	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: 0,1,2,3	
	255; "Output value for MP3", options: 0,1,2,3255; "Output value for AUX",	
	options: 0,1,2,3255; "Output value for DVD", options: 0,1,2,3255; "Output	
	value for FM2", options: 0,1,2,3255; "Output value for IPOD", options: 0,1,2,3	
	255; "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	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 O Enabled
	Channel 6	Disabled Enabled
+ HVAC function	Channel 7	Disabled Enabled
+ Background music	Channel 8	O Disabled O Enabled
- Air quality	Channel 9	O Disabled C Enabled
General	Channel 10	O Disabled O Enabled
+ Energy data	Channel 11	O Disabled C Enabled
	Channel 12	Disabled Enabled
+ Time function	Channel 13	Disabled Enabled
+ Scene module	Channel 14	Disabled Enabled
Group Objects / Channe	Is 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	O Disabled O Enabled
ricorneuting	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	Disabled Enabled
- Air quality	Items 4 function in List display	O Disabled C Enabled
~	Items 5 function in List display	O Disabled C Enabled
General	Items 6 function in List display	Disabled Enabled
Channel 1	Items 7 function in List display	O Disabled
+ Energy data	Items 8 function in List display	Disabled Enabled
Time function	Items 9 function in List display	O Disabled C 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 sin quality (min) $0 = \text{disabled entioner}$ $0.122 = 255$	
quality (min),0=disable	Time period for request air quality (min), $0 = disabled$, options: 0,1,2,3255.	

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

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

Electricals

SEAWI

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 Items 2 function in List display	 Disabled Enabled Disabled Enabled 	
+ Ventilation system	Items 3 function in List display	Disabled Enabled	
+ HVAC function	Items 4 function in List display	O Disabled O 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	Disabled Enabled	
Channel 1	Time period for request energy data (min),0=disable	0	▲ ▼
+ Time function			
参数 频道 组对象	\$		

Figure 6.11.2



Parameter	Description	
Description for Energy data 1	Description for Energy data 1, Maximum input content allowed 24 bytes.	
	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	
Items 1 function in List	bytes. " Energy data select for Item 1 " can be set to: ①Current, with parameter "Data	
display - Items 9 function in	point for current", options: Value in mA(DPT 7.012), Value in A(DPT 14.019); ②	
List display	Voltage, with parameter "Display format for voltage", options: X,X.X,X.XX; ③Power,	
	with parameter "Display format for Power", options: X,X.X,X.XX; @Power factor;	
	⑤Electric energy, with parameter "Display format for Electric energy", options: Value	
	in Wh(DPT 13.010),Value in kWh(DPT 13.013)。	
Time period for request	Time period for request Energy data (min) $0 = disabled entions; 0.1.2.2 = 255$	
Energy data (min), 0=disable	Time period for request Energy data (min), $0 =$ disabled, options: 0,1,2,3255.	

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	Disabled Enabled
+ RGB dimming	Channel 2	O Disabled O Enabled
+ Air conditioner	Channel 3	O Disabled O Enabled
+ Floor heating	Channel 4	O Disabled O Enabled
+ Ventilation system	Channel 5	O Disabled O Enabled
	Channel 6	Disabled Enabled
+ HVAC function	Channel 7	O Disabled C Enabled
+ Background music	Channel 8	O Disabled C Enabled
+ Air quality	Channel 9	O Disabled O 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 C 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 On
+ Background music	Monday configuration	Disabled Enabled
+ Air quality	Tuesday configuration	O Disabled C Enabled
+ Energy data	Wednesday configuration	O Disabled C Enabled
- Time function	Thursday configuration	Disabled Enabled
	Friday configuration	Disabled Enabled
General	Saturday configuration	Disabled Enabled
Channel 1		
	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 object	Timing switch object, options: Disabled=0/Enabled=1 or Disabled=1/Enabled=0;		
Output for time function	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 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; ④When 2byte(unsigned value) is selected, the parameter "Output value for 2byte(unsigned value) " can be set to: 0,1,265535;		
Monday configuration - Sunday configuration	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, , there are following parameters. ① "Hour at xx for Monday" can be set to: 0,1,223; ② "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: 0,1,259; (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

		Electr	icals
<u>// 5</u>	E	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		

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 Ibit 1bit 1byte Data type of output 2 for Scene module 1 Ibit 1byte	
 Ventilation system 	Data type of output 2 for scene module 1 in the output 2 hor scene module 1 in the output 3 for Scene module 1 in the output 3 hor scene module 1 in the out	
► HVAC function	Data type of output 4 for Scene module 1 1 1 bit 1 byte	
Background music	Data type of output 5 for Scene module 1 1bit 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 1bit	-
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 O Off O On	

Figure 6.13.2

Parameter	Description						
Scone can be cauld	Scene can be saved, options: No,Yes. When "Yes" is selected, the parameter						
Scene can be saved	"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 module 1	be set to: Off, On. When "1 byte" is selected , the parameter under output 1 "Output						
module	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	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 be set to: Off, On. When "1 byte" is selected, the parameter under output 1 "Output 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	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 be set to: Off, On. When "1 byte" is selected, the parameter under output 1 "Output 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	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 be set to: Off, On. When "1 byte" is selected, the parameter under output 1 "Output 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	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 be set to: Off, On. When "1 byte" is selected, the parameter under output 1 "Output 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	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 be set to: Off, On. When "1 byte" is selected, the parameter under output 1 "Output 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	Data type of output 7 for Scene module 1, options: 1 bit, 1 byte or 2 byte. When "1 bit" is selected, the parameter under output 7 "Output value for assignment 1-8" can be set to: Off, On. When "1 byte" is selected, the parameter under output 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	Data type of output 8 for Scene module 1, options: 1 bit, 1 byte or 2 byte. When "1 bit" is selected, the parameter under output 8 "Output value for assignment 1-8" can be set to: Off, On. When "1 byte" is selected, the parameter under output 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

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

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	<i>v</i> ia object" selects "Yes" . This commu	inication object is used	to set the date and				
time of the	e device.							
3,4	Basic settings	Date-output, Time-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 communicatio	on object is used to reac	the date and time				
of the devi	ice.							
5	Basic settings	Brightness of screen	1byte	C,W, T,U				
This communication object is enabled when the parameter " Overwrite display brightness via object " selects "								
Enabled ". This communication object is used to overwrite display brightness via object.								
6	Basic settings	Enter screen saver	1 bit	C,W,T,U				



This comm	This communication object is enabled when the parameter " Enter screensaver via object " selects "Yes". This						
communication object is used to turn 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	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 " aı	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 " and the parameter "Check error for internal temperature" selects "Yes". This communication object is used							
to check for internal temperature errors.							
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 comm	nunication object is enable	d when the parameter " The source of	humidity display " selec	ts " Internal sensor				
" and the p	parameter "Send internal h	numidity" selects "Yes" . This commu	nication object is usedt	o 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 communication object is used to send the external humidity.								

7.2 General functions

-		1.0%	4 1-11		т			1.5		115
23	Channel 1-Button 1, Switch O	n / Off	1 bit	CR-	Т	7	swit	ch		低
Switch-Off, Switch-On										
Land Land										
■⊉ 23	Channel 1-Button 1, Switch	On / Off		1 bit		- \$				低
24	Channel 1-Button 1, Status switch	On / Off		1 bit	С -	W	Т	U	switch	低
		Switch-Tog	gle							
23	Channel 1-Button 1, Curtain O	pen / Close	1 bit	CR-	Т	-	ope	en/c	lose	低
■24	Channel 1-Button 1, Curtain St	op / Step	1 bit	CR-	Т	120	step	0		低
		Curtain-Open/Cl	ose/Stop							
in al		600 8002 h			100	250	1000			
23	Channel 1-Button 1, Blind	Up / Down		1 bit					up/down	低
■‡ 24	Channel 1-Button 1, Blind	Stop / Step		1 bit		R -			step	低
■‡ 25	Channel 1-Button 1, Blind	Position-0100%		2 .					percentag	
■‡ 26	Channel 1-Button 1, Blind	Slat-0100%			C				percentag	1
27	Channel 1-Button 1, Blind	Status position-010							percentag	1
■‡ 28	Channel 1-Button 1, Blind	Status slat-0100%		1 byte	C ·	- W	Ţ	U	percentag	. 1氐
		Venetian bli	inds							
23	Channel 1-Button 1. Roller shutter	Up / Down		1 bit	C F	2 -	Т	2	up/down	低
24	Channel 1-Button 1, Roller shutter	Stop / Step		1 bit		? -			step	低
25	Channel 1-Button 1, Roller shutter	Position-0100%							percentag	
■26	Channel 1-Button 1, Roller shutter	Status position-010		16.200					percentag	
Curtain/Roller shutter/Awning										
23	Channel 1-Button 1, Dimmer	Switch-On / Off		1 bit	CI	R -	Т	:=0	switch	低
24	Channel 1-Button 1, Dimmer	Stauts switch-On / Off		1 bit	C ·	- W	Т	U	switch	低
25	Channel 1-Button 1, Dimmer	Position-0100%		1 byte	CI	R -	Т	127	percentag	低

📭 26 Channel 1-Button 1, Dimmer Status position-0..10... 1 byte C - W T U percentag... 低



Dimming

23	Channel 1-Button 1, Scene Re	call / Program		1 byte	С	R	- T	2	scene	e contro		低
			Scene control									
2 3	Channel 1-Button 1 Display	1 bit				11	bit	С	- W	T U		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 communication object is enabled when the parameter " General functions " selects " General " and at the same										
time "Cha	time "Channel 1" selects "Enabled" . This communication object is used to switch on/off the blocking function of									
channel 1.	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 C,R, T									
time "But	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" selcects "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	C,R, T						
24	Channel 1-Button 1, Status Switch	On/Off	1bit	C, W,T,U						
This comm	nunication 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	C,R, T						
24	Channel 1-Button 1, Curtain	Stop / Step	1bit	C,R, T						
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 for the same to read the pause/start status of channel 1 curtains.										
23	Channel 1-Button 1, Blind	Up/ Down	1bit	С,R, Т						
24	Channel 1-Button 1, Blind	Stop / Step	1bit	С,R, Т						
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	C,R, T
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 percentage of channel 1 roller shutter positions. Obj.4: This communication object is used to send a percentage message of channel 1 to the bus to control the roller shutter position.

23	Channel 1-Button 1, Dimmer	Switch-On /off	1bit	С,R, Т
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 comm	nunication object is enabled when the para	meter " General functions "	selects " Channel	1 " and at the same				
time "Butte	on X" (X=1~12) selects "Enabled" , then "Fu	unction for button 1" selects	"Scene control"	. This communication				
object is u	sed to send messages for channel 1 scene	recall.						
23	Channel 1-Button 1 Display	1bit	1bit C,W,T,U					
This comm	nunication 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 "Fo	unction for button 1" select	s "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 r	the serial number is different)							

7.3 RGB dimming

1294	Channel 1-RGB dimming	Unblocking/Blocking	1 bit C - W T U enable f
1295	Channel 1-RGB dimming	Red value	1 byte C R - T - percentag <mark>(</mark> B
1296	Channel 1-RGB dimming	Green value	1 byte C R - T - percentag <mark>(</mark> B
1297	Channel 1-RGB dimming	Blue value	1 byte C R - T - percentag (B
∎≵ 1299	Channel 1-RGB dimming, Status	Red value	1 byte C - W T U percentag (B
1300	Channel 1-RGB dimming, Status	Green value	1 byte C - W T U percentag (B
1301	Channel 1-RGB dimming, Status	Blue value	1 byte C - W T U percentag f
		RGB dimming	
1313	Channel 1-RGB dimming	Color temperature	2 bytes C R - T - absolute c
1314	Channel 1-RGB dimming, Status	Color temperature	2 bytes C - W T U absolute c f
		Absolute color	
		temperature	
₽ 1303	Channel 1-RGB dimming	Red value	1 byte C R - T - percentag 1
1304	Channel 1-RGB dimming	Green value	1 byte C R - T - percentag 1
≵ 1304 ≵ 1305	Channel 1-RGB dimming Channel 1-RGB dimming	Green value Blue value	1 byte C R - T - percentag 1 1 byte C R - T - percentag 1
and the second			
1305	Channel 1-RGB dimming	Blue value	1 byte C R - T - percentag
<pre>↓ 1305 ↓ 1306</pre>	Channel 1-RGB dimming Channel 1-RGB dimming	Blue value White value	1 byte C R - T - percentag 1 1 byte C R - T - percentag 1
 ↓ 1305 ↓ 1306 ↓ 1308 	Channel 1-RGB dimming Channel 1-RGB dimming Channel 1-RGB dimming, Status	Blue value White value Red value	1 byte C R - T - percentag 1 1 byte C R - T - percentag 1 1 byte C - W T U percentag 1

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				
1301	Channel 1-RGB dimming, Status	Blue 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 "RGB dimming". Obj.1: This communication								
object is used to send a message with the blocking value to the bus to control the channel 1 RGB Unblocking/Blocking.								
Obj.2: This communication object is used to read the status of the channel 1 RGB red value. Obj.3: This communication								
object is used to read the status of the channel 1 RGB green value. Obj.4: This communication object is used to read the								
status of the chan	nel 1 RGB blue value. Obj.5: This comr	nunication object is used to send	messages of	channel 1 RGB				
red value to the b	us to control RGB dimming. Obj.6: This	communication object is used to	send messag	ges of channel 1				
RGB green value t	to the bus to control RGB dimming. Obj	j.7: This communication object is	used to send	l messages of				
channel 1 RGB blu	ue 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 communicat	tion object is enabled when the parame	eter " RGB dimming " selects " Ger	neral " and at	the same time				
"Channel X" (X:	=1~16) selects "Enabled" , then "Absc	olute color temperature" selects	"Enabled" .	Obj.1: This				
communication ol	bject is used to read the status of chan	nel 1 color temperature. Obj.2: T	his communio	cation object is				
used to send char	nnel 1 color temperature messages to tl	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	on object is enabled when the paramet	er " RGB dimming " selects " Gen	eral " and at t	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 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	<i>.</i>	W	Т	U	enable 低
1631	Channel 1-Air conditoner	Switch-On / Off	1 bit	С	R	2	Т	-27	switch 低
1632	Channel 1-Air conditoner	Status switch-On / Off	1 bit	С	4	W	Τ	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	æ	W	Т	U	HVAC cont低
₽ 1635	Channel 1-Air conditoner	Fan speed	1 byte	С	R	$\underline{\omega}$	Т	-2	percentag 低
1636	Channel 1-Air conditoner	Status fan speed	1 byte	С	4	W	Τ	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	5	W	Т	U	temperatu 低
₹ 1639	Channel 1-Air conditoner	Actual temperature	2 bytes	С	2	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	C	5	W	Т	U	低

Figure 7.4

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	C,R, T
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 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 status of big.et 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 big.et is used to send a message to the bus to control the air conditioner fan speed.Obj.8: This communication object is used to send a message 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
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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 "Temperature source" selects "External sensor". This communication object is used to send a message of the actual temperature for channel 1 air conditioner 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	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", 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	2	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	С	÷	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	2	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	С	÷	W	Т	U	switch	低
■컱 1829	Channel 1-Floor heating	Func switch-Output	1 bit	С	R	5)	Т	-	switch	低
■‡ 1830	Channel 1-Floor heating, High temp alar	Externa temperature	2 bytes	С	2	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	5	Т	-	alarm	低

Figure 7.5



1822	Channel 1-Floor heating	Unblocking/Blocking	1 bit	C,W,T,U		
This communication object is enabled when the parameter " Floor heating " 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 the flo	or heating channel 1 to the bus.					
1823	Channel 1-Floor heating	Relay control-On/ Off	1 bit	C,R, T		
This com	munication object is enabled when the para	meter " Floor heating " sele	ects " General " ar	nd at the same time		
"Channe	el X" (X=1~16) selects "Enabled" , then "Re	lay switch" selects "Enable	d" . This commun	ication object is used		
to send t	he 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		
"Channe	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		
"Channe	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		
1827	Channel 1-Floor heating	Setting temp-Output	2bytes	C,R, T		
This com	munication object is enabled when the para	meter " Floor heating " sele	ects " General " ar	nd at the same time		
"Channe	el X" (X=1~16) selects "Enabled" , then "Set	ting temperature" selects '	'Enabled" . Obj.1:	This communication		
object is	used to back feed the status message of the	setting input temperature	for floor heating	channel 1 to the bus.		
Obj.2 : Th	is communication object is used to send the	status of the setting output	temperature for	floor heating channel		
1.						
1828	Channel 1-Floor heating	Func switch-Input	1 bit	C, W,T,U		
1829	Channel 1-Floor heating	Func switch-Output	1 bit	С,R, Т		
This com	munication object is enabled when the para	meter " Floor heating " sele	ects " General " ar	nd at the same time		
"Channe	"Channel X" (X=1~16) selects "Enabled", then "Setting function switch" selects "Enabled". Obj.1: This communication					
object is used to back feed the status message of the setting input switch function for floor heating channel 1 to the						
bus. Obj.	2: This communication object is used to sen	d the status of the setting o	utput switch func	tion for floor heating		
channel ⁻	1.					



1830	Channel 1-Floor heating, High temp alarm	Extern temperature	2bytes	C, W,T,U			
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" , then "High	temperature alarm" select	s "Enabled" and	"Temperature source			
from the	third" selects "Yes" . This communication ob	ject is used to back feed ba	ck the status mes	sage to the bus when			
the exter	nal temperature is selected for the high tem	perature alarm function of	floor heating cha	nnel 1.			
1831	Channel 1-Floor heating, High temp alarm	Send alarm	1 bit	C,R, T			
This cor	nmunication object is enabled when the par	ameter " Floor heating " se	lects " General " a	nd 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 alar	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	С,R, Т			
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 "Fro	st protection" selects "Enal	bled" and "Tem	perature source from			
the third	the third" selects "Yes". Obj.1: This communication object is used to back feed a status message to the bus when the						
external	external temperature is selected for the frost protection function of floor heating channel 1. Obj.2: This communication						
object is	object is used to send the status of the frost protection function sending alarm for floor heating channel 1.						
Note:	The communication object of " Channel X- Fl	oor heating " is the same a	s above (X=1~16)			

7.6 Ventilation system

2046	Channel 1-Ventilation system	Unblocking/Blocking	1 bit	С	-	W	Т	U	enable	低
2047	Channel 1-Ventilation system	Fan speed 1	1 bit	С	R	-	Т	-	switch	低
2048	Channel 1-Ventilation system	Fan speed 2	1 bit	С	R	12	Т	526	switch	低
■≵ 2049	Channel 1-Ventilation system	Fan speed 3	1 bit	С	R	-	Т	-	switch	低
■2 050	Channel 1-Ventilation system	Status fan speed 1	1 bit	С	-	W	Т	U	switch	低
2051	Channel 1-Ventilation system	Status fan speed 2	1 bit	С	-	W	Т	U	switch	低
2052	Channel 1-Ventilation system	Status fan speed 3	1 bit	С	- 20	W	Τ	U	switch	低
2053	Channel 1-Ventilation system	Fan speed-1byte	1 byte	С	R	70	r,	-	percentag	低
2054	Channel 1-Ventilation system	Status fan speed-1byte	1 byte	С	2	W	Γ	U	percentag	低
2055	Channel 1-Ventilation system	Actual temperature	2 bytes	С	-	W	r I	U	temperatu	低



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	С,R, Т
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.

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 commun	ication object is enabled when the par	rameter " Ventilation system	" selects " Genera	ll " and at the same
time "Channe	el X" (X=1~16) selects "Enabled" , th	en "Data type of Fan speed c	ontrol" selects "	1 byte" and "Status
fan speed cor	ntrol for 1byte" selects " "Enabled" .	This communication object is	s used to back fee	ed the fan speed
messages of t	he ventilation system channel 1 to the	e bus.		
2055	Channel 1-Ventilation system	Actual temperature	2byte	C,W,T,U
This commun	ication object is enabled when the par	rameter " Ventilation system	" selects " Genera	I " and at the same
time "Channe	X" (X=1~16) selects "Enabled", then	"Data type of Fan speed cont	rol" selects "1 byte	e" and "Temperature
source" selec	ts" "External sensor". This commun	ication object is used to back	feed the actual t	emperature 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 commun	ication object is enabled when the par	ameter " Ventilation system	" selects " Genera	l " and at the same
time "Channe	el X" (X=1~16) and "Setting fan speed	d" select "Enabled" . Obj.1:	This communica	tion object is used to
back feed the	setting inlet fan speed message of ve	ntilation system channel 1 tc	the bus.Obj.2: T	his communication
object is used	to send the setting outlet fan speed s	status of ventilation system c	hannel 1.	
2058	Channel 1-Ventilation system	Func switch-Input	1bit	C, W,T,U
2059	Channel 1-Ventilation system	Func switch-Output	1bit	С,R, Т
This commun	ication object is enabled when the par	ameter " Ventilation system	" selects " Genera	l " and at the same
time "Channe	I X" (X=1~16) and "Setting function s	witch" select "Enabled" . Ob	j.1 : This commun	ication object is used
to back feed t	he inlet fan switch messages of ventila	tion system channel 1 to the	bus. Obj.2 : This co	ommunication object
is used to sen	d the status of the outlet fan switch fo	or 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 commun	ication object is enabled when the par	ameter " Ventilation system	" selects " Genera	I " 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 send the heating exchange status of channel 1				
for the ventila	tion system. Obj.2: This communicati	on object is used to back fee	ed the heat excha	nge 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" ($X=1\sim16$) selects "Enabled", then "Heat exchange function " selects "Disabled=0/Enabled=1 " or " Disabled=1/Enabled=0" . Obj.1: This communication object is used to 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 alarm status of 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
		and the second sec	
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 <mark>低</mark>
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
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 1氏
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 communication object is enabled when the parameter " HVAC function " selects " 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	2464 Channel 1-HVAC Status heat Control-1bit 1bit C,W,T,U					
This communication object is enabled when the parameter " HVAC function " selects " General " and at the same time						

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"Channel X" (X=1~16) and "Heat/cool control " select "Enabled". Obj.1: This communication object is used to send the heating status of air conditioner channel 1 via 1 bit. Obj.2: This communication object is used to back feed the heating message of the air conditioner channel 1 to the bus via 1 bit.

2465	Channel 1-HVAC	Heat control-1byte	1byte	C,R, T
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 PI 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.

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 Pl 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	С,R, Т
2474	Channel 1-HVAC	Status heat/Cool control-1byte	1byte	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 con	trol "select "Enabled", then "Type c	of HVAC cont	rol " 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	C,R, T
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 control " select "Enabled". Obj.1: This communication object is used to send the status of fan speed 1 of air conditioner channel 1. Obj.2: This communication object is used to send the status of fan speed 2 of air conditioner channel 10bj. 3: This communication object is used to send the status of fan speed 3 of air conditioner channel 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 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 "1bit " and "Status fan speed control for 1bit" selects " "Enabled ". Obj.1: This communication object is used to back feed the fan speed message 1 of air conditioner channel 1 to the bus via 1byte. Obj.2: This communication object is used to back feed the fan speed message 2 of air conditioner channel 1 to the bus via 1byte. Obj.3: This communication object is used to back feed the fan speed message 3 of air conditioner channel 1 to the bus via 1byte.

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 Channel 1-HVAC	Status fan speed-1byte	1byte	C, W,T,U
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Electricals

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" and " Indoor temperature source" selects "External 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
2485	Channel 1-HVAC	Heat and cool mode-Output	1bit	С,R, Т

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 communication object is used to back feed the heating and cooling input mode messages of air conditioner channel 1 to the bus . Obj.2: This communication object is used to send the status of the heating and cooling output modes of air conditioner 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 communication object is used to back feed the heating and 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
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2491	Channel 1-HVAC	Setting fan speed-Output	1byte	С,R, Т				
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.								
2492Channel 1-HVACFunc switch-Input1bitC,W,T,U								
2493 Channel 1-HVAC Func switch-Output 1bit C,R, T								
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	on switch " select "Enabled" . Obj.1 : 1	This commun	ication object is used				
to back feed the se	etting input switch function r	nessage of air conditioner channel 1 t	o the bus via	1byte.Obj.2: This				
communication ob	pject is used to send the state	us of the setting output switch functio	n of air cond	itioner 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	erature "select "Enabled" . Obj.1: Thi	s communica	tion object is used to				
back feed the setti	ing 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 communication object of " Channel X- HVAC " is the same as above (X=1~16).								



7.8 Background music

■≵ 3006	Channel 1-Backgro Unblocking/Blocking	1 bit C - W T U enable 低
■≵ 3007	Channel 1-Backgro Power switch	1 bit C R - T - switch 低
3008	Channel 1-Backgro Status power switch	1 bit C - W T U switch 低
₹ 3009	Channel 1-Backgro Play / Pause	1 bit C R - T - start/stop 低
3010	Channel 1-Backgro Play / Pause	1 bit C - W T U start/stop 低
3011	Channel 1-Backgro Previous / Next song	1 bit C R - T - up/down 低
3012	Channel 1-Backgro Dec / Add volume	1 bit C R - T - 低
3015	Channel 1-Backgro Play mode	1 byte C R - T - 低
3016	Channel 1-Backgro Status play mode	1 byte C - W T U 低
3017	Channel 1-Backgro Play progress	1 byte C R - T - 低
3018	Channel 1-Backgro Status play progress	1 byte C - W T U 低
3019	Channel 1-Backgro Music source	1 byte C R - T - 低
₹ 3020	Channel 1-Backgro Status music source	1 byte C - W T U 低
3021	Channel 1-Backgro Music mute	1 bit C R - T - switch 低
3022	Channel 1-Backgro Status music mute	1 bit C - W T 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	C,R, T			
3008	Channel 1-Background music	Status power switch	1bit	C, W,T,U			
3009	Channel 1-Background music	Play / Pause	1bit	C,R, T			
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			
3016	Channel 1-Background music	Status play mode	1byte	C, W,T,U			
3017	Channel 1-Background music	Play progress	1byte	C,R, T			
3018	Channel 1-Background music	Status play progress	1byte	C, W,T,U			
3019	Channel 1-Background music	Music source	1byte	C,R, T			
3020	Channel 1-Background music	Status music source	1byte	C, W,T,U			
3021	Channel 1-Background music	Music mute	1bit	C,R, T			
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 \approx 16) selects "Enabled". Obj 1: This communication object is used to back feed the blocking value							

"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 decreasing/increasing volume of background music channel 1, Obj.9: This communication object is used to send the Play Mode message of background music channel 1; 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 send the status of the play progress of background music channel 1; Obj.11: This communication object is used to send the play progress message of background music channel 1; Obj.11: 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 send the status of the music source for background music channel 1; Obj.13: 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 send the status of the music source for background music channel 1; Obj.13: This communication object is used to send the status of the music source for background music channel 1; Obj.15: This communication object is used to send the status of the music mute for 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 C - W T U enable 低	
3279	Channel 1-Air quality Item 1, AQI	2 bytes C - W T U 低	
3280	Channel 1-Air quality Item 2, AQI	2 bytes C - W T U 低	
■2 3281	Channel 1-Air quality Item 3, AQI	2 bytes C - W T U 低	
■≵ 3282	Channel 1-Air quality Item 4, AQI	2 bytes C - W T U 低	
3283	Channel 1-Air quality Item 5, AQI	2 bytes C - W T U 低	
3284	Channel 1-Air quality Item 6, AQI	2 bytes C - W T U 低	
■≵ 3285	Channel 1-Air quality Item 7, AQI	2 bytes C - W T U 低	
■≵ 3286	Channel 1-Air quality Item 8, AQI	2 bytes C - W T U 低	
3287	Channel 1-Air quality Item 9, AQI	2 bytes C - W T 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 chanr	of air quality channel 1 to the bus;							
3279Channel 1-Air qualityItem 1, AQ12bytesC, 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

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

Figure 7.10

		ligare /.io						
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	Item 3, Current	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 par	ameter " Air quality " selects	" General " and a	t the same time				
"Channel X" (X=1)	~16) selects "Enabled", then "	Items Y function in List displa	y" (Y=1~9) selec	ts "Enabled" . Obj.1:				

"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 quality 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

■≵ 1190	- Time function 1	Output - 1 bit	1 bit	С	R	-	Т	4	switch	低	
■≵ 1191	Time function 1	Disabled/Enabled	1 bit	С	-	W	Т	U	enable	低	

Figure 7.11

1190	Time function 1	Output -1 bit	1bit	C,R, T
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

	5	2								
1222	Scene module 1	Scene	1 byte	С	2	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	\simeq	W	Т	121	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	Ť	-	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	\sim	W	Т	121	switch	低



1222	Scene module 1	Scene	1 byte	С	÷	W	Т	U	scene cont低
1223	Scene module 1	Output 1-1 byte	1 byte	С	-	W	Т	-	percentag 低
1224	Scene module 1	Output 2-1 byte	1 byte	С	σ.	W	Т	150	percentag 低
1225	Scene module 1	Output 3-1 byte	1 byte	С	4	W	Т	- 21	percentag 低
1226	Scene module 1	Output 4-1 byte	1 byte	С	-	W	Т	(14)	percentag 低
1227	Scene module 1	Output 5-1 byte	1 byte	С	<i>c</i>	W	Т	-	percentag 低
1228	Scene module 1	Output 6-1 byte	1 byte	С	σ.	W	Т	(73)	percentag 低
1229	Scene module 1	Output 7-1 byte	1 byte	С	4	W	Т	-	percentag 低
1230	Scene module 1	Output 8-1 byte	1 byte	С	-	W	Т	-	percentag 低

Figure 7.12

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	С,R, Т
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 bit" 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 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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