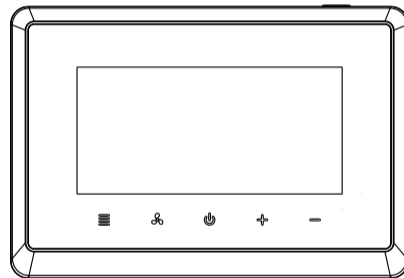


T29MTW-7-S-485

OPERATING  
INSTRUCTION

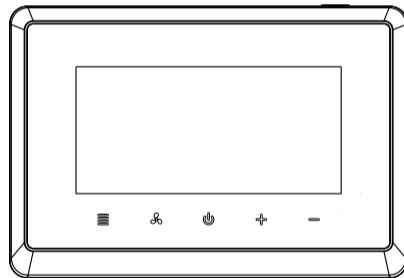
OPERATING  
INSTRUCTION



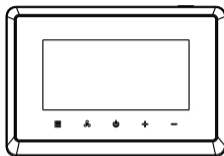
T29MTW-7-S-485

<b>Product Introduction</b>	
Specifications -----	02
Thermostat's Appearance-----	03
<b>Installation and Programming</b>	
Thermostat Installation -----	04
First Time Setting -----	05
System Setting -----	06
The Wiring Diagram -----	08
Programming Settings -----	16
Fan Speed Setting -----	25
Cooling and Heating Modes -----	26
Child Lock -----	27
Configuration Menu -----	28
Errod Warning -----	41
Window/Room Card -----	41

T29MTW-7-S-485



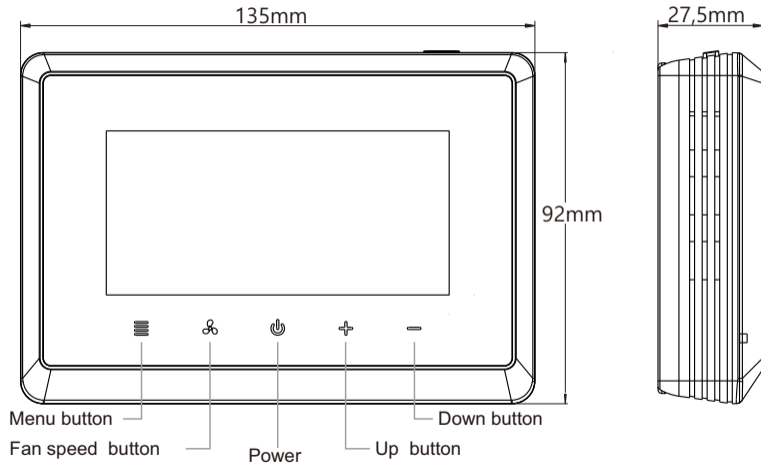
## Specifications



(T29MTW-7-S-485)  
thermostat

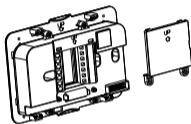
- Power source : 100-240VAC 50/60Hz  
18-30VAC 50/60Hz
- IP Rating : IP21
- Temperature setting range : 5°C~35°C
- Temperature setting accuracy: 0.5°C
- Temperature display range : 0°C~50°C
- Temperature accuracy : 0.1°C
- Operation temperature range : 0°C~50°C
- Shipping & storage temperature : -10°C ~ 60°C
- Output : Fan Relay Load I<sub>max</sub> 250V/8(5)A  
Compressor/Valve Relay Load I<sub>max</sub> 250V/5(3)A

## Thermostat's appearance

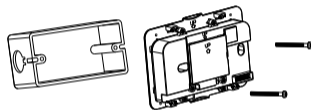


## Thermostat Installation

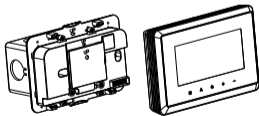
1. Unscrew terminal protective jacket then wiring.



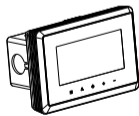
2. After wired the terminal protective jacket install the screw.



3. Install and fasten foundation, embed in display module.

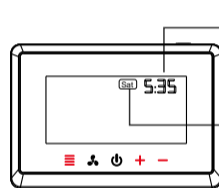


4. Installation finished.



## First Time Setting

Set the current actual time and week.



Time setting: press "+" or "-" to adjust the time, short press "☰" and switch to the week setting.

Week setting: press "+" or "-" to adjust the week, short press "☰" and switch to the system setting.

## System Setting

(Multistage system )

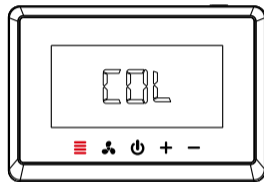


1.press "+" or "-" to select the primary system .

CP1:single stage DX system

CP2:two stage DX system

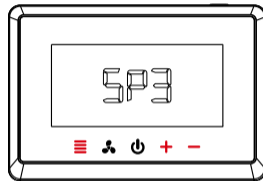
FAN:Fan coil system



2.press "≡" to confirm the selection and switch to secondary system selection.

COL:cooling system

ALL:heat /cool system

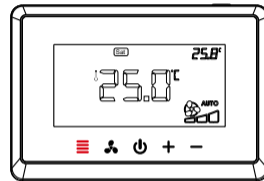


3.Select secondary and tertiary systems in the same way as above.

(If there is a need to select the tertiary system)

SP1:single speed fan

SP3:3 speed fan



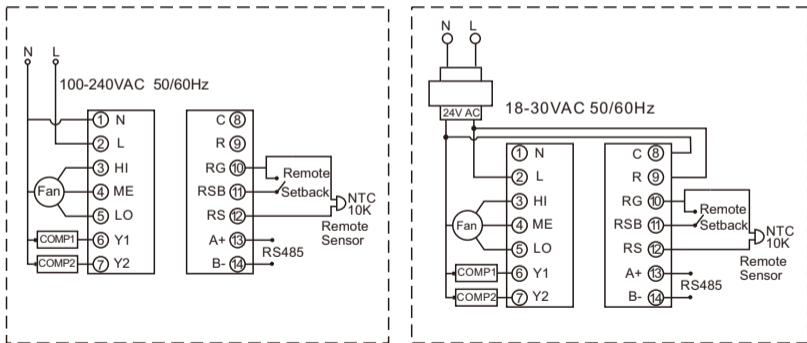
4.System setup completed, press "≡" to return to the main interface

## The Wiring Diagram

Different wiring diagram correspond to different systems

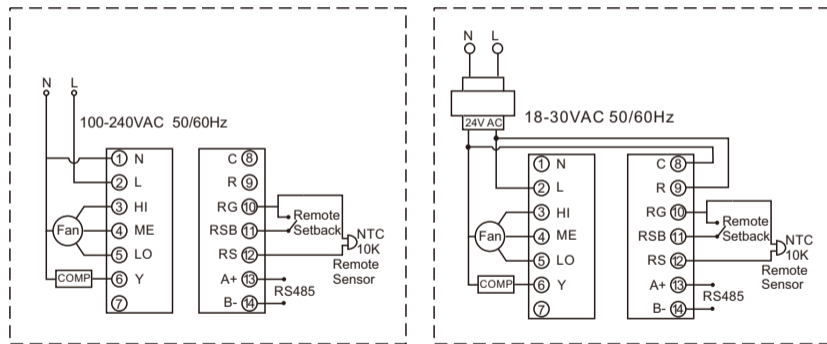
Application 1: 3 speed fan / two stage DX system

(system selection: **CP2-COL-SP3** )

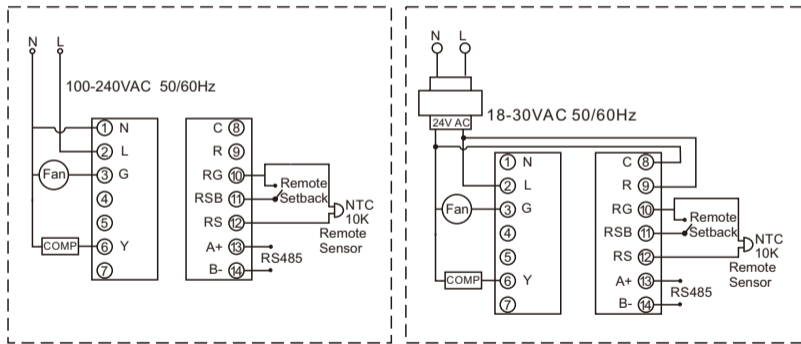


Application 2: 3 speed fan / single stage DX system

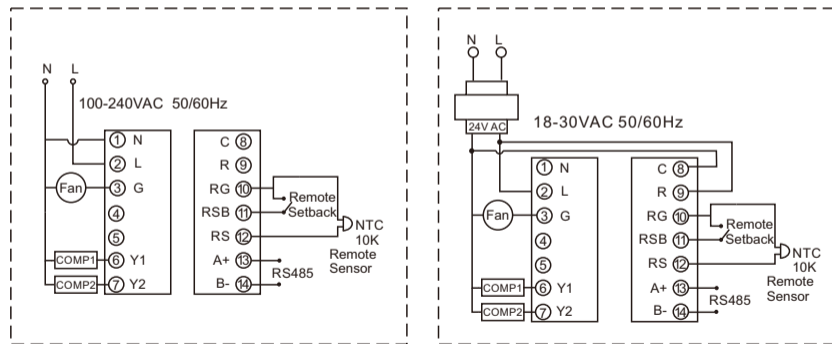
(system selection: **CP1-SP3** )



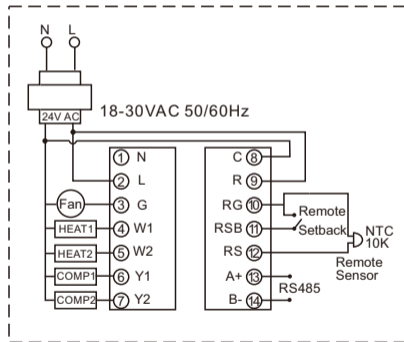
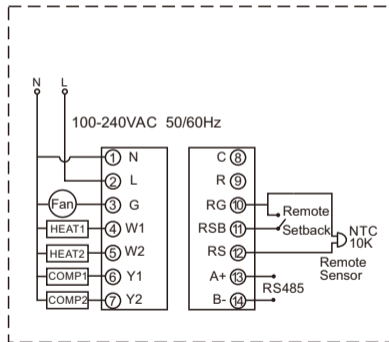
Application 3:  
single speed fan / single stage DX system  
(system selection: **CP1-SP1**)



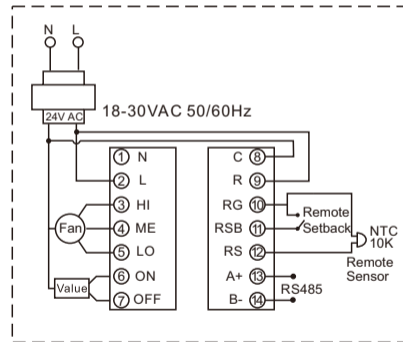
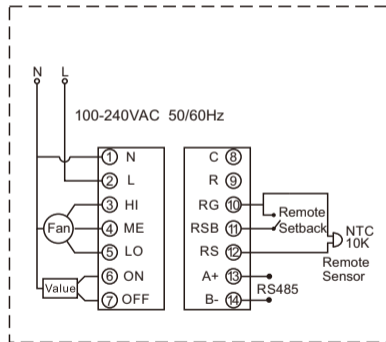
Application 4:  
single speed fan / two stage DX system  
(system selection: **CP2-COL-SP1**)



Application 5:  
single speed fan / 2 heat / cool system  
(system selection: **CP2-ALL**)

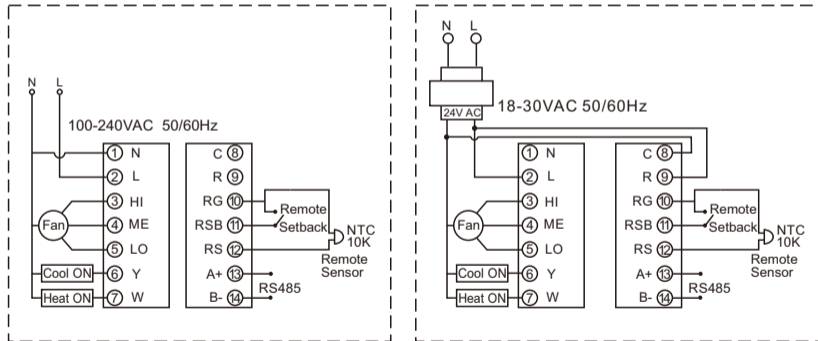


Application 6:  
2 pipe/3 wire fan coil system  
(system selection: **FAN-FA2**)



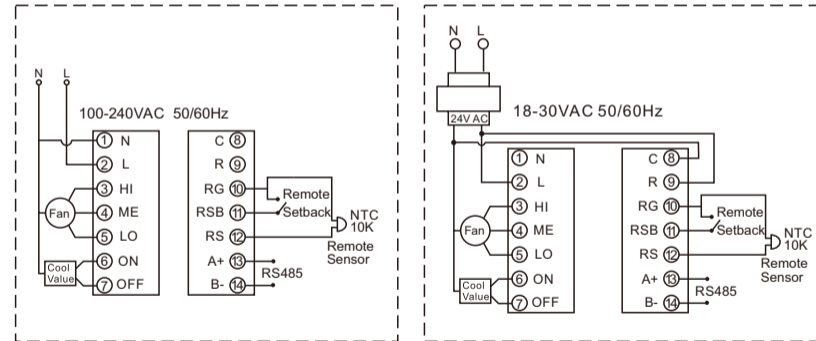
### Application 7:

4 pipe / 2 wire fan coil system  
(system selection: **FAN-FA4**)

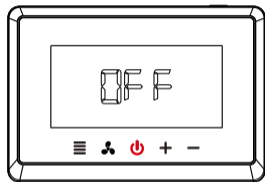



### Application 8:

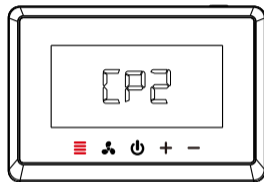
Single cool / 3 wire fan coil system  
(system selection: **FAN-COL**)




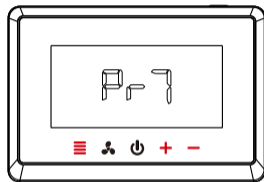
## Programming Settings




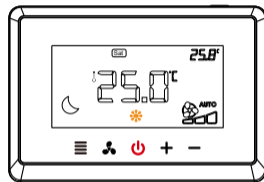
1. Short press the power button “”, and then the screen shows “OFF”.





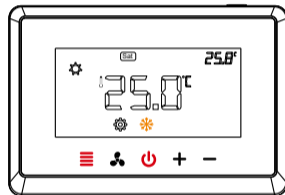
2. Long press the menu button “” for 5s until the system selection interface is displayed and select the system set up previously .



3. After system selection, select programming mode: press “+” or “-” for switch the programming mode (Pr0/Pr2/Pr7), and press “” to confirm and save the options.  
Pr0: Non-programmable  
Pr2: Work days+Friday&Saturday  
Pr7: 7 days individually programming



4. Short press the power button “”, and the screen shows “OFF”, then short press the power button “” again to enter the programming main interface

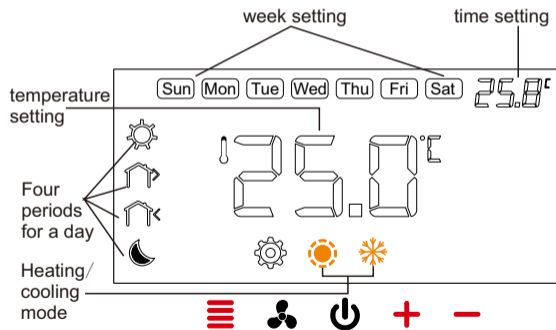


5. Long press the menu button “≡” for 5s to enter the programming setting.  
 please Keep all the buttons lights on before performing this operation, if not, please press “⏻”

## 7 days programming-Time/temperature setting

Separate programming settings for each day (Pr7)  
 (the programming setting are different from Sunday to Monday )

The are 4 periods each day by default







1. Week setting
2. Time setting
3. Temperature setting


press “+” “-” to adjust the week / time / temperature, short short press “≡” to save the setting and switch to next period setting.

\* long press “≡” for 5s to switch the heating mode or cooling mode

Default setting (heating)





week periods	Sun	Mon	Tue	Wed	Thu	Fri	Sat
 6:00 Morning	22°C	22°C	22°C	22°C	22°C	22°C	22°C
 8:00 Out door	16°C	16°C	16°C	16°C	16°C	16°C	16°C
 18:00 Back home	22°C	22°C	22°C	22°C	22°C	22°C	22°C
 22:00 Night	16°C	16°C	16°C	16°C	16°C	16°C	16°C



Exit programming settings : short press power button “

20

Default setting (cooling)

week periods	Sun	Mon	Tue	Wed	Thu	Fri	Sat
 6:00 Morning	25°C	25°C	25°C	25°C	25°C	25°C	25°C
 8:00 Out door	28°C	28°C	28°C	28°C	28°C	28°C	28°C
 18:00 Back home	25°C	25°C	25°C	25°C	25°C	25°C	25°C
 22:00 Night	28°C	28°C	28°C	28°C	28°C	28°C	28°C

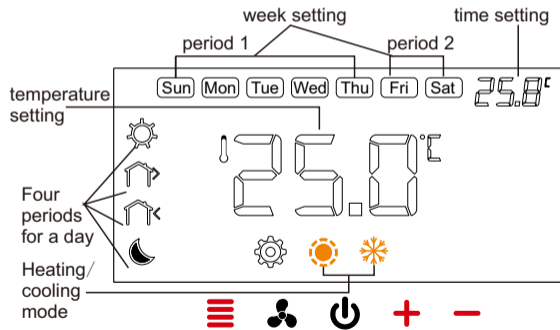


Restore default setting: long press “+” and “-” for more than 5s until the screen shows “DEF” and the “DEF” flash 3 times.

## 2 periods programming-Time/temperature setting

There are two time periods to program in a week (Pr2)  
 (period 1:from Sunday to Thursday  
 period 2:from Friday to Saturday)

The are 4 periods each day by default



1. Week setting
2. Time setting
3. Temperature setting

press “+”“-” to adjust the week / time / temperature, short press “≡” to save the setting and switch to next period setting.



long press “≡” for 5s to switch the heating mode or cooling mode

Default setting (heating)

week periods	Sun	Mon	Tue	Wed	Thu	Fri	Sat
6:00 Morning			22°C				22°C
8:00 Out door			16°C				16°C
18:00 Back home			22°C				22°C
22:00 Night			16°C				16°C



Exit programming settings : press power button “⏻”  
 Return to the previous step : short press fan speed button “🌀”

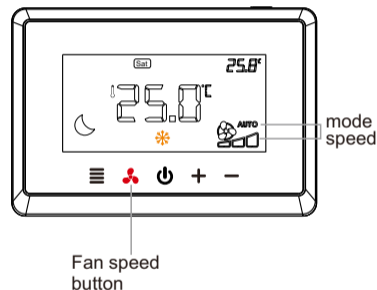
### Default setting (cooling)

week periods	Sun	Mon	Tue	Wed	Thu	Fri	Sat
6:00 Morning			25°C			25°C	
8:00 Out door			28°C			28°C	
18:00 Back home			25°C			25°C	
22:00 Night			28°C			28°C	



Restore default setting: long press “+” and “-” for more than 5s until the screen shows “DEF” and the “DEF” flash 3 times.

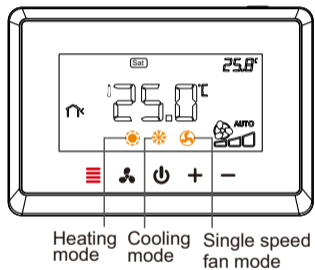
### Fan speed setting



Fan speed mode setting : short press “” for switching “AUTO” or “ON” mode.

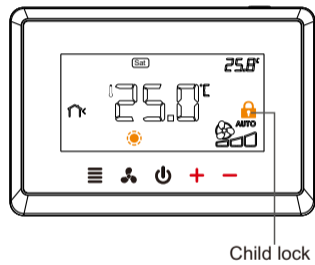
AUTO: Automatic mode  
(High speed, Med speed, Low speed)  
ON: Manual mode

## Cooling and Heating Modes



Short press the menu button “☰” for switching cooling mode “☀❄” or heating mode “☀” or single speed fan mode “🌀”

## Child Lock



Press the “+” and “-” buttons for 5s at the same time to open / close the child lock “🔒”.

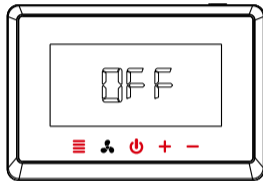
## Configuration Menu

The configuration menu setting :

1. In the state of shutdown, long press menu button “≡” for 5s to enter the configuration parameter programming setting.

2. Press “+” or “-” to select the configuration parameter setting, then press “≡” to save and switch to the next item setting.

3. After all the parameters are set up, press power button “⏻” exit the setting and return to the OFF stage.



- \* 1. The thermostat will exit the configuration parameter setting automatically and return to the shutdown state if there is no any operation within 30s.
- 2. Restore default setting: during setup, long press “+” and “-” for more than 5s until the screen shows “dEF” and the “dEF” flash 3 times.

## Configuration Menu-FAN coil system

Fan coil system:

Application 6: (page 13)  
2 pipe / 3 wire fan coil system  
(system selection: **FAN-FA2**)

Application 7: (page 14)  
4 pipe / 2 wire fan coil system  
(system selection: **FAN-FA4**)

Application 8: (page 15)  
Single cool /  
3 wire fan coil system  
(system selection: **FAN-COL**)

Parameter Item	Description	Parameter options	Default
3	Programming	Pr0:Non-programmable Pr2:Work days + Friday & Saturday Pr7:7 days individually program	Pr0
4	Temperature adjust value	-4°C~4°C	0
5	Maximum setting temperature	24°C~35°C	30°C
6	Minimum setting temperature	5°C~24°C	20°C
7	Power off memory	rE: power on recover rd: power on turn off	rE

Parameter Item	Description	Parameter options	Default
8	Display backlight mode	1:backlight is normal 2:backlight will keep on always	2
9	Fan stop option	ON OFF	ON
10	Energy-saving temperature for heating	5°C~18°C	18°C
11	Energy-saving temperature for cooling	25°C~30°C	28°C
12	Room card / window card mode	SC : activate the room card energy mode by open circuit OC : activate the room card energy mode by close circuit SCC : activate the window card energy mode by open circuit OCC : activate the window card energy mode by close circuit OO : cancel the room/window card function	SC
13	The valve start dead band options	1°C~5°C	1°C

Parameter Item	Description	Parameter options	Default
14	The valve stop running options	1°C~5°C	1°C
15	The address of 485	1~254	1



There is no **item 10** (Energy-saving temperature for heating) for Single cool / 3 wire fan coil system (Application 8, **FAN-COL** )

## Configuration Menu-Single compressor system

Single compressor system:

Application 2: (page 9)

3 speed fan /

single compressor system

(system selection: **CP1-SP3**)

Application 3: (page 10)

single speed fan /

single compressor system

(system selection: **CP1-SP1**)

Parameter Item	Description	Parameter options	Default
3	Programming	Pr0:Non-programmable Pr2:Work days + Friday & Saturday Pr7:7 days individually program	Pr0
4	Temperature adjust value	-4°C~4°C	0
5	Maximum setting temperature	24°C~35°C	30°C
6	Minimum setting temperature	5°C~24°C	20°C
7	Power off memory	rE: power on recover rd: power on turn off	rE

Parameter Item	Description	Parameter options	Default
8	Display backlight mode	1:backlight is normal 2:backlight will keep on always	2
9	Energy-saving temperature for cooling	25°C~30°C	28°C
10	Room card/windowdown card mode	SC : activate the room card energy mode by open circuit OC : activate the room card energy mode by close circuit SCC : activate the windowdown card energy mode by open circuit OCC : activate the windowdown card energy mode by close circuit OO : cancel the room/windowdown card function	SC
11	The valve start dead band options	1°C~5°C	1°C
12	The valve stop running options	1°C~5°C	1°C

parameter Item	Description	Parameter options	Default
13	Compressor restart delay cycle setting	0 min ~ 5 min	3min
14	The address of 485	1~254	1

## Configuration Menu-two compressor system

Two compressor system-cooling:

Application 1: (page 8)

3 speed fan / two compressor system

(system selection: **CP2-COL-SP3**)

Application 4: (page 11)

single speed fan / two compressor system

(system selection: **CP2-COL-SP1**)

parameter Item	Description	Parameter options	Default
4	Programming	Pr0:Non-programmable Pr2:Work days + Friday & Saturday Pr7:7 days individually program	Pr0
5	Temperature adjust value	-4°C~4°C	0
6	Maximum setting temperature	24°C~35°C	30°C
7	Minimum setting temperature	5°C~24°C	20°C
8	Power off memory	rE: power on recover rd: power on turn off	rE

Parameter Item	Description	Parameter options	Default
9	Display backlight mode	1:backlight is normal 2:backlight will keep on always	2
10	Energy-saving temperature for cooling	25°C~30°C	28°C
11	Room card / window card mode	SC : activate the room card energy mode by open circuit OC : activate the room card energy mode by close circuit SCC : activate the window card energy mode by open circuit OCC : activate the window card energy mode by close circuit OO : cancel the room/window card function	SC
12	The first compressor start dead band options	1°C~5°C	1°C
13	The first compressor stop running options	1°C~5°C	1°C

Parameter Item	Description	Parameter options	Default
14	The first compressor restart delay cycle setting	0 min ~ 5 min	3min
15	The second compressor start dead band options	1°C~5°C	1°C
16	The second compressor stop running options	1°C~5°C	1°C
17	The second compressor restart delay cycle setting	0 min ~ 5 min	3min
18	The second compressor start delay cycle setting	1 min ~ 5 min	1min
19	The address of 485	1~254	1



For items 15 and 16, the stop running temperature can not be greater than the starting dead band temperature

Two compressor system-heating/cooling:

Application 5: (page12)

single speed fan / 2 heat/cool system

(system selection: **CP2-ALL**)

Parameter Item	Description	Parameter options	Default
3	Programming	Pr0:Non-programmable Pr2:Work days + Friday & Saturday Pr7:7 days individually program	Pr0
4	Temperature adjust value	-4°C~4°C	0
5	Maximum setting temperature	24°C~35°C	30°C
6	Minimum setting temperature	5°C~24°C	20°C
7	Power off memory	rE: power on recover rd: power on turn off	rE

Parameter Item	Description	Parameter options	Default
8	Display backlight mode	1:backlight is normal 2:backlight will keep on always	2
9	Energy-saving temperature for heating	5°C~18°C	18°C
10	Energy-saving temperature for cooling	25°C~30°C	28°C
11	Room card / window card mode	SC : activate the room card energy mode by open circuit OC : activate the room card energy mode by close circuit SCC : activate the window card energy mode by open circuit OCC : activate the window card energy mode by close circuit OO : cancel the room/window card function	SC
12	The first compressor start dead band options	1°C~5°C	1°C

Parameter Item	Description	Parameter options	Default
13	The first compressor stop running options	1°C~5°C	1°C
14	The first compressor restart delay cycle setting	0 min ~ 5 min	3 min
15	The second compressor start dead band options	1°C~5°C	1°C
16	The second compressor stop running options	1°C~5°C	1°C
17	The second compressor restart delay cycle setting	0 min ~ 5 min	3 min
18	The second compressor start delay cycle setting	1 min ~ 5 min	1min
19	The address of 485	1~254	1

### Errod Warning

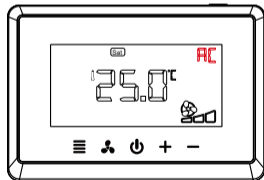


Room Temp(inside room sensor) broken or short cut,the thermostat will have "Err"

### Window/Room Card



Window card function open, the thermostat will have "ASB"



Room card function open, the thermostat will have "AC"