SEMTIC HEATING

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Luxury Air Source Heat Pump

- Touch Screen Operation Manual -

AXAO-06 AXAO-08 AXAO-11 AXAO-14

AXAO-14/3 AXAO-16/3 AXAO-21/3

Operation instruction

1. Main page

1.1 

It shows time and date at top-left zone, touch the top-left zone and there will show adjustment page and you could adjust date and time.

1.2 

Top-middle zone “A8” is zone for showing error code.

1.3 

Top-right dot is indication of external signal status.

The dot will be red when system external signal is available, and the start of air-conditioning system is decided by the signal and wire controller; The dot will be gray if external signal is not available, then the start of air-conditioning system is only controlled by wire controller.

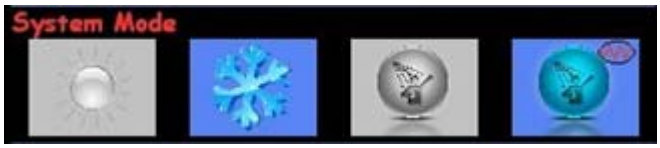
1.4 

The 2nd column: Actual temperature and setting temperature for air-conditioner and domestic hot water, ambient temperature. Get into adjustment menu by touching corresponding area;

When the external signal 0-10V control is active, the dot at left of setting temp for air-conditioner will be red, the setting temp for air-conditioner is transferring data of signal voltage and can not be adjusted by touch screen controller;

The dot at left side of setting temp for air-conditioner will be gray if signal voltage is below 0.3 volt, the air-condition side is at standby situation.

it shows outdoor ambient temperature

1.5 

The 3rd column: System mode, orderly（left to right） is space heating, space cooling, domestic hot water heating, compulsive domestic hot water heating; Corresponding icon will be on when the mode is running， and corresponding icon is dark when the mode is off.

1.6 

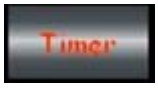
The 4th column: System status, orderly (left to right) is defrost, anti-freeze, error, key lock. The corresponding icon will flash when getting into the status. Normally the icons are dart.
Last icon is a “key” to lock screen, any touch to screen is not available if you lock screen.

1.7 Buttons at right side of screen:

Touch button “screen off”, screen will be off, touch any place of screen and the screen will be on again;

Touch button “status” to get into system status checking page;

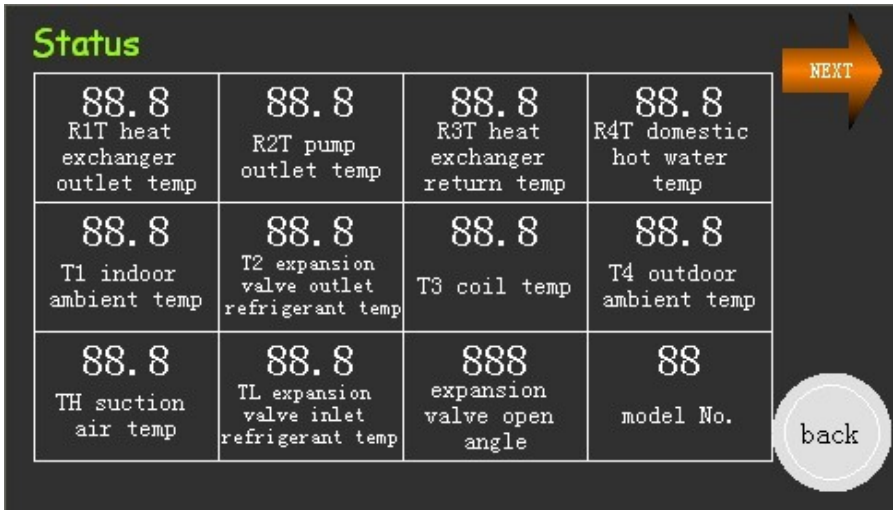
Touch button “parameter” to get into parameter adjustment page;

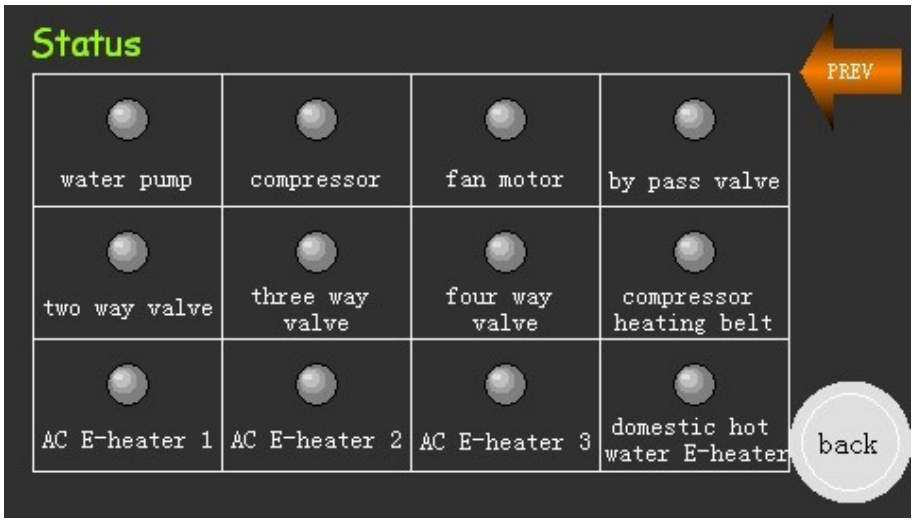


Touch button “Timer” to get into time setting page;

Touch “help” button, the error code explanation could be shown.

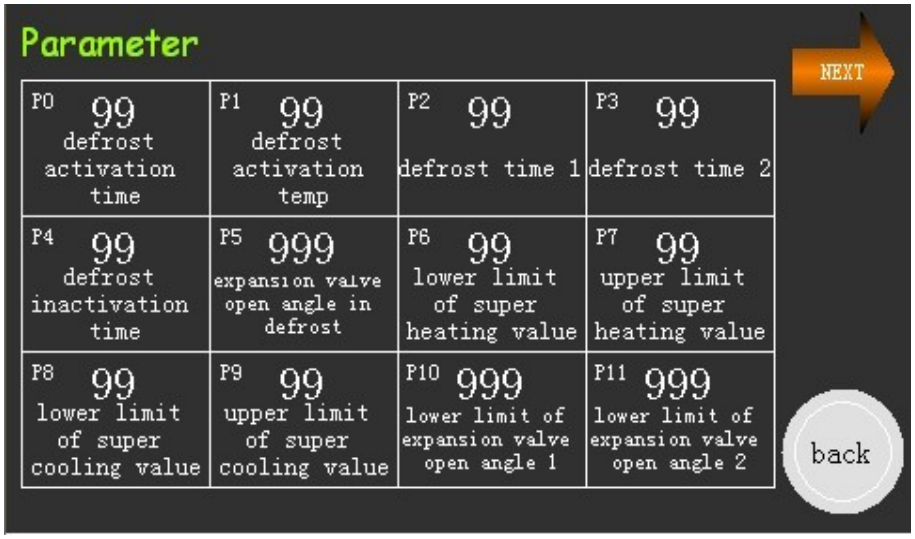
2. Status page

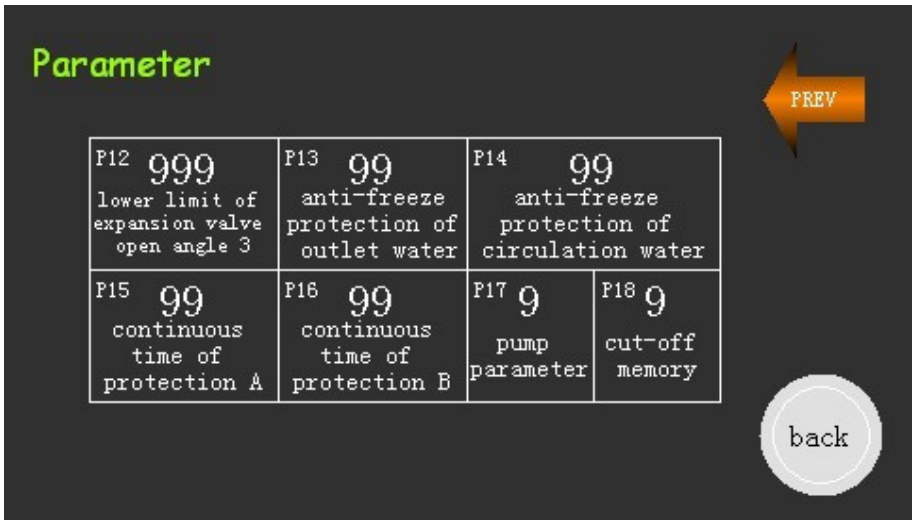




There are 2 pages for status, next page is for status of relays, dot is red when the relay is switch on, dot is gray when the relay is switch off.

3. Parameter page



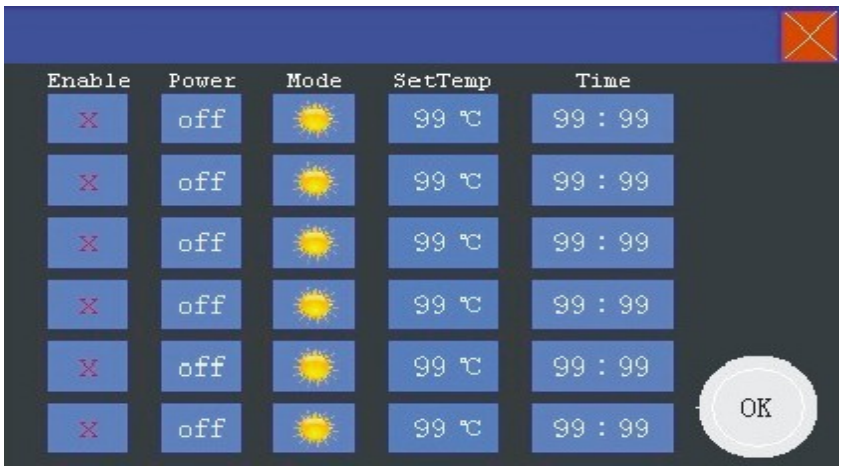


4. Timer setting page.

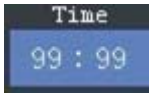
Touch button “reset” to cancel all “Enable” setting.

Get into weekly time setting menu by touching each weekly day.

The menu for space heating or cooling



The menu for domestic hot water or compulsive domestic hot water



There are 6 time setting points for each day.

Attention: please touch accurate hour zone 

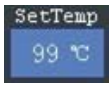
to set hour, and touch accurate minute and second zone 

to set minute and second.

To set air-conditioner/domestic hot water on/off,

To set timer for mode space heating or space cooling

To set timer for mode domestic hot water or compulsive domestic hot water,



To set air-conditioner/domestic hot water temp

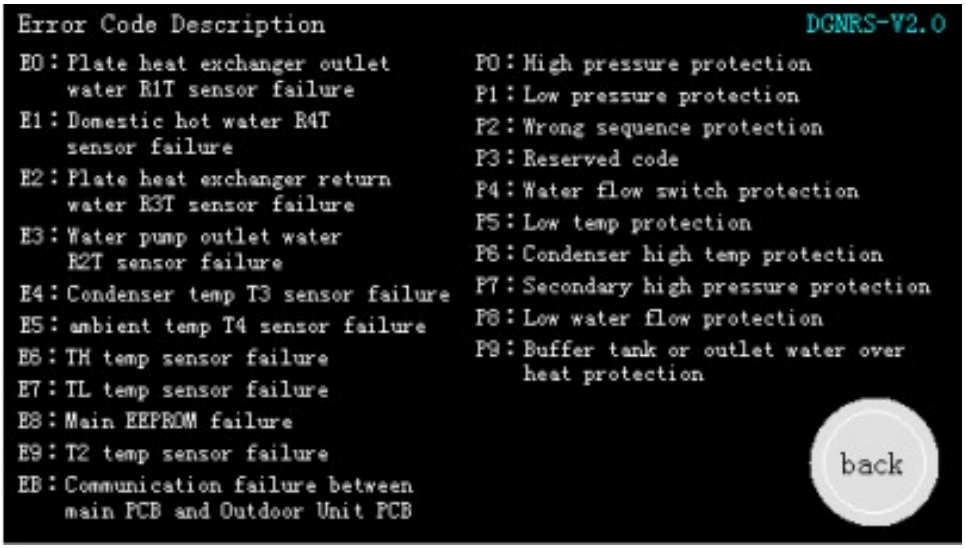
To enable or disable the timer setting

Press “OK” to keep all setting values when the settings done.


Close the menu and quit without saving any settings.

Help Page

The page describes error code.



Code	Description
E0	Plate heat exchanger outlet water R1T sensor failure
E1	Domestic hot water R4T sensor failure
E2	Plate heat exchanger return water R3T sensor failure
E3	Water pump outlet water R2T sensor failure
E4	Condenser temp T3 sensor failure
E5	Outdoor ambient temp T4 sensor failure
E6	TH temp sensor failure
E7	TL temp sensor failure
E8	Indoor EEPROM failure
E9	T2 temp sensor failure
Eb	Communication failure between main PCB and Outdoor Unit PCB
P0	High pressure protection
P1	Low pressure protection
P2	Wrong sequence protection
P3	Reservation code
P4	Water flow switch protection
P5	Low temp protection
P6	Condenser high temp protection
P7	Secondary high pressure protection
P8	Low water flow protection
P9	Buffer tank elec-heater overheat protection

Parameter table:

NO.	Content	Adjustment range	Step length	Default value
0	defrost activation time	35 ~ 60min	1min	50min
1	defrost activation temperature	-20 ~ 0℃	1℃	-3℃
2	defrost time 1（T4>0）	5 ~ 15min	1min	10min
3	defrost time 2（T4<0）	10 ~ 20min	1min	15min
4	defrost inactivation time	10 ~ 30℃	1℃	15℃
5	open angle in defrost	180 ~240		240
6	lower limit of super heating value	-3 ~ 0		-1
7	upper limit of super heating value	0 ~ 5		2
8	lower limit of super cooling value	-3 ~ 0		0
9	upper limit of super cooling value	0 ~ 5		3
10	lower limit of open angle 1 (T4<15)	40 ~ 180		***
11	lower limit of open angle 2 (15=<T4<30)	40 ~ 180		100
12	lower limit of open angle 3 (T4>=30)	40 ~ 180		175
13	anti-freeze protection of outlet water	-10 ~ 5℃		2℃
14	anti-freeze protection of circulation water	-12 ~ 2℃		2℃
15	accumulation time of protection A	15 ~ 60		30min
16	accumulation time of protection B	5 ~ 30		15min
17	pump parameter	0~1	1	1

*** Parameter 10

Lower limit of open angle 1 default value

6kw/ 8kw	76
11kw	40
14kw	52
16kw	68

Remarks:

For parameter 5, 10, 11, 12, actual using value of open angle is 2 times of display value.

For example, the display value is 100, the real value is100*2= 200.