

**Menu description**

<b>Menu</b>	<b>Menu functions</b>	<b>Set range</b>	<b>Acquiesce</b>	<b>Unit</b>
<b>F1</b>	<b>Temperature setting</b>	<b>Temperature set the minimum to the maximum temperature setting</b>	<b>-5</b>	<b>°C</b>
<b>F2</b>	<b>Control return difference</b>	<b>1~25</b>	<b>2</b>	<b>°C</b>
<b>pro</b>	<b>Management password</b>	<b>0~15</b>	<b>7</b>	<b>/</b>
<b>F3</b>	<b>Compressor startup delay</b>	<b>0~15</b>	<b>3</b>	<b>min</b>
<b>F4</b>	<b>Library temperature sensor calibration</b>	<b>-10~+10</b>	<b>0</b>	<b>°C</b>
<b>F5</b>	<b>Temperature setting minimum value</b>	<b>-50~ Temperature setting value</b>	<b>-20</b>	<b>°C</b>
<b>F6</b>	<b>The maximum temperature setting</b>	<b>Temperature setting value ~85</b>	<b>20</b>	<b>°C</b>
<b>F7</b>	<b>Frost period</b>	<b>0~60</b>	<b>6</b>	<b>hour</b>
		<b>0: Ban frost</b>		
<b>F8</b>	<b>Frost delay start time</b>	<b>0~60</b>	<b>3</b>	<b>min</b>
<b>F9</b>	<b>Frost time</b>	<b>1~90</b>	<b>30</b>	<b>min</b>
<b>F10</b>	<b>Frost stop temperature</b>	<b>0~50</b>	<b>10</b>	<b>°C</b>
<b>F11</b>	<b>After the defrosting time drop</b>	<b>0~60</b>	<b>2</b>	<b>min</b>
		<b>0: Ban defrosting time drop</b>		
<b>F12</b>	<b>Frost type</b>	<b>0: Electric thermalization defrosting</b>	<b>0</b>	<b>/</b>
		<b>1: Hot-gas defrosting</b>		
<b>F13</b>	<b>Frost period calculated</b>	<b>0: Accumulated refrigeration time</b>	<b>1</b>	<b>/</b>
		<b>1: Natural time calculation</b>		
<b>F14</b>	<b>Frost process display</b>	<b>0: Display library temperature sensor value</b>	<b>2</b>	<b>/</b>
		<b>1: When frost shows dEF, frost after delay display library temperature</b>		
		<b>2: Frost and frost when drop all showed that dEF</b>		
<b>F15</b>	<b>Frost sensor calibration</b>	<b>-10~+10</b>	<b>0</b>	<b>°C</b>
<b>F16</b>	<b>Fan work mode</b>	<b>0: And refrigeration with stop, refrigeration after start-up time delay, frost and frost drip close</b>	<b>0</b>	<b>/</b>
		<b>1: Continuous running, frost and frost drip close</b>		
<b>F17</b>	<b>Fan startup delay</b>	<b>0~60</b>	<b>1</b>	<b>min</b>
<b>F18</b>	<b>Library temperature sensor failure ratio key choice</b>	<b>0: Cancel key proportion</b>	<b>1</b>	<b>/</b>
		<b>1: Start key proportion</b>		
<b>F19</b>	<b>Proportional refrigeration stop time</b>	<b>1~60</b>	<b>15</b>	<b>min</b>
<b>F20</b>	<b>Proportional refrigeration turn on time</b>	<b>1~60</b>	<b>30</b>	<b>min</b>
<b>F21</b>	<b>Fan.alarm output control mode selection</b>	<b>0: Allow fan relay output</b>	<b>1</b>	<b>/</b>
		<b>1: Allow the alarm relay output</b>		
<b>F22</b>	<b>Alarm value when exceed lower limit</b>	<b>-50~ Library WenChao limit alarm value</b>	<b>-10</b>	<b>°C</b>
<b>F23</b>	<b>Alarm value when exceed upper limit</b>	<b>Library WenChao referrals alarm value ~70</b>	<b>20</b>	<b>°C</b>
<b>F24</b>	<b>Temp. alarm delay</b>	<b>0~60</b>	<b>10</b>	<b>min</b>
<b>F25</b>	<b>After electrify library temperature first overtemperature limit alarm time delay</b>	<b>0~99</b>	<b>90</b>	<b>min</b>

### System code, reason and action

**Sensor fault alarm:** when the temperature probe circuit appear short circuit, open circuit fault, controller start probe fault alarm mode, close all implementation status, buzzer sound, and temperature adjustment sensor fault indication E1, defrost sensor fault indication E2, press any key, which can eliminate the buzzer sonorant, failure to return to normal after the termination of the work mode.

**Overtemperature limit alarm:** when the temperature measured value beyond temperature measurement range, controller start overtemperature limit fault alarm mode, close all implementation status, buzzer rang, the library WenChao high temperature alarm digital tube display tH, the library temperature ultra-low temperature alarm digital tube display tL, press any key, which can eliminate the buzzer sonorant, when the temperature response to the measuring range, to return to normal working mode.

### Safety rules

★ Risk:

1. Strictly distinguish between sensor lead, power lines and output relay interface, do not meet wrong, relay do not overload;
2. All the connection change must be off with power supply situation.

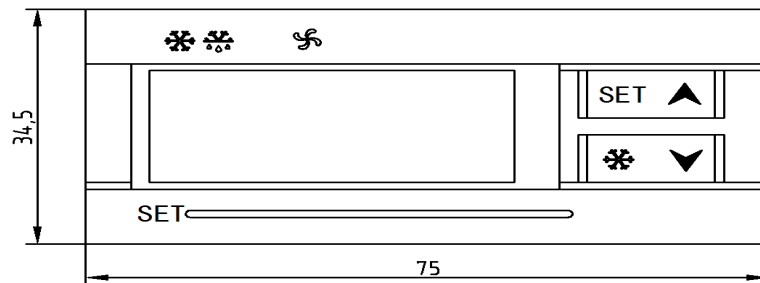
★ Warning:

This controller is prohibited in the water or excessive moisture environment use, banned in high temperature, strong electromagnetic interference, strong corrosive environment use.

★ Note:

1. The power supply voltage should be labeled and controller of the voltage phase is consistent, and ensure the stability of the power supply voltage,
2. To avoid possible interference, it is suggested that sensor wire and power to keep appropriate distance.

### Panel diagram



### Wiring diagram

