

If it doesn't adjust to 55, press **Set** key to return to menu time Po, then press the key \star , it will exit from user parameter setting status and return to the temperature measuring and control status.

3) Administrator parameter setting

After enter to the administrator parameter setting, press \star and \downarrow to select menu items (St、Po、rd.....) ;

After select the item, press **Set** key to enter to the current parameter setting, press \star and \downarrow to adjust parameters, and then press **Set** key to return to the menu item.

4) Exit from parameter setting

Under the status of parameter setting, press key or no key operation within 30s, or if Po is not set as 55, press \star key when it displays menu item Po (i.e. password input error), it will save the current parameter value and exit from parameter setting.

5) Turn on/off the controller

Press and hold \odot for 3 seconds to turn on/off the controller.

6) Parameter recovery

In the status of temperature measuring and controlling, press key \downarrow for 10S, display H0 in the digital tube, it will execute one key recovery operation. It could continue to select the parameter recovery items by pressing key \downarrow , and the selection range is H0~H7, press key \odot to execute the parameter recovery and then exit, if there is no parameter recovery operation within 30S, it will automatically exit from the mode without recovery of parameters.

Note: During the operation of one key recovery, it needs a stable power supply. If the power supply is not stable, please electrify the controller again then execute one key recovery.

H0	Give up parameter recovery, no change of each parameter, no display of parameter recovery success code dr
H1	Recovery parameter H1, recovery success display dr
H2	Recovery parameter H2, recovery success display dr
H3	Reserved
H4	Reserved
H5	Reserved
H6	Reserved
H7	Reserved

7) Turn on/off the light

In non-parameter setting status, press \star to turn on/off the light.

8. Control output

1) Turn on/off the controller

In the status of temperature measuring and controlling, press and hold \odot for 3 seconds to turn off the controller, and there will be no display and output.

When the controller is off, press and hold \odot for 3 seconds to enter the status of temperature measuring and controlling.

2) Refrigeration/heating:

Normal status:

HC=0, refrigeration mode:

When the cabinet temperature is higher than the set temperature+ hysteresis temperature, and finish the control load start delay time, the refrigeration will start; When the cabinet temperature is lower than the set temperature, the refrigeration will close.

HC=1, heating mode:

When the cabinet temperature is lower than the set temperature, and finish the control load start delay time, the heating will start; When the cabinet temperature is higher than the set temperature + hysteresis temperature, the heating will close.

Note: In heating model, it needs to set d1 to 0 (Defrost forbidden)

Sensor failure:

A2=0, the function of "Run/stop in a proportional time" is canceled, the control output closes;

A2 \neq 0, the function of "Run/stop in a proportional time" opens, the control output will run and stop periodically according to the set time after the sensor fails.

3) Defrost

If the defrost cycle is not 0, the controller will start defrost when it finishes defrost cycle or it can be manually started. Defrost stops when finish defrost time or it could be manually stopped.

Display during defrost:

d3=0: Display real time cabinet temperature

d3=1: Display dF during defrost

d3=2: Display defrost start temperature during defrost

4) Light

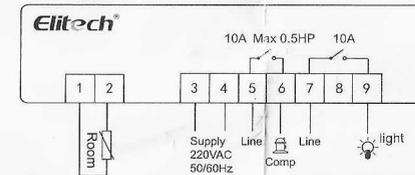
press \star to open the light, and press \star again to close the light.

light relay will pick-up when the light opens, disconnect when the light closes.

5) Code information

Code	Reason	Control output	Remark
E1	sensor failure	Run/stop control output in a proportional time	/
dF	Defrost	With defrost relay: output defrost Without defrost relay: off cycle defrost	/
dr	Parameter recovery	The original parameters will be overwritten by the selected parameters.	Factory operation mode

9. Wiring diagram



10. Safety rules:

★ Refer to the actual product

★ Danger:

- 1) Strictly distinguish the power wire, relay output, sensor down-lead and data line, and the relay could not be overloaded.
- 2) Prohibit connecting the wire terminals without electricity cut-off.

★ Warning:

Prohibit using this unit under the environment of over damp, high temp., strong electromagnetism interference or strong corrosion.

★ Notice:

- 1) The power supply should conform to the voltage value indicated in the instruction, and make sure a steady power supply.
- 2) To avoid the possible interference, the sensor down-lead/data line and power wire should be kept in a proper distance.