RFK1005 Microcomputer Temperature Controller Operating Instructions

Technical data:

1. Operating Voltage: AC110V ±10%

2.Output Load:: 220V/5A

3.Power Consumed: ≤3W

4. Operating environment: -10 °C~50 °C Rh ≤ 95%. Input Signal: One way for temperature sensor,

6.Output Control: One way for temperature control 7. Control Range: Heating control range: 0~120°C Cooling control range: $-45 \sim 50^{\circ}$ C.

8. Resolving Power: 1°C Precision: ±1°C.

9. Dimensions of the whole machine: 76 (W) x 34 (H) x 62 (D)(mm).

10. Dimensions of the hole: 71 (W) x 29 (H) (mm).

Operating principle Control temperature setup

The first step: Slightly press Set to indicate the temperature control

The second step: Press or v to modify the temperature control. After the setup is set, it will return to the original status and indicate the current temperature, and operate according to the newly set up data.

Introduction to the control procedure

Enter the set up procedure by pressing the Set key for 6 seconds, when entering the set procedure, it will indicate HI Pressing Set key can select various menus, when the menu is chosen, pressing A or w key can reset the data from HC-HU-SC-SE-HE-LE



Entering the menu by keeping pressing Set , and then press
or
to select H C stands for Heating mode [Stands for Cooling mode



Entering menu by keeping pressing on Set , and thenpress Set once to indicate , press again a or arrow key to reset thedata of return difference temperature.

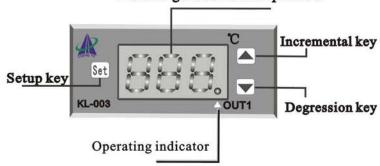


Entering the menu by keeping pressing on the Set key, and then press the Set key twice to indicate 5 [, press A or V arrow key to calibrate the temperature indicated.



Entering the menu by keeping pressing on the Set, and then press the Set key 3 times to indicate 5; and then press or arrow key to reset the data for starting the delayed time.

Indicating the current temperature





Entering the menu by keeping pressing on the Set, and then press the Set key 3 times to indicate HE and then press or arrow key to reset the data for starting the delayed time.



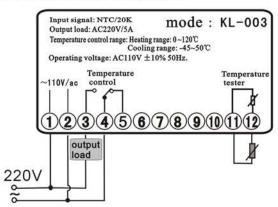
Entering the menu by keeping pressing on the Set, and press the Set 5 times to indicatel. E; and the press arrow key to reset the data of lower limit and super low temperature.

Malfunction code



Sensor self check: When the sensor is open circuit or short circuit, E | code indicated.

Temperature controller wiring diagram



Procedure data diagram

Symbol	Function	Setup range	Original setup	Unit
HE	Heating/cooling	H/C	C	
HU	Temperature return difference	1~30	2	$^{\circ}\mathbb{C}$
SE	Temperature calibration	-10~10	0	$^{\circ}\mathbb{C}$
St	Delay time	0~5	1	Minute
HŁ	upper limit	Setup value The highest measure range	100	$^{\circ}\!\mathbb{C}$
LŁ	lower limit	Setup value The lowest measure range	-45	$^{\circ}$

Parameter Setting Operation:

Setting of temperature control: under condition of cu rrent temperature display, press the key set, then press or key, new temperature parameter may be reset. Upon setting, it will be automatically memorized and reset, current temperature will be displayed. (while the temperature reaches the setting value, machine will stop operation).

key again to change the control mode of cooling or heating. (press key to select heating mode is as well as press key to select cooling mode is as well as press key to select cooling mode is as well as press key to select cooling mode is as well as press key to select cooling mode is as well as press key to select cooling mode is a well as well

History temperature return difference: press the set key for seconds, while the digital-display History, press the set key one time, while History code being display, then press or well to set new temperature return difference parameter, Upon setting, the system will operate according to your setting scope, (it means the temperature reach the setting value, machine will stop operation, at the setting value plus return difference value, it will start operation. at the Heating mode, while the temperature reach the setting value minus return difference value, it will start operation.)

Stemperature correction: press the set key for seconds, while the digital-displaying set, press the Hikey twice and the St code being displayed, then press or key to correct measured temperature.

Code being display, press the set key for seconds, while HC code being display, press the set key three times, while the digital-display seconde, then press or key to delay protection parameter setting, this function can prevent the machine from sudden or overfrequency Upon setting, the system will operate according to your setting scope, (it means the temperature reach the setting value, machine will stop operation, at the C cooling mode, while the temperature reach the setting value plus return difference value, it will start operation. at the H cooling mode, while the temperature reach the setting value minus return difference value, it will start operation.)

being display, press the set keyfor seconds while He code being display, then press or key to set upper temperature limit and parameter.

Notes

1.While cooling, upper limit and parameter are setting, which shall more than total of setting temperature plus return difference value. (e.g. while the setting temperature is 20% centigrade, return difference is 5% centigrade, upper limit and ultratemperature alarm parameter shall be more than 26% centigrade.)

2. While heating, upper limit and parameter being setting, which shall more than setting temperature value. (e.g. while the setting temperature is 20℃ centigrade, upper limit and ultratemperature alarm parameter shall be more than 21℃ centigrade.)

3. While use the upper and lower limit function menu, upon changing upper and lower limit parameter. Setting parameter of control temperature shall merely change within upper and lower limit scope.

4.In the process of installation, sense line shall be required to prolong, part of the prolong line shall be need of shielded wire.

Installation Notes:

- 1. Please read the instruction of this Product in detail, connect the 110V/AC power, sensor and control line to the respondent port acc ording to indicated wiring map strictly, and check without inerr ability tighten all connected screws terminal up, then power on for operation. Otherwise, crossed line will affect the operation and control, seriously, it might burn out the temperature control or chip.
- 2. While using this product, it shall be away from damp environment corrosive gas and strong magnetic field, otherwise, it will affect the normal use of this product.
- 3. Before putting into Market, this products have been strictly inspected, the quality will have one year warranty, the warranty only limit to the sales-product, in the event that the damaged is due to separate by yourself or improper use, which is out of warranty.

Our manufacturer produce a series of speciality electronic temperature and dampness control, please contact with sales agency with any problem, we would warmly offer you superior quality after-sale service.