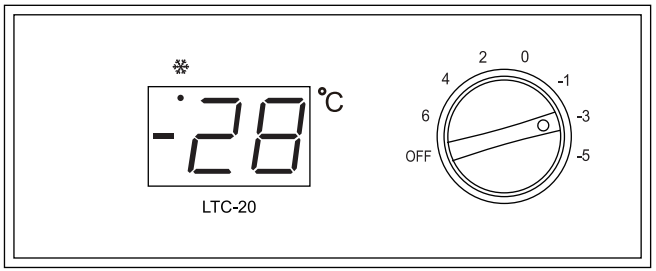
LTC–2X Instructions

General Description

A new series of products especially designed for Refrigerant kitchen refrigerator、Refrigerant cabinet have features as temperature display, control, compressor start-up delay protection, code display when sensor error and exceeding tepmperature limit, etc. Adjust temperature by rotating switch, easy to operate and stable and reliable performance.

Panel Diagram(figure is LTC–20)



LTC-20

Specification

1. Product size: 137x56x69(mm)
2. Installing hole size: 112x39(mm)

Technical parameters

1. Temperature measuring range: -40℃~+90℃
2. Measuring accuracy: ±1℃
3. Resolution: 1℃
4. Sensor: NTC, 2 meters
5. Refrigerant relay output: 30A/240VAC(max. load is 1.5HP)
6. Compressor start-up delay time: 2 minutes
7. Temperature controlling level: 0~7 level(OFF is to close controller)
8. Power consumption: ＜3W
9. Safe level: IP65
10. Operation ambient temperature: -5℃~+50℃

Operation Instructions

User can set temperature by rotating switch, one end of the switch with a dot pointing to temperature value which is to stop the compressor. The stopping temperature plus the return difference is the temperature to start the compresor.

e.g.: Rotate the switch of LTC-20 to level "-3", when the measuring temperature is higher than 1℃, the compressor starts; when the measuring temperature is lower than -3℃, the compressr stops; when the switch is turned to "OFF", the controller is under turning-off status, and compressor stops.

Indicator Light Description

❄ Indicator light on: compressor under refirgerating status;
❄ Indicator light flashes: compressor under start-up delay ststus(the delay time is 2 minutes);
❄ Indicator light off: compressor under stopping status.

Error Code

1. Sensor error displays "EE"
2. Temperature adjusting knob error displays "—"
3. Temperature measured exceeding the upper limit displays "HH"
4. Temperature measured exceeding the lower limit displays "LL"

Wiring Diagram Description

Please strictly distinguish the wires of power, sensor and load from one another and connect the corresponding plugs according to the one marked on the machine.

Safety Regulations

◆Dangers: Prohibit connecting the wire terminals without electricity cut-off
◆Warning: Prohibit using the machine under the environment of over damp, high temperature, strong electromagnetism interference or strong corrosion.
Strictly distinguish the sensor down-lead, power wire and relay output interface from one another, and prohibit wrong connections or overloading the relay.
◆Notes: The power supply should conform to the voltage value indicated in the instruction. To avoid the interference, the sensor down-lead and power wire should be kept a distance. The sensor should be installed away from the vent hole to improve the measuring accuracy.

Product Naming Regulations

	Digit 1	Digit 2		Annex character 1	Annex character 2
LTC	Fixed value 2	0	10℃ ~ –5℃	Power supply Vacancy：220VAC A:110VAC B:12VAC/DC	Return difference Vacancy: return difference is 4℃ 1: return difference is 3℃
		1	0℃ ~ –10℃		
		2	4℃ ~ –15℃		
		3	–2℃ ~ –18℃		
		4	–8℃ ~ –25℃		
		5	10℃ ~ 0℃		
		6	–6℃ ~ –16℃		
		7	10℃ ~ –6℃		

e.g.: LTC-20: power supply 220VAC, return difference is 4℃, controlling range: 10℃~-5℃.
LTC-23AI: power supply 110VAC, return difference is 3℃, controlling range: -2℃~-18℃.