



Dimension :77(Length) 35(Width) 60(Depth)mm
 Mounting hole dimension:7 1 (Length) 29(Width)mm

Features of Function

- Mini-sized and integrated intelligent control .
- Temperature Display/ Temperature Control/ Value Storing/ Self Testing

Specifications

1. Power supply:230VAC 50/60Hz; (with a built-in transformer)
2. Temperature sensor:NTC, 1 pc , 2 meters
3. Range of temperature displayed: $-45^{\circ}\text{C} \sim 99^{\circ}\text{C}$; Accuracy: 1.0°C
4. Range of set temperature: $-45^{\circ}\text{C} \sim 80^{\circ}\text{C}$; Factory default: 16°C
5. Temperature of the operating environment: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
 Relative Humidity:20%~90% (Non-condensing)
6. Relay output contact capacity:
 Compressor relay: N .O. 10A/250VAC (when overload it needs to connect an AC Contactor)

Front Panel Operation

- 1 . Set temperature (compressor stop temperature) adjustment
 - Press button, the set temperature is displayed.
 - Press or button to modify and store the displayed value . Press button to exit the adjustment and display the cold room temperature.
 - If no more button is pressed within 6 seconds, the cold room temperature will be displayed.
 (Set temperature adjustment range: parameter E1~E2)
2. Refrigeration LED: During refrigeration, the refrigeration LED is on; When the cold room temp. is constant, the refrigeration LED is off; During the delay time, the refrigeration LED flashes
3. Parameter setup
 - Press button and hold for 6 seconds to enter the parameter setup mode while E1 flashes.
 - Press again button to select sequentially from the parameters : E2,E3,E4,E5,E1
 - Press or button, the value of parameter will be displayed and can be modified and stored.
 - If no more button is pressed within 6 seconds, the cold room temperature will be displayed.

Parameter	Function	Set range	Default
E1	Lower setpoint limit	$-4.5^{\circ}\text{C} \sim \text{Set temp.}$	-3.0°C
E 2	Higher setpoint limit	$\text{Set temp.} \sim 8.0^{\circ}\text{C}$	30°C
E3	Temp . hysteresis	$0.1 \sim 10.0^{\circ}\text{C}$	3.0°C
E4	Comp. start delay time	$0 \sim 5\text{Min}$	2Min
E 5	Offset on room temp.	$-5.0 \sim 5.0^{\circ}\text{C}$	0.0°C

4. The factory default resumption:press button and button simultaneously for 3 seconds, "888 " will be displayed,at this moment all parameters will be resumed as same as factory defaults.After 6 seconds, it returns to normal operation mode.

Function detail

1. Temperature control

- After turning on for the delay time ,the compressor starts operating when cold room temperature \geq (set temperature+ hysteresis), and will be off when cold room temperature \leq set temperature.
- To protect the compressor,it can not re-start unless the time when the compressor stops every time is longer than the delay time(Parameter E4).

2. Abnormal work mode

- When sensor is short -circuited or overheated (more than 99°C) "HH" is displayed; when sensor is open-circuited or temperature is too low (less than -45°C) " LL" is displayed, alarm LED turns.

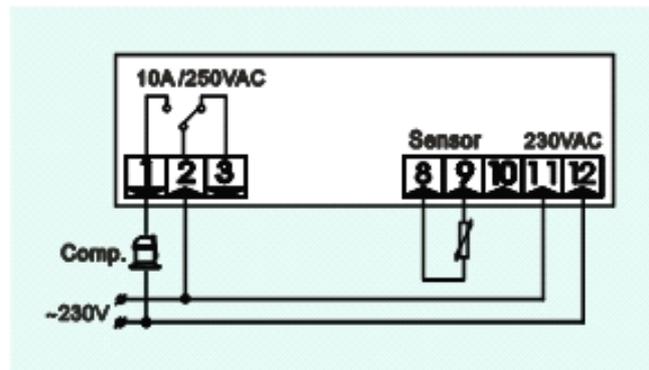
Notes for Installation

1. Sensor leads must be kept separately from main voltage wires in order to avoid high frequency noise induced. Separate the power supply of the loads from the power supply of the controller.
2. In case of long-distance sensor installation from the controller, the sensor cable may be prolonged up to 100 m max. without any re-calibration.
3. The temperature controller can not be installed in the area with water drops.

Accessories for the temperature controller

1. One temperature sensor
2. One installation stand
3. One cover panel and 1 ϕ 3 10mm screw

Circuit Diagram



Fullchance (shenzhen) silicone-heater co.,ltd

Add:Floor 3. H building,3rd industrial zone,xinwei.dalang steet,longhua town,,shenzhen china 518109

Office tel:+86-755-81298065,27749405 office fax:+86-755-28145843 ,Mobile phone:+86-18927423879

Website:www.silicone-heater.com

Email:sales@fullchance.com,export@fullchance.com

Msn ID:fullchance-anna@hotmail.com

Sky ID:fullchance-anna