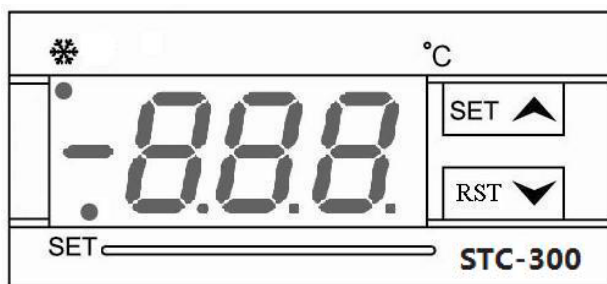


Temperature controller Instruction STC-300

Type and technical parameters :

- ◆Panel size : 75×34.5×85 (mm)
- ◆Installing size : 71×29 (mm)
- ◆Operation temperature : 0°C ~ 60°C
- ◆relative humidity : no more than 80%
- ◆Main technical parameters :
 - Power supply : 220VAC±10% 50/60Hz
 - Power consumption : < 3W
 - Temperature controller range : -50~120°C
 - Resolution : 0.1°C
 - Accuracy : ±1°C
 - Relay contacts capacity : 10A/250VAC

◆The temperature controller panel :



◆Relay and the compressor working state in the light

Indicator light	Displays	Condition
❄	Blink	Compressor Delaying
	Normal lighting	Compressor Working
SET	Normal Lighting	Set up the parameter

◆Revise parameter value :

- ☆ Under working condition , press " ▲ "button , for 2 seconds will display the maximum setting temperature, press" ▼"button for 2 seconds , display the minimum temperature, get back ; press"Set"button , for 2s will display the compressor delay time ; press"Rst"button , for 2 seconds, will display over temperature alarm deviation
- ◆Enter into menu.

- ☆Under normal working condition ,press "Set" button for 3s , enter in menu controlling board, while , nixie tube will displayF1 for more setting.
- ☆Under controlling condition, press " ▲ " or" ▼"button can set item and parameter from F1-F5. Press"Set" button will enter in the parameter setting state, while the nixie tube will display the current parameter.
- ☆When changing the parameter, press " ▲"or" ▼"button can change the parameter, long-time pressing will change the parameter quickly. Once the parameter finished, press " Set " button will get back to the former menu.

◆Parameters information :

code	Meaning	Range	Factory settings
F1	Set upper limit temperature	Maximum120°C	-10.0°C
F2	Set lower limit temperature	Minimum-50°C ~	-20.0°C
F3	Temperature Calibration	-15.0°C ~ 15.0°C	0.0°C
F4	Compressor delay	0 ~ 12mins	1min
F5	Excessive temperature alarming	0°C ~ 50.0°C	0.0°C

◆Compressor

- ☆When the temperature of the sensor is higher than the upper limit, or equal to the set temperature and compressor delay more than set delay time, relay and the compressor work.
- ☆When the temperature of the sensor is below the limit value when the relay is equal to the set temperature disconnect compressor stop working.

◆Alarming

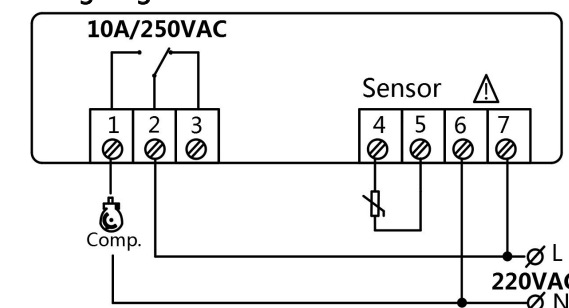
- ☆ Over temperature alarm: when the temperature is higher than the temperature of the upper limit deviation or + lower than the setting temperature limit and lasting time is beyond over temperature alarm delay time, the digital tube will flash and the buzzer will ring. Press any button to stop the alarming but

- the digital tube will still blink, set Over temperature alarm deviation as "0" to cancel whole alarming
- ☆Outrange alarm: when the sensor temperature higher than 120 °C or blow - 50 °C, the digital tube display "HHH, buzzer alarm, press any key to eliminate alarm sound
- ☆Sensor fault alarm: PREVP (sensor open or short circuit), the digital tube display "E1",buzzer squealing, press any key to eliminate alarm sound.

◆fault code :

Code	Meaning
E1	PREVP (open circuit or short circuit of sensor) temperature controller scale operation
HHH	Sensor temperature above120°C or blow -50°C

◆Wiring diagram :



◆Checking and installation requirements before using :

- ☆The power supply voltage should be consistent with the voltage marked on the machine
- ☆Ban in excessive damp environment use, in the high temperature, strong electromagnetic interference, strong corrosive environments
- ☆Sensor wire, power cords and output relay lead, should strictly distinguish, not wrong answer; Overload relay.
- ☆To avoid possible interference, it is recommended that the sensor lead keep proper distance with the power cord.
- ☆Sensors installed, should far away from the vent to ensure the accuracy of the measured temperature