

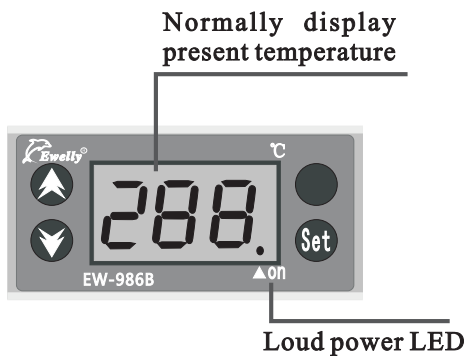
Microcomputer Thermostat Serial 《EW-986B Directions》

Firstly thanks for using our instrument. This product is a new product of fully automatic intelligent control system especially made for high-temperature and heating industry.

Technical Specifications

- 1、 Operating Voltage: AC220V $\pm 10\%$ 50HZ/60HZ
- 2、 Load Current: 10A/220V/AC
- 3、 Power Consumption: $\leq 3W$
- 4、 Working Environment: $-10^{\circ}C \sim 50^{\circ}C$ RH $\leq 90\%$
- 5、 Input Signal: K-Thermocouple Sensor (equipped by user)
- 6、 Control Range: $0^{\circ}C \sim 400^{\circ}C$
- 7、 Resolving: $1^{\circ}C$ accuracy: $\pm 2^{\circ}C$
- 8、 Overall Dimension: 77(length) \times 34(wide) \times 62(high)mm
- 9、 Starter: 71(length) \times 29(wide)mm

Brief on Operation



Demand of install

1. The voltage must accord with controller's demand. The voltage's deviation is no more than $\pm 5\%$.
2. The loop of sensor is possible to keep away from the loop of power.
3. The sequence of line's must have been connected Properly.

Brief on Controlling Procedure

1. Temperature setting: Press **(set)** gently to display controlling temperature. press **(▲)** or **(▼)** to change controlling temperature.
2. Parameter Setting: Press **(set)** for 6 seconds to start parameter setting (a "d" will be displayed). Press **(▲)** or **(▼)** to adjust the parameters of **LS — HS — Pt — CA — d**



Press **(set)** key, then press **(▼)** or **(▲)** simultaneously. Choose lowest temperature limits: $0^{\circ}C \sim$ control temperature- $1^{\circ}C$



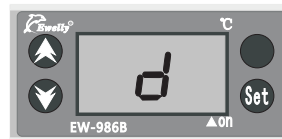
Press **(set)** key, then press **(▼)** or **(▲)** simultaneously. Choose high-est temperature limits: control temperature+ $1^{\circ}C \sim 400^{\circ}C$



Press **(set)** key, then simultaneously press **(▼)** or **(▲)** to set delayed start time from 0 to 3 minutes.



Press **(set)** key, then press **(▼)** or **(▲)** simultaneously. Choose temperature correction: $-15^{\circ}C \sim 15^{\circ}C$



Hold **(set)**, then press **(▼)** or **(▲)** simultaneously. Choose return difference: $1^{\circ}C \sim 15^{\circ}C$

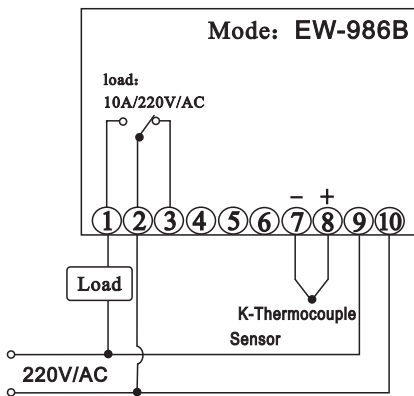


ON Error: when the sensor is short circuit. Code "E1" will be displayed.



When current temperature is higher than the upper limit, the screen will display "E2" and the load will be off.

Wiring diagram



Feature descriptions

Heating system: When the current temperature \leq the setting temperature - the temperature hysteresis and delay the setting of the "delay time", the load relay Off.

Heating system to stop: when the current temperature \geq setting temperature, the load relay is disconnected.

About Failure

Failure	Causes	Precautions
No display when power is on.	Check to see if the power is short circuit. The thermostat fails.	Check power supply and change fuse. Check if there is 220V power input or change thermostat with our distributor.
Machine does not work but display exits	The set temperature is higher than the present temperature. The heat protector is open circuit because the pressure is over loads.	Reset the necessary controlling temperature. Check the reasons for overload and overheating. After the trouble is solved, restart to work.
Displayed temperature is unstable or there exists misplay..	The sensor wiring is interfered, poorly contacted or is tied with other cables. The current is light because of damage in the wiring.	Separate sensor wiring with power cables or change shielded lines or check if the contact is tight or not.
Difference with temperature within storage and the displayed temperature is too big.	The locations for the sensors are not correct or sensor wiring is too long and its resistance is too big. The wiring contact is poor and the sensor's damage.	All sensors should be corrected at their locations. Enlarge the cross section of the expanded wires. Make sure the wiring sealing, is good. Change sensor.
Machine does not stop when the temperature reaches.	The sensor is not correctly installed and cannot measure the correct temperature. Compressor contactor fails.	Check if the sensor has accurately measured the temperature or not. Change compressor contactor.
"EI" is displayed	The sensor wiring is short circuit or open circuit.	Check to see if the sensor wiring has good contact with coupling end or not.

Warnings

1. Please read this product instruction carefully and connect input/output plugs of power & sensor to the corresponding sockets strictly by following connection diagram, otherwise the usage & operations will be affected. Check again to make sure there is no mistake. Tighten all the screw of connection plugs again, and then connect it to the power for running.
2. Keep away this product from moist or corrosive air and high magnetic field. Otherwise the normal operation of this product will be affected.
3. All our products have passed strict quality inspections before leaving factory. We provide one-year quality guarantee (which is limited to product itself) period for this product.

Parameters for Procedure

Function	Setting Range	Ex-factory Value	Unit
Setting range	0~400	50	℃
Alarm on low limit Temperature	0℃~control temperature-1℃	0	℃
Alarm on high limit Temperature	control temperature+1℃~400℃	400	℃
Delayed Time	0~3	1	Min
Temperature Correction	-15~15	00	℃
Temperature Return Difference	1~15	5	℃

Note: When a high temperature alarm settings should be greater than the set temperature and hysteresis sum

When you set the temperature alarm should be less than the set temperature minus the hysteresis sum.

If you have any doubt or problem concerning the electronic temperature or humidity controller made by us, please contact our distributors and we will provide you high-quality after-sale services. Thanks!

Guangzhou Eliweli Autocontrol Tech.
Co., Ltd.