

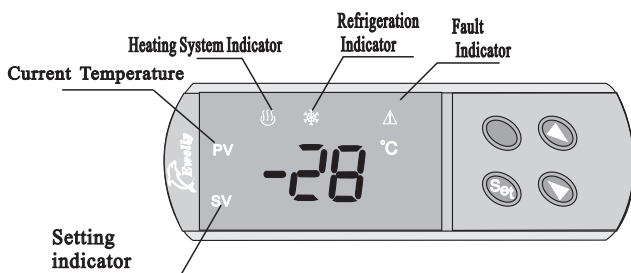
## Microcomputer Thermostat Serial 《EW-183AZ-1Directions》

ELIWELI is an enterprise which is specialized in producing electronic temperature controller. We always insist that quality of product and best service is our goal. Our sensor is especially precisely made and sealed; it is moisture-proof, therefore its performances are more stable and reliable.

### Technical Specifications

- 1、Operating Voltage: AC220V ±10% 50HZ/60HZ
- 2、Output Load: 10A/220V/AC
- 3、Power Consumption: ≤3W
- 4、Working Environment: -10℃ ~ 50℃ RH ≤ 90% %
- 5、Control Range: -50.0℃ ~ 90℃
- 6、Resolving Power: 0.1℃ Accuracy: ±0.5℃
- 7、Input Signal: one line NTC-sensor input 10k×1.5m
- 8、Overall Dimension: 78(W)×35(H)×62(L)mm
- 9、Starter Size: 71(wide)×29(height)mm

### Pane Sketch



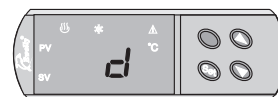
### Demand of install

1. The voltage must accord with controller's demand. The voltage's deviation is no more than ±10%.
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.

### Operating Procedure

1. Temperature setting: Press **(set)** gently to display controlling temperature. Press **(▲)** or **(▼)** to change controlling temperature.

2. Data setting: Hold **(set)** for 6 seconds to enter set procedure. When it is on the procedure, it will be displayed **d**. Then Press **(set)** to circle setting **d** — **Pt** — **CR**



Press **(set)** 1st, then press **(▲)** or **(▼)**. Choose return difference: 0.1℃ ~ 15.0℃



Press **(set)** 2nd, press **(▲)** or **(▼)** to set delayed starting



Press **(set)** 3rd, press **(▲)** or **(▼)**. Choose temperature correction: -10.0℃ ~ 10.0℃



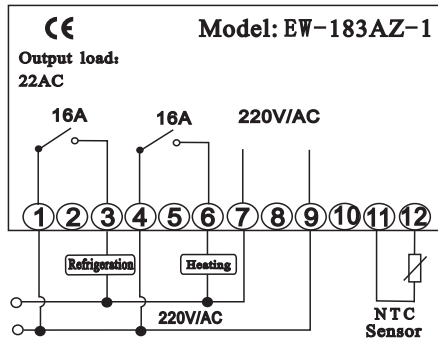
ON Error: when the sensor is open circuit. Code "E1" will be displayed and the fault indicator flashing.

Note: when the sensor is short circuit, it will display 90℃

### Parameters for Procedure

Code	Function	Setting range	Ex-factory Value	Unit
Pt	Delayed Time	0~10	1	Min
CR	Temperature Correction	-15~15	00	℃
d	Temperature Return Difference	1~15	2	℃

## Wiring Diagram



## Feature Descriptions

● **Cooling:** When the current temperature  $\geq$  setting temperature + temperature hysteresis(D) and delay the setting of the "delay time", the load relay On.  
Cooling stop: When the real temperature  $\leq$  the set temperature, the load relay is Off.

● **Heating system:** When the current temperature  $\leq$  the setting temperature - the temperature hysteresis (D) and delay the setting of the "delay time", the load relay On.  
Heating system to stop: when the current temperature  $\geq$  setting temperature, the load relay Off.

**Note:** This machine is for heating and cooling brake conversion controller, it can control temperature between setting temperature  $\pm$  hysteresis temperature (D) stably.

## Trouble Shooting

Failure	Causes	Precautions
No display when power is on.	Check to see if the power is shorted circuit or the thermostat is failed.	Check power supply and change fuse. Check if there is 220V power input or change thermostat with our distributor.
Display but machine does not work	The setting temperature in the stop interval; External circuit protection; checking system Warming or cooling mode	Re-set the desired temperature control value; Check the external circuit fault reason Troubleshooting reset work.
Displayed temperature is unstable or there exists misplay	The sensor wiring is interfered, poorly contacted or is tied with other cables. The circuit is damaged.	Separate sensor wiring with power cables or change shielded lines or check if the contact is tight or not.
Real temperature is much difference to thermostat display.	The sensor is not correctly installed and cannot measure the correct temperature. The contactor of compressor failed.	The sensor must install the correct position; To increase the extension line of a cross-sectional; Ensure that the wiring tightness, waterproof; replace the 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.
Relay work with overload	Return difference value is too small or the setting for pressure protection is not correct.	Reset and enlarge return difference value. Adjust; setting for pressure protection.
"EI" is displayed	The sensor is opened or shorted 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.

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 Auto-control Tech. Co., Ltd.  
<http://www.eliweli.com>