

Microcomputer Thermostat Serial 《EW-182 Directions》

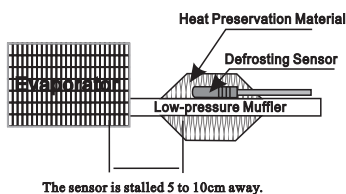
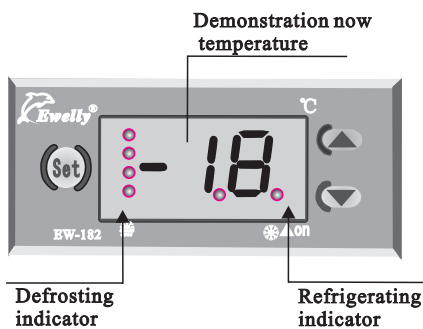
ELIWELI is an enterprise which is specialized in producing electronic controller. We always insist that quality of product and best service is our goal.

We have accumulated much experience in the controller. The better management in ELIWELI will last constantly. We wish to grow up with customers.

Technical Specifications

1. Operating voltage: AC220V $\pm 10\%$ 50HZ/60HZ
2. Load current: 5A/220V/AC
3. Power Consumption: $\leq 3W$
4. Working environment: $-10^{\circ}C \sim 50^{\circ}C$ RH $\leq 90\%$
5. Controlled Output: Compressor and electronic defrosting have their own output respectively.
6. Control Range: $-40^{\circ}C \sim 40^{\circ}C$
7. Resolving Power: $1^{\circ}C$ Accuracy: $\pm 1^{\circ}C$
8. Cold storage house and evaporator separately use one sensor to measure the temperature. The standard length is $10k \times 2m \times 2$ (The maximum extension can be 50m. The extended cable should be shielded.)
9. Overall Dimension: 76(length) $\times$ 35(wide) $\times$ 76(high)mm
10. Starter Size: 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 $\pm 10\%$.
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.

Demand of install

1. Setting of Control Temperature: Slightly press **set** to display control temperature and light 2 and light 3 will flash. Press **▲** or **▼** to change control temperature.

2. Parameter Setting: Hold **set** for six seconds to enter setting process and the indicator light will flash. Press **set** each time for the change of function. Press **▼** or **▲** to change the parameters for each function. The modified parameter will be automatically memorized.

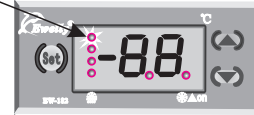
Demand of install

Setting temperature



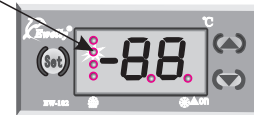
Press **set** gently, NO.2 and No.3 lights will flash for setting temperature

Return temperature



Press **set** until NO.1 light flashes. Then press **▲** or **▼** for resetting return temperature value.

Operation interval



Press **set** until NO.1 light flashes. Then press **set** gently for one times and NO.2 light flashes. Press **▲** or **▼** for resetting operation value.

Turn frost time



Press **set** until NO.1 light flashes. Then press **set** gently for two times and NO.3 light flashes. Press **▲** or **▼** for resetting operation value.

Withdrawal time for defrosting



Press **set** until NO.1 light flashes. Then press **set** gently for three times and NO.4 light flashes. Press **▲** or **▼** resetting operation value.

Delayed time



Press **set** until NO.1 light flashes. Then press **set** gently for four times and NO.1 and NO.4 lights flash. Press **▲** or **▼** for operation value.

Temperature correction



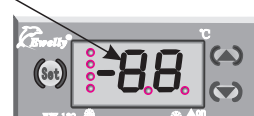
Press **▲** and **▼** simultaneously until four lights flash. Press **▲** or **▼** to make adjustment.

Compulsory defrosting



Press **▲** until  flashes for compulsory defrosting.

Default setting



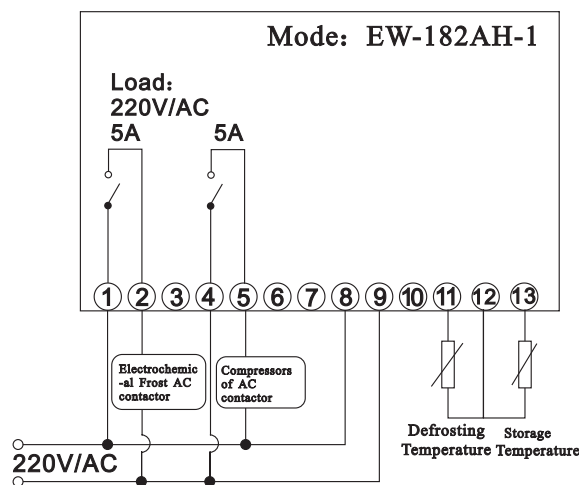
Press **▼** until **88** flashes and the factory default setting will be resumed.

Back temperature



Simultaneously press **set** or **▲** and the back temperature can be viewed.

Wiring diagram



Feature Descriptions

Cooling: When the current temperature $\geq$ setting temperature + temperature hysteresis 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.

Into defrost:

1. when the instrument after defrost (or boot) to run a set running period of time and then into defrost (load relay Off, defrost relay On, defrost indicator On).

2. press UP key into the defrost (load relay Off, defrost relay On, defrost indicating On).

Exit the defrost:

1. entering the defrost time and delay after the set defrosting time , defrost relay off, defrost indicator off, exit the defrost status, return to the normal control status.

2. the exit temperature to defrost, defrost relay off, defrost LED is off, return to the normal control.

Attention please: If the sensor temperature is higher than the set defrost exit temperature can not enter the state.

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. The heat protector within compressor is open circuit.	Reset the necessary controlling temperature. Check the reasons for overload and overheating. After the trouble is solved, restart to work.
Defrosting is not complete	The defrosting time is too short. The temperature for defrosting withdrawal is too low.	Reset defrosting time. Increase temperature for defrosting withdrawal.
Defrosting does not work	Defrosting sensor is not correctly installed. Defroster has burned out. The wiring or device for controlling defroster fails the temperature for defrosting withdrawal is lower than that in cold storage house.	Check installation by the diagram. Change defroster. Check wiring or device. Reset temperature for defrosting withdrawal.
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.
Defrosting temperature is too high	Defrosting sensor is not correctly installed and the temperature for defrosting withdrawal cannot be measured. The defrosting time is too long or the withdrawal temperature is too high. Defrosting contactor fails.	Install defrosting sensor to accurately measure temperature on evaporator. Reasonably reset parameters. Change defrosting contactor.
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 is damaged.	All sensors should be corrected at their locations. Enlarge the cross section of the expanded wires. Make sure the wiring sealing, water-proof or moistproof of performance 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.
Cooler works with overfrequency	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 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 aga in, 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 operaton of this product will be affected.

Parameters for Procedure

Indicator	Function	Setting Range	Ex-factory Value	Unit
Light 2、3	Setting range	-40~40	-10	℃
Light 1	Temperature return difference	1~15	3	℃
Light 2	Operation interval	1~12	6	Hours
Light 3	Defrosting time	1~45	10	Minutes
Light 4	Defrosting withdrawal temperature	5~35	5	℃
Light 1、4	Set delayed time	1~5	3	Minutes
All four lights simultaneously on	Temperature correction	-15~15	00	℃

3. All our products have passed strict quality inspections before leaving factory. We provide one-year qualit 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 Autocontrol Tech. Co., Ltd.