Code:183.12.02.16

Ewelly® / Eliweli®

Microcomputer Thermostat Serial
《EW-183 Directions》

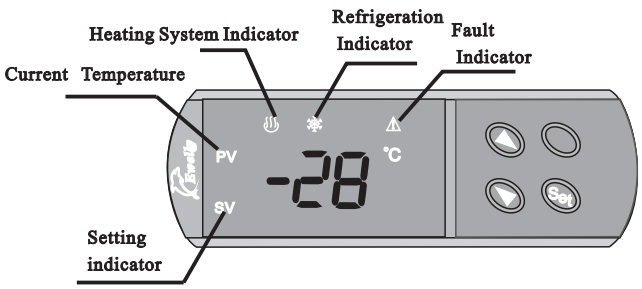
ELIWELI is an enterprise which is specialized in producing eletronic temperature controller. We always insist that quality of product and best service is our goal.

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 :Compressor relay 10A/220V/AC
3、Power Consumption：≤3W
4、Working Environment:－10℃～50℃ RH≤90%
5、Input Signal ： one line NTC-sensor input.20k×1. 5m
6、Control Range：－45℃～80℃
7、Resolving Power：1℃ Accuracy：±1℃
8、Overall Dimension：80(wide)×32(height)×70(length)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.

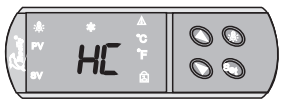
Operating Procedure

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

Operating Procedure

2.Data setting：Hol set for 6 seconds to enter set procedure. When it is on the procedure, it will be displayed HC. Then Press set to circle setting

HC — LS — HS — Pt — CA — d



Hold set 6 seconds, press ▲ or ▼simultaneously. Choose HC, H means Heat Mode, C means Refrigenation Mode.



Press set 1st, press ▲or ▼ simultaneously. Choose the lowest temperature limits:
－45℃ to Temperature control to -1℃



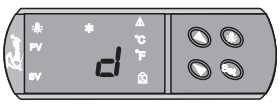
Press set 2nd, press ▲or ▼ simultaneously. Choose the highest temperature limits:
Temperature control+1℃ to 80℃



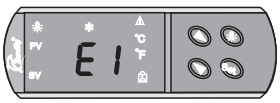
Press set 3rd, simultaneously press ▲ or ▼ to set delayed starting time: 0 to 5 minutes.



Press set 4th, press ▲ or ▼ simultaneously. Choose temperature correction:
－15℃~15℃

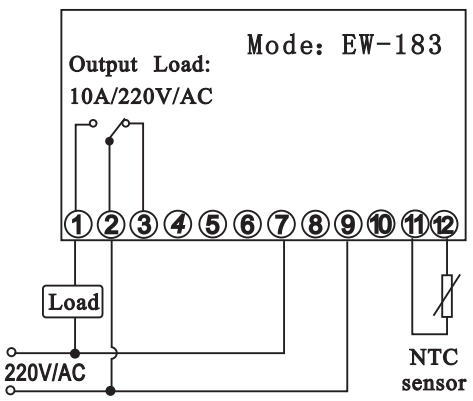


Press set 5th, then press ▲ or ▼simultaneously. Choose return difference:1℃～15℃



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

Electrical diagram



Feature Descriptions

Cooling: When the current temperature ≥ setting temperature + temperature hysteresis(D) and delay the setting of the "delay time", the load relay On.

Cooling stop: When the real temperature ≤ the set temperature, the load relay is Off.

Heating system: When the current temperature ≤the setting temperature - the temperature hysteresis (D) and delay the setting of the "delay time", the load relay Off.

Heating system to stop: when the current temperature ≥ setting temperature, the load relay Off.

Tips: cooling and heating conversion set in the parameter H / C menu selection, H is the heating system, C is cooling.

Parameters for Procedure

Code	Function	Setting Range	Ex-factory Value	Unit
HC	Heat / Cool	H/C	C	—
LS	The lowest temperature limited	−45 to control temperature -1	−45	℃
HS	The highest temperature limited	control temperature +1 to 80	80	℃
Pt	Delayed Time	0~5	1	Min
CA	Temperature Correction	−15~15	00	℃
d	Temperature Return Difference	1~15	2	℃

Attention: The highest temperature limited (HS) and the lowest temperature limited (LS) have been locked. Please don't change.

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 is higher than the current 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.
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 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 Moisture-proof of performance is good. Change sensor.
Machine does not stop as soon as the temperature reaches	The sensor is not correctly installed and cannot measure the correct temperature. The contactor of compressor failed.	Check if the sensor has accurately measured the temperature or not. Change compressor contactor.
Cooler works with over-frequency	Return difference value is too small or the setting for pressure protection is incorrect.	Reset and enlarge the temperature value of return difference. Adjust setting for pressure protection.
"EI" is displayed	The sensor circuit is opened or shorted.	Check to see if the sensor wiring has good contact with coupling end or not.

Attentions

1. Please read the product instruction carefully and connect the input/output lines of power supply and sensors to corresponding terminals according to the wiring diagram. Tighten all connecting terminals and screws and make sure all wiring is correct before power-on. Otherwise, wrong wiring would affect performance and control of the system, or even lead to damage or burnout of temperature control chip.

2. Keep this product away from moist, corrosive air and high magnetic field. Otherwise normal operation of this product would be affected.

3. This product has been inspected rigidly before dispatch. We provide one-year warranty against any quality problem (of the product itself). This warranty will be void in case of any damage resulted from unauthorized dismantling of the product.

We are a specialized manufacturer of electronic temperature/humidity controllers. In case of any doubt or problem, please contact our distributors. We will provide you with satisfying after sales services. Thanks!

Guangzhou Eliweli Automatic control Technology. Co., Ltd.
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