EAG8503

Operating instructions:

Set temperature:

Press UP or DOWN to set temperature.

Refrigeration:

Start refrigeration: When the temperature ≥ set temperature + temperature difference (default 4 degrees), start refrigeration;

Stop refrigeration: When the temperature ≤ the set temperature, the refrigeration is turned off.

Code, Reason, and Action

Code	Reason	Status	Action
E1	Temperature sensor failure	Turn off 30 min & then Turn on 15 min	Check sensor contact or replacement if necessary
НН	Exceeds measurement range	Turn off 30 min & then Turn on 15 min	Check whether the actual temperature is beyond
LL	beyond the lowest range	Turn off 30 min & then Turn on 15 min	the range or replace the sensor

EAG8503

Refrigeration and Defrosting (output) Instructions for operation in the factory

I. Characteristics

The new EAG8503 is a general micro-freezing and refrigeration controller with high precision, high performance, and wide application range. It provides output control of refrigeration and defrosting, and is suitable for various micro-frozen and refrigerated display cabinets, SBDG, cake cabinets, and other control occasions.

•setstartandstoptemperature & Upperandlowerlimit	StrongAnti-jammingAbilitytoavoidthewrongAction	Embedded Installation
Protectionagainst Frequent Start of Compressor	●Importedtemperaturesensor	•Applicable Range of Industrial Environmental Temperature
Brownpanel, waterproofdesign	●ShockResistantPowerRelay	•High-quality terminals to ensure good contact
●FaultCodeAlarm	•Imported industrial chip	

II. Specification:

Range of measurement: -40 °C ~110 °C; Power:220VAC50/60Hz Installation:71mm (W)×29mm (H) Resolution: 0.5 at -19.5-20 °C: the rest is 1°C. Measurement Accuracy: ±1°C Front panel protection level: IPX5

Sensors: NTC, 1pc, (optional). Relay output capacity: refrigeration: 30A/250VAC, defrosting: Control range: -40 °C ~110 °C 10A/250V

III. HMI: 4 buttons: SET, ▲ and ▼;

Symbol	Function	Flash	On
*	Refrigeration LED	Output delay	Control Output Started
***	Frost LED		Stop for defrosting
SET	Setting LED		Setting parameters
Flashing	Temperature measurement	Over temperature alarm	

IV. Menu:

Menu narks	Menu function	Range	UNit	Default value
	Temperature setting (stop temperature)	F1∼F2	°C	3
F1	Prohibit setting lower temperature limit	-40∼Setting temperature	°C	0
F2	Prohibit setting the upper-temperature limit.	Setting temperature~110	°C	7
F3	Temperature difference setting	0-15	°C	4
F4	Compressor Start Delay	0-15	Min	1
F5	Defrosting	0^\sim 99, Set to 0 to cancel regular defrosting	Н	4
F6	Defrosting time	0∼99, Set to 0 to cancel regular defrosting	Min	10
F7	Temperature correction	-9∼+9	°C	0
F8	Over temperature alarm upper limit	F9∼110	°C	50
F9	Over temperature alarm lower limit	-40∼F8	°C	-40
F10	Defrost mode	0: normal; 1: display the beginning temperature of defrosting; 2: display the set temperature until the temperature returns to the boot range		0

V. Operating instructions

5.1 User Settings:

Press up or down key to adjust the setting temperature directly, and the setting value is limited between F1~F2 value.

5.2 Modify menu parameter values:

When the controller works normally, press SET key for 9 seconds, enter menu parameter setting, and then press \triangle or ∇ to adjust F1~F10. When F1 appears, press SET key to display the value of F1, and press \triangle or ∇ to modify the parameter value.

5.3 Restore the factory setting value:

Keep Press the "SET" key on and press the "\" key until the parameters are restored to the factory menu settings ("YS" appeared).

VI. Control output:

6.1 Refrigeration:

Start refrigeration: When the temperature≥ the set temperature + backlash, the refrigeration is started. Stop refrigeration: When the temperature ≤ the set temperature, the refrigeration is turned off.

Note 1: When the sensor fails, the compressor runs at the ratio of starting for 15 minutes then stopping for 30 minutes.

6.2 defrosting:

- ·Automated Frost: According to the F5 value of the set defrosting cycle and F6 value of defrosting time, defrosting starts automatically.
- ·Forced defrosting: Press the " " for 3 seconds, enter the forced defrosting, defrosting duration according to F6 value.

VII. The wiring diagram is detailed in the thermostat.