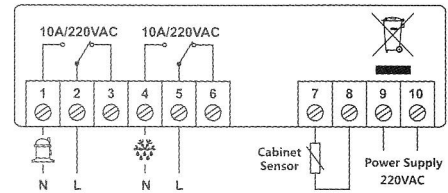


.Alarm will continue until temperature back to normal range.
 · Screen flashes and displays E1 with buzzer alarms if error occurs during storage process; Screen flashes and displays E2 with buzzer alarms when sensor error;LED displays "HH" when measuring temperature is between +99°C and 120°C.
 Note: Pressing any key can manually cancel the alarm sound, while alarm indicator light display status doesn't change.

Error information

| Error code | Error analysis | Response way |
|------------|---|--|
| E1 | It occurs to error during the storage process | Alarm,and the machion doesn't work |
| E2 | Storage sensor error | Alarm,and the compressor starts up or stops according to the proportional time |
| HH | Temperature exceeds setting display range | ---- |

Wiring Diagram



Safety rule

- ★Danger:
Please strictly distinguish the connections of relay, sensor and power. Make sure the relay is not overload.All the wire connection must be operated under the power off status.
- ★Warning:
Prohibit to use the controller under the circumstances such as :over moisture, over high temperature, strong electromagnetic interference, strong corrosion.
- ★Notice:
Make sure the voltage confirm to the marking on the machine and the power supply steady.It is advised to keep proper distance between sensor leads and power supply wire to avoid possible



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General

STC-8080HX-02 is a universal temperature controller with single sensor, specify all the functions as refrigerating, defrosting, alarming when temperature exceeds setting limit. Compressor delay protection time is adjustable, which can be applied to the industries such as cold storage, refrigerator car, etc.

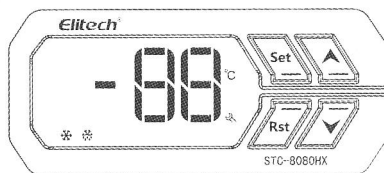
Specifications and size

Installing hole size: 71mm*29mm Product size: 80.5mm*34.9mm*65.8mm

Technical parameters

| | |
|-------------------------------|--|
| Power Supply | 220VAC +10%/-15%, 50/60Hz |
| Power consumption | ≤3W |
| Temperature measuring range | -50°C~+99°C |
| Temperature controlling range | -40°C~+50°C |
| Resolution | 1°C |
| Accuracy | ±1°C when temperature -40°C~+50°C, ±2°C at others |
| Relay capacity of compressor | 10A/277VAC, can drive single phase compressors:1/2HP |
| Relay capacity of defroster | 10A/277VAC |
| ensor error relay time | 1 minute |
| Sensor type | NTC sensor |
| Front panel safe level | IPX4 |
| Operating temperature | 0°C~60°C |
| Storage temperature | -30°C~+75°C |
| Relative humidity | 20%~85% (No condensate) |

Panel diagram



Descriptions of Indicator Lights

| Indicator | Symbol | Light status | Function |
|------------|--------|--------------|-------------------------|
| set | | on | Parameter setting |
| | | off | Normal status |
| cool | | On | Compressor works |
| | | off | Compressor not work |
| | | flash | Compressor output delay |
| defrost | | on | Defroster works |
| temp. unit | °C | on | Celsius |

Panel diagram

| Code | Manu function | Parameter seting ranges | Unit | Default |
|------|---------------------------------|---|--------|---------|
| F1 | Temp.upper limit | F2 ~ +50 | °C | -10 |
| F2 | Temp.lower limit | -40 ~ F1 | °C | -20 |
| F3 | Temp.calibration | -5 ~ +5 | °C | 0 |
| F4 | Compressor protection time | 0 ~ 9 | min | 3 |
| F5 | Exceeding temp.value | 0 ~ 50,Alarming be canceled when F5 is set as "0" | °C | 15 |
| F6 | Exceeding temp.alarm delay time | 0 ~ 99 | min | 20 |
| F7 | Defrost cycle | 0 ~ 99,Timing defrost be canceled when F7 is set as "0" | Hour | 8 |
| F8 | Defrosttime | 0 ~ 99,Timing defrost be canceled when F8 is set as "0" | Minute | 20 |

Key Functions and operation instructions

- ◆ Check parameters setting value (in the state of non-setting):
 - Press and release it immediately to display the set maximum value;
 - Press and release it immediately to display the set minimum value;
 - Press "Set" and release it immediately to display defrost cycle;
 - Press "Rst" key and release it immediately to display defrost time,2 seconds later, screen back to display current temperature.
- ◆ To modify the parameter setting mode:
 - Press "Set" for 3s to enter the parameter adjusting mode, and set indicator light on, LED displays the parameters adjusted last time.
 - Press or to choose desired parameters. After the selection of parameters the value of corresponding parameter is displayed by pressing "Set".
 - Press Set, and or simultaneously to adjust the value of parameters; Press "Set", and hold on or for more than 1 second to quickly increase or decrease the parameter value; Press or to alter other parameters after the setting of one parameter value. Just repeat the above-mentioned steps.
 - System will save the modified parameter value and back to the normal working status if pressing the "Rst" key or no key operations in 30s.
- ◆ Manual defrost:
 - Manual defrosting is allowed when defrosting time value is not set as "0".
 - Under non-defrosting status, press for 3s to start up the manual defrost.
 - Under defrosting status, press for 3s to close the manual defrosting.
- ◆ To restore parameter setting
 - Firstly, controller checks the parameter setting when electrified. Screen display "E1" when finding error, and buzzer alarm, then Press the "Set" key to restore the default value, and system works normally, it is advised to reset the parameter value in such cases.

Key function table:

| Key operation mode | Normal working status | Parameter mode |
|---|---|---|
| Press and release the "Set" key | To check the defrost cycle | Display the current menu parameter seting value |
| Press Set key for more than 3s | Enter into the parameter adjusting mode | |
| Press and release the "Rst" key | To check the defrost time | Exit from the parameter modifying mode |
| Press and release the key | To check the max temperature value | Menu item page up |
| Press and release the key | To check the min temperature value | Menu item page down |
| Press key for more than 3s | Manual defrosting | |
| Press "Set" key and key simultaneously | | To increase the parameter value quickly |
| Press "Set" key and key simultaneously | | To decrease the parameter value quickly |

Control output:

- ◆ Compressor:
 - Compressor starts up when measuring temperature is higher than the setting max. temperature value, and compressor close when the measuring temperature is lower than setting min. temperature value. Compressor works following the cycle as when probe fails: works for 15 minutes and then stops for 30 minutes. Compressor can restart up or completely stop only when the 3 minute's compressor protection time is run out of.
- ◆ Defrosting:
 - Defrosting starts in any of the following status:
 - Controller runs out of the setting defrosting cycle.
 - Under the non-defrosting mode, pressing the key for more than 3 seconds.
 - Note: Refrigerating output is forbidden during the defrosting process.
 - Defrosting stops in any of the following status:
 - Defrosting time is run out of.
 - Under the defrosting mode, pressing the key for more than 3 seconds. Another defrosting cycle run again when electrified or when the defrosting time used up. Defrosting function is canceled when defrosting cycle or defrosting time is set as 0. Manual defrosting is allowed when defrosting time is not set as 0.
- ◆ Alarm:
 - Exceeding temperature limit alarm:
 - When sensor measuring value is higher than maximum value + set alarming temperature value or lower than minimum value - set alarming temperature value, temperature controller alarms, buzzer works and LED blinks.