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# Elitech STC-9100 Double Sensor Temperature Thermostat User Guide
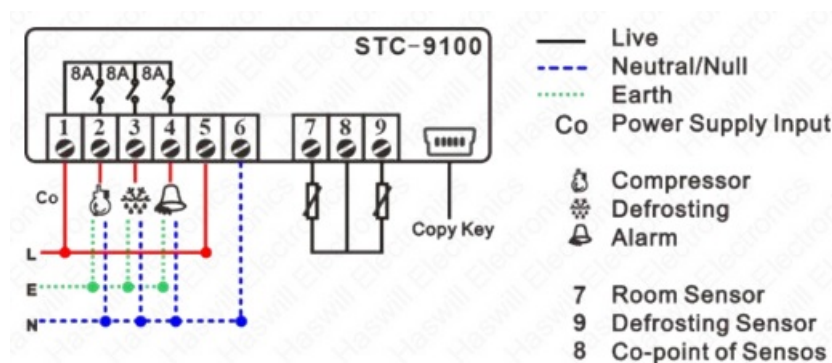
**Contents**

**Elitech STC-9100 Double Sensor Temperature Thermostat**

STC-9100 defrosting temperature controller controls three loads: the refrigeration device, the defrosting unit, and the External Alarm.

**Wiring Diagram**



**Set the temperature**

Please learn that the room temperature was supposed to keep at the range from "F1" to "F1 + F2" ("**SEt**" to "**SEt + HY**").

You can set them in both the user interface and the Admin Interface. Below is the 2nd method.

- Step 1: Enter the Admin Interface: hold the [SET] key and the [ ∨ ] key at the same time for 10s; you will see the code "F1" ("**SEt**").

- Step 2: Press the [SET] key to check current value, and press the ∧ key or the [ ∨ ] key to change the F1 value;

- Step 3: Press the [SET] key to save the new data, and back to the menu list, you will see the code "F1" (" ("**SEt**") ") again.

- Step 4: Switch to the "F2" ("HY") code by press the key.
  Repeat the above 2-4 steps to update all the code you want to.Repeat the above 2-4 steps to update all the

code you

want to.

**At last: Just leave the unit alone; it will auto quit from setting mode back to normal status in 10s.**

1. F1 ("**SEt**"): SP (Temperature Set-Point)
2. F2 (HY): Temperature Hysteresis / Return Difference
3. F3 (U5): Upper limit for SP
4. F4 (L5): Lower limit for SP
5. F5 (AC): Delay Time for the Compressor and Delay time for defrosting if it was Hot Gas mode

F 10 = 1 (tdF = HtG)

If you found the "F1" ("**SEt**") value cannot be modified to the value you need, please adjust the F3 and F4

(the US and the L5), which are the limitation for F1 ("**SEt**")

## Configure the Defrosting

This unit controls the defrosting by Time and Temperature.

- **Temperature Condition:** the evaporation sensor temperature is lower than the preset "defrosting Stop temperature" F8 (dte), which is a significant value to prevent over defrost.
- **Time Condition 1:** the real-time passes the preset interval time F6 (i d f), a regular parameter for almost all defrosting thermostats.
- Time Condition 2: If the "defrosting method" you take is the hot gas from the compressor reverse rotary when

F 10 = 1 (t d f = HtG), it will count the compressor's last stops moment plus F5 (ac), which is a

protective value to avoid the compressor frequently startup and stops.

**The operates method is just like page 1 shows;**

- F6 ( idF): Defrosting Cycle / Interval Time
- F7 (AdF): Defrosting Lasting/Running Time
- F8 (dtE): Defrosting Stop Temperature
- F9 (Fdt): Defrosting Water Dripping Time
- F 10 (tdF): Defrosting Mode:
  - 0 (EL): Electric-Heating.
  - 1 (CoH): Hot Gas from the compressor.
- F 11 (dCt): Count mode of defrost cycle:

- ○ **0 (rt):** Cumulative time from the controller power on.
- ○ **1 (CoH):** Cumulative time of the compressor working.
- **F 12 (dFd):** Display mode when defrosting:
  - ○ **0 (rt):** Shows the room sensor temperature display.
  - ○ **1 (it):** Shows the evaporator sensor temp. (continue showing 10 minutes once defrosting over)

## Set the External Alarm?

Check the Alarm output options in **F 13 (dno):**

| Code | Description | |
|------|-------------|---|
| n-C/0 | The alarm output's function was banned. | |
| A-C/1 | The alarm follows | press any key to stops |
| A-A/2 | the buzzer status | It cannot be canceled before fixed all errors. |

**And then check below items**

| Sensor Position | EN Code | F code | Meaning |
|-----------------|---------|--------|---------|
| Evaporator | ELL | F 14 | Lower Limit |
| | Eod | F 15 | Time delay |
| | ELU | F 16 | Upper Limit |
| Room | ALU | F 17 | Upper Limit |
| | ALL | F 18 | Lower Limit |
| | ALd | F 19 | Time delay |

This is not a step-by-step user manual; It just shows the key points. The new user should read the Full-Content Version User Manual



**Haswill Electronics**
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## Documents / Resources

**Elitech STC-9100 Double Sensor Temperature Thermostat** [pdf] User Guide
STC-9100, Double Sensor Temperature Thermostat

## References

- 🔴 **Haswill Electronics - An exporter of digital temperature devices from China**
- 🔴 **STC-9100 Defrost Temperature controller with External Alarming**

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