

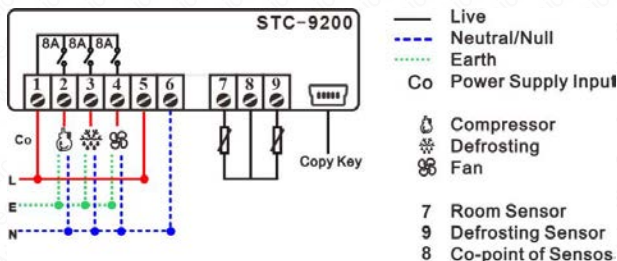
STC-9200 Thermostat

Quick Start Guide

(Version 21.08.02GEN)

STC-9200 digital temperature controller controls three loads: the refrigeration device, the defrosting unit, and the Evaporator Fan; Typically suited to an oversized freezer room.

1. Wiring Diagram



2. Set the target temperature

The room temperature was supposed to keep at the range

from " $F I$ " to " $F I + F2$ " (" SEL " to " $SEL + HY$ ").


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

Step 1: enter the Admin Interface by hold the [SET] key and the [▼] key at the same time for 10s; you will see the code " $F I$ " (" SEL ").

Step 2: Press the [SET] key to check current value, and press the ▲ key or the ▼ key to change the $F I$ value;

Step 3: Press the [SET] key to save the new data, and

back to the menu list, you will see the code "**F I**" ("**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.

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

- 1) **F I** (**SEt**): SP (Temperature Set-Point)
- 2) **F2** (**HY**): Temperature Hysteresis / Return Difference
- 3) **F3** (**US**): 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

$$F10 = 1 \quad (LdF = HLG)$$

If you found the "**F1 (SEt)**" value cannot be modified to the value you need, please adjust the **F3** and **F4** (**US** and **L5**), which are the limitation for **F1 (SEt)**.

3. 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" $F\theta$ (dLE), which is a significant value to prevent over defrost.

Time Condition 1: the real-time passes the preset interval time FE (idf), 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

$FIO = 1$ ($EdF = HEG$), it will count the

compressor's last stops moment plus FS (ac), which is a protective value to avoid the compressor frequently startup and stops.

The operates method is just like page 1 shows;

6) **F6 (IdF)**: Defrosting Cycle / Interval Time

7) **F7 (AdF)**: Defrosting Lasting/Running Time

8) **F8 (dLE)**: Defrosting Stop Temperature

9) **F9 (FdL)**: Defrosting Water Dripping Time

10) **F10 (EdF)**: Defrosting Mode:

- **0 (EL)**: Electric-Heating.
- **1 (HEG)**: Hot Gas from the compressor.

11) **F11 (dLE)**: Count mode of defrost cycle:

- **0 (rL)**: Cumulative time from the controller power on.
- **1 (CoH)**: Cumulative time of the compressor working.

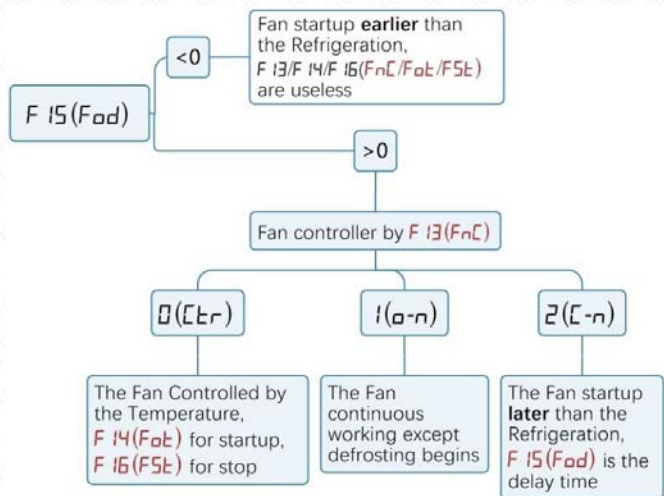
12) **F12 (dFd)**: Display mode when defrosting:

- A. **0 (rL)**: Shows the room sensor temperature display.

- B. **I (*i*t)**: Shows the evaporator sensor temp. (continue showing 10 minutes once defrosting over)

4. Set the Evaporation Fan?

Check the **F 15 (F_{od})** value before others



13) **F 15 (F_{od})**: Time delay seconds for the Fan

- A. < 0 : in this case, **f 15 (F_{od})** is the period for the Fan starts earlier than the compressor starts, Fan stops if defrosting begins.
- B. ≥ 0 : Fan was controller by **F 13 (F_nC)**.

- 14) **F 13**: Fan output modes when $f\ 15\ (F_{od}) \geq 0$
- A. **0** (**Clr**): Fan Starts by **F 14** (**F_{olt}**), Stop by **F 16** (**F_{St}**).
 - B. **1** (**on**): continuous working except defrosting begins.
 - C. **2** (**C-n**): in this case, **F 15** (**F_{od}**) is the time for the Fan to start later than the compressor; the Fan stops if defrosting begins.
- 15) **F 14** (**F_{olt}**): Defrost sensor Temp for Fan Starts
- 16) **F 16** (**F_{St}**): Defrost sensor Temp for Fan Stops

5. Set the Alarm

The alarm function is based on the room sensor temperature, and the Alarm also works if the evaporator sensor is broken.

- 17) **F 17** (**ALU**): Upper Temperature of the Room sensor to Trigger Alarm

18) **F 18 (ALL)**: Lower Temperature of the Room
sensor to Trigger Alarm

19) **F 19 (ALd)**: Time delay of the Room sensor to
Trigger Alarm

20) **F20 (aL)**: Temperature Calibration = Real
Temperature - Measured Temperature.

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

[STC-9200 Defrost Fan Controller](#)

Copyright Haswill-Haswell All Rights Reserved