

# STC-9200 Thermostat

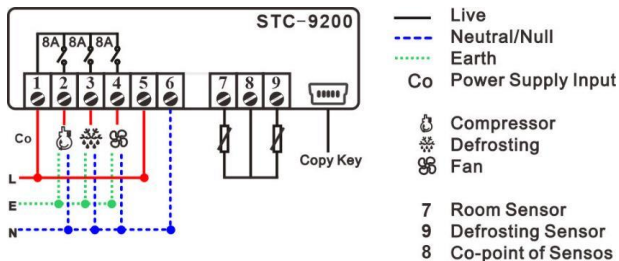
## Quick Start Guide

(Version 22.11.03GEN)

[Video on YouTube](#)

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 1" to "F 1 + F2" ("SE1" to "SE1 + HY").

You can set them in the user interface and the Admin Interface; below is the 2<sup>nd</sup> 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 1" ("SE1").

**Step 2:** Press the [SET] key to check current value, and press the ▲ key or the ▼ key to change the F 1 value;

**Step 3:** Press the [SET] key to save the new data, and back to the menu list, you will see the code "F 1" ("SE1")

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) 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 (RC): Delay Time for the Compressor and Delay

time for defrosting if it was Hot Gas mode  $F10 = I$

( $LdF = HLG$ )

If you found the "F I" (5EE) value cannot be modified to the value you need, please adjust the F3 and F4 (L5 and L5), which are the limitation for F I (5EE).

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### 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" FB (dLE), which is a significant value to prevent over defrost.

**Time Condition 1:** the real-time passes the preset interval time  $F5 (t_dF)$ , 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  $F10 = 1 (t_dF = HtE)$ , it will count the compressor's last stops moment plus  $F5 (tE)$ , which is a protective value to avoid the compressor frequently startup and stops.

The operates method is just like page 1 shows;

- 6)  $F5 (t_dF)$ : Defrosting Cycle / Interval Time
- 7)  $F7 (R_dF)$ : Defrosting Lasting/Running Time
- 8)  $F8 (d_tE)$ : Defrosting Stop Temperature

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

10)  $F10 (LdF)$ : Defrosting Mode:

- $0 (EL)$ : Electric-Heating.
- $1 (HLG)$ : Hot Gas from the compressor.

11)  $F11 (dEL)$ : Count mode of defrost cycle:

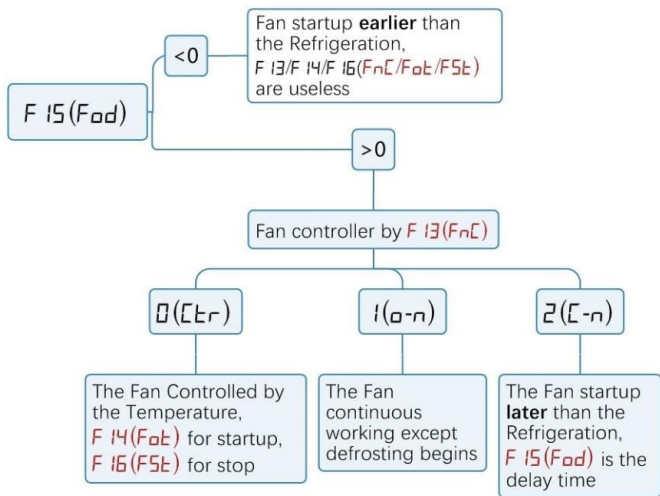
- $0 (rL)$ : Cumulative time from the controller power on.
- $1 (ELH)$ : Cumulative time of the compressor working.

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

- A.  $0 (rL)$ : Shows the room sensor temperature display.
- B.  $1 (L)$ : Shows the evaporator sensor temp. (continue showing 10 minutes once defrosting over)

## 4. Set the Evaporation Fan?

Check the  $F15 (Fod)$  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.  $\geq 0$ : Fan was controller by  $F_{13} (F_{nC})$ .

14)  $F_{13}$ : Fan output modes when  $F_{15} (F_{od}) \geq 0$

- A.  $0 (C_{t-r})$ : Fan Starts by  $F_{14} (F_{ot})$ , Stop by  $F_{15} (F_{St})$ .
- B.  $1 (o-n)$ : continuous working except defrosting.
- 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)  $F_{14}$  ( $F_{\text{aT}}$ ): Defrost sensor Temp for Fan Starts

16)  $F_{16}$  ( $F_{5T}$ ): 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)  $F_{17}$  ( $RLU$ ): Upper Temperature of the Room sensor to  
Trigger Alarm

18)  $F_{18}$  ( $RLD$ ): Lower Temperature of the Room sensor to  
Trigger Alarm

19)  $F_{19}$  ( $RLd$ ): Time delay of the Room sensor to Trigger  
Alarm

20)  $F_{20}$  ( $\text{aT}$ ): Temperature Calibration = Real



Temperature - Measured Temperature.

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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](#)

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