



# HASWILL ELECTRONICS STC-9200 Digital Temperature Controller User Guide

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HASWILL ELECTRONICS  
STC-9200 Thermostat  
Quick Start Guide  
(Version 22.11.03GEN)  
[Video on YouTube](#)

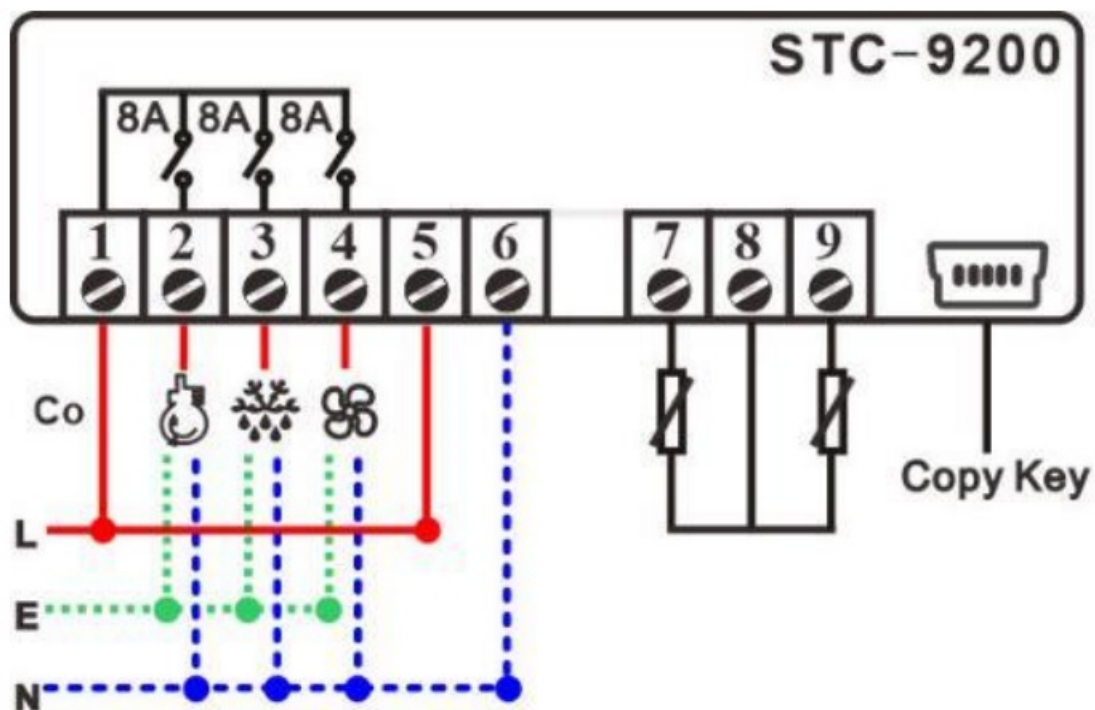
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## STC-9200 Digital Temperature Controller

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.

## Wiring Diagram



	Live
	Neutral/Null
	Earth
<b>Co</b>	Power Supply Input
	Compressor
	Defrosting
	Fan
7	Room Sensor
9	Defrosting Sensor
8	Co-point of Sensos

## Set the target temperature

The room temperature was supposed to keep at the range from “F1” to “F1 + F2” (“SET” to “SET + 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 “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.

**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 (US): Upper limit for SP
4. F4 (LS): 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 (TDF = HTG)

If you found the “F1” (SET) value cannot be modified to the value you need, please adjust the F3 and F4 (US and LS), 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 (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 F10 = 1 (TDF = 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;

- 6) F6 (IDF): Defrosting Cycle / Interval Time
- 7) F7 (ADF): Defrosting Lasting/Running Time
- 8) F8 (DTE): Defrosting Stop Temperature

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- 6) F6 (IDF): Defrosting Cycle / Interval Time
- 7) F7 (ADF): Defrosting Lasting/Running Time
- 8) F8 (DTE): Defrosting Stop Temperature
- 9) F9 (FDT): Defrosting Water Dripping Time

## 10) F10 (TDF): Defrosting Mode:

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

11) F11 (DCT): Count mode of defrost cycle:

- 0 (RT): Cumulative time from the controller power on.
- 1 (COH): Cumulative time of the compressor working.

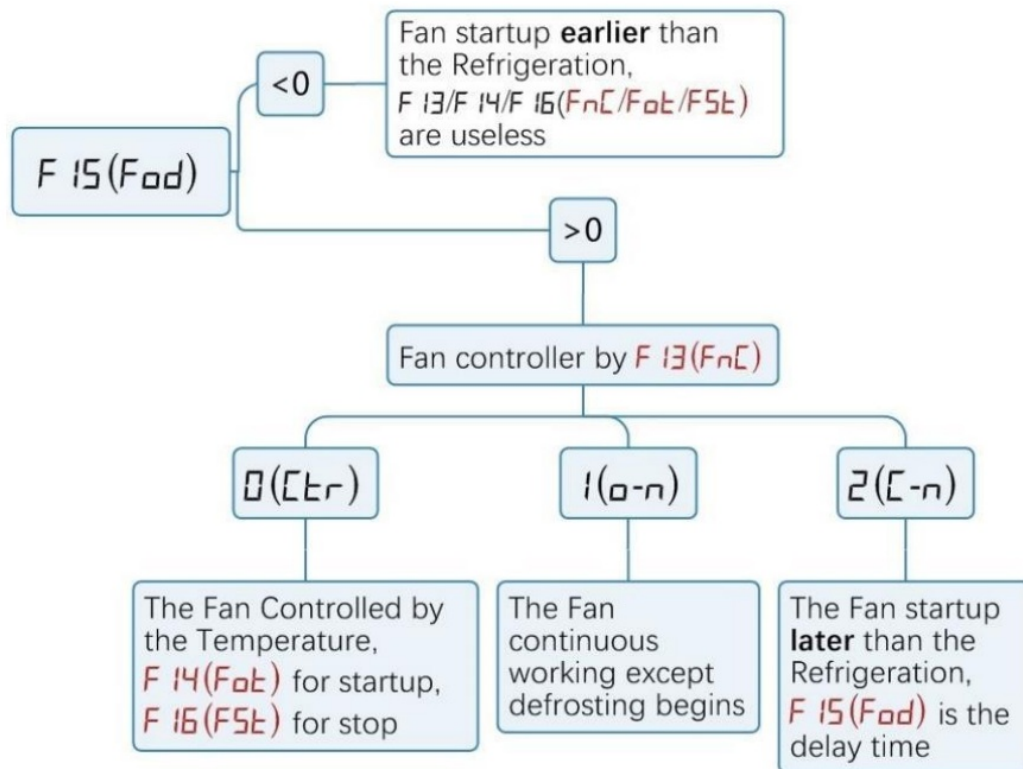
## 12) F12 (DFD): Display mode when defrosting:

A. 0 (RT): Shows the room sensor temperature display.

B. 1 (IT): Shows the evaporator sensor temp. (continue showing 10 minutes once defrosting over)

## Set the Evaporation Fan?

Check the F15 (FOD) value before others



## 13) F15 (FOD): Time delay seconds for the Fan

A. < 0: in this case, f15 (FOD) is the period for the Fan starts earlier than the compressor starts, Fan stops if defrosting begins.

B. ≥ 0: Fan was controller by F13 (FMC).

## 14) F13: Fan output modes when f15 (FOD) ≥ 0

A. 0 (CTR): Fan Starts by F14 (FOT), Stop by F16 (FST).

B. 1 (O-N): continuous working except defrosting.

C. 2 (C-N): in this case, F15 (FOD) is the time for the Fan to start later than the compressor; the Fan stops if defrosting begins.

15) F14 (FOT): Defrost sensor Temp for Fan Starts

16) F16 (FST): Defrost sensor Temp for Fan Stops

## 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) F17 (ALU): Upper Temperature of the Room sensor to Trigger Alarm

18) F18 (ALL): Lower Temperature of the Room sensor to Trigger Alarm

19) F19 (ALD): Time delay of the Room sensor to Trigger Alarm

The new user should read the Full-Content Version User Manual



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