



OLYCAT STC-9200 Digital Temperature Controller Thermostat User Guide

[Home](#) » [OLYCAT](#) » OLYCAT STC-9200 Digital Temperature Controller Thermostat User Guide



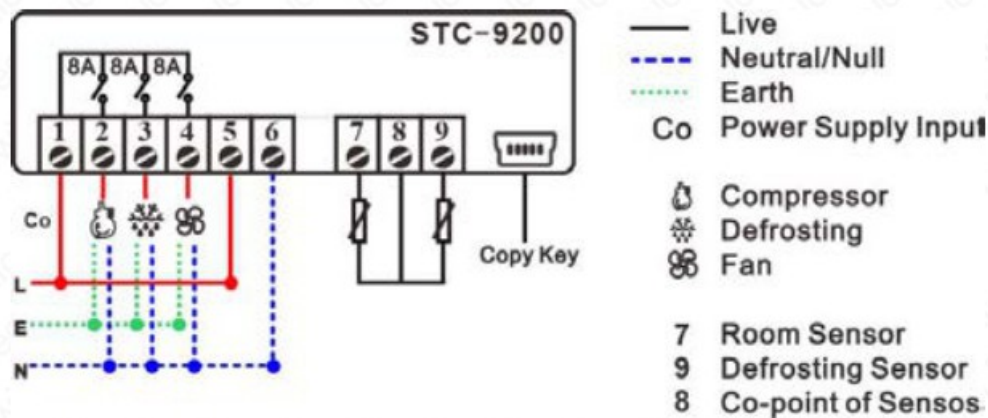
Quick Start Guide (Version 21.08.02GEN)

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.

Contents [[hide](#)]

- [1 Wiring Diagram](#)
- [2 Set the target temperature](#)
- [3 Configure the Defrosting](#)
- [4 Set the Evaporation Fan?](#)
- [5 Set the Alarm](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)
- [7 Related Posts](#)

Wiring Diagram



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 2 nd 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.

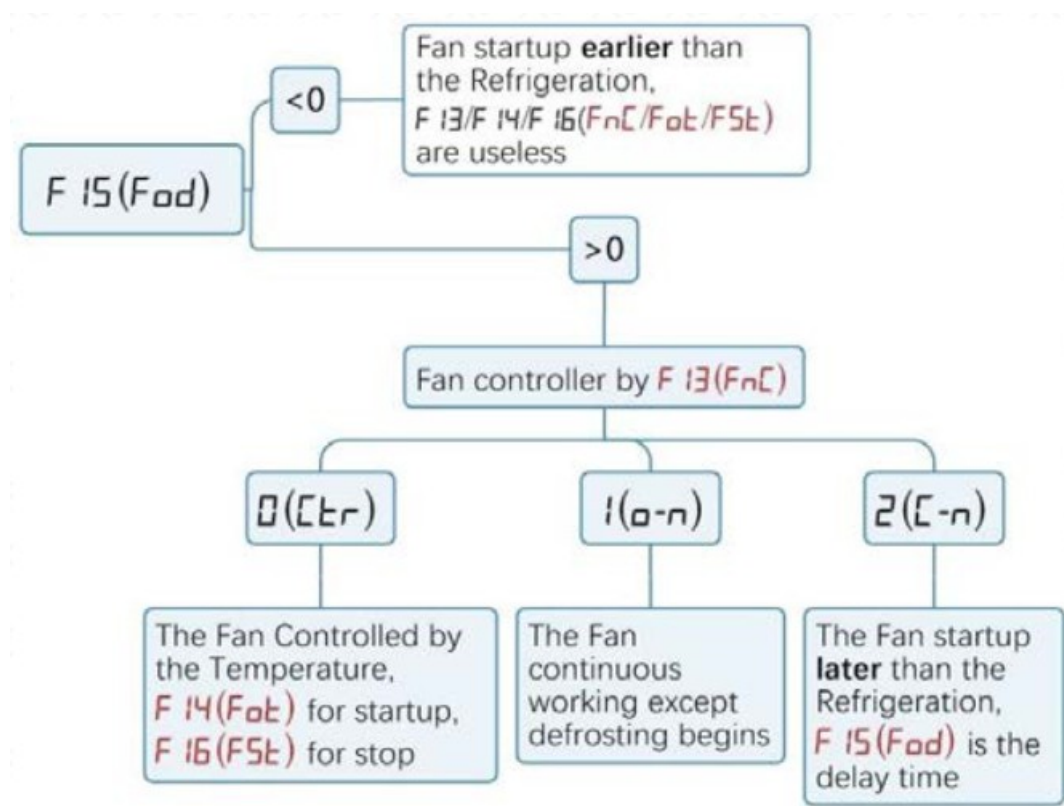
The operates method is just like page 1 shows;

- 6) **F6 (IDF):** Defrosting Cycle / Interval Time

- 7) **F7 (ADF)**: Defrosting Lasting/Running Time
- 8) **F8 (DTE)**: Defrosting Stop Temperature
- 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 begins.
 - 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
- 20) **F20 (OT)**: Temperature Calibration = Real Temperature – Measured Temperature.

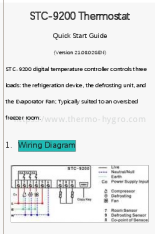
This is not a step-by-step user manual;
It just shows the key points.
The new user should read the Full-Content Version User
Manual



Haswill Electronics
STC-9200 Defrost Fan Controller
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<https://www.thermo-hygro.com>

Documents / Resources

	<p>OLYCAT STC-9200 Digital Temperature Controller Thermostat [pdf] User Guide STC-9200, Digital Temperature Controller Thermostat, STC-9200 Digital Temperature Controller Thermostat</p>
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References

-  [Haswill Electronics - An exporter of digital temperature devices from China](#)
-  [Cheape STC-9200 Defrost Fan Temperature controller](#)