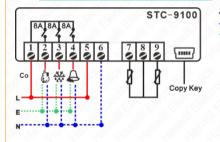
#### STC-9100 Thermostat

Quick Start Guide

(Version 21.08.02GEN)

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

#### 1. Wiring Diagram



- Live
  --- Neutral/Null
  --- Earth
  Co Power Supply Input
  - Co Power Supply Input
  - ☼ Compressor
    ₩ Defrosting
  - Alarm
    - 7 Room Sensor
  - 9 Defrosting Sensor
  - 8 Co-point of Sensos

### 2. Set the temperature

Please learn that the room temperature was supposed to keep at the range from "F I" to "F I + F2" ("F1" to

"5EL + HY").

You can set them in both the user interface and the Admin Interface. Below is the 2<sup>nd</sup> 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 "F I" ("SEE").
- Step 2: Press the [SET] key to check current value, and press the ▲ key or the ➤ key to change the ► 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 | "

  ("SEL") again.

Step 4: Switch to the "F2" ("H⅓") 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 / (SEL): SP (Temperature Set-Point)
- 2) F2 (H4): Temperature Hysteresis / Return
  Difference
- 3) F3 (U5): Upper limit for SP
- 4) **F4** (**L5**): Lower limit for SP

5) F5 ( $\Pi$ C): Delay Time for the Compressor and Delay time for defrosting if it was Hot Gas mode F  $\Pi$  = 1 (EdF = HEC)

If you found the "F I" (SEE) value cannot be modified to the value you need, please adjust the F and F4 (the U5 and the L5), which are the limitation for F I (SEE).

# 3. Configure the Defrosting

This unit controls the defrosting by Time and Temperature.

 prevent over defrost.

**Time Condition 1:** the real-time passes the preset interval time **F6** (**i 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

F | | = | (t df = HLG), 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) **F G** ( **IJF**): Defrosting Cycle / Interval Time

7)	F7 (FUF): Defrosting Lasting/Running Time
8)	FB (JLE): Defrosting Stop Temperature
9)	F9 (F4E): Defrosting Water Dripping Time
10)	<ul> <li>F □ (上山F): Defrosting Mode:</li> <li>□ (上山): Electric-Heating.</li> <li>I (HL□): Hot Gas from the compressor.</li> </ul>
11)	<ul> <li>F     (☐☐☐): Count mode of defrost cycle:</li> <li>☐ (☐☐): Cumulative time from the controller power on.</li> <li>☐ (☐☐H): Cumulative time of the compressor working.</li> </ul>
12)	F 12 (☐F☐): Display mode when  defrosting:  A. ☐ (¬E): Shows the room sensor temperature display.
	B. $I(\mathbf{L})$ : Shows the evaporator sensor

temp. (continue showing 10 minutes once defrosting over)

## 4. Set the External Alarm?

Unlike other defrost thermostats, which only reference the room sensor, this unit STC-9100 also monitors the

evaporator sensor temperature.

Check t	he Alarm output op	tions in <b>F 13</b> (dno):		
Code	Description			
n-[/[	The alarm output's	function was banned.		
H-C/I	The alarm follows the buzzer status	press any key to stops		
H-H/2		It cannot be canceled before fixed all errors.		
<u> </u>				

And then check below items

Sensor Position	EN Code	F code	Meaning
an all and the state of the sta	ELL	F IH	Lower Limit
Evaporator	End	F 15	Time delay
	ELU	F 16	Upper Limit
-5 -5 -5 -5 -5	ALU	FΠ	Upper Limit
Room	ALL	F IB	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

STC-9100 Temperature Control & Monitor System

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