Version 2.0.0(2024.03.22)

WWW CONOTEC CO KR

CONOTEC CO., LTD. DIGITAL TEMPERATURE CONTROLLER



DSFOX - SLW30

Instruction Manual



a detailed description

- A user manual for this product is posted on the company website.
- Please download the technical document and communications manual on the company website

01 Safety precautions

Please read the safety precautions carefully for correct operation of the product.

X The specifications and dimensions specified in this instruction manual may be changed without any notice for performance enhancement

▲ Warning

- 1. This product was not made as a safe device. Therefore, this product should be attached with dual safety devices if it is used for the control purposes (e.g. a device vulnerable to accident and property damage, etc.).
- 2. Do not wire, inspect or service this product while the power is being supplied.
- 3. You must attach this product to a panel. Otherwise, it may cause 8 Temperature unit 9 Anti-low temperature output display an electric shock.
- 4. When connecting the power, you must check the terminal number.
- 5. Do not ever disassemble, process, modify or repair this product.

▲ Caution

- 1. Please make yourself familiar with all the operation instructions, safety precautions and warnings before using this product. Comply with related specifications and capacity requirements
- 2. Do not wire or install this product to any unit with high inductive load (e.g. motor, solenoid, etc.).
- 3. Use a shielded cable with a proper length when extending a sensor.
- 4. Do not use any part that generates an arc when used in the same power or directly switched in close proximity.
- 5. Keep the power cable away from a high-voltage cable and do not install this product in any place that is full of water, oil and dust.
- 6. Do not install this product in any place that is exposed to direct sunlight or rain.
- 7. Do not install this product in any place that is subject to strong magnetic power, noise, vibration or shock.

- 8. Keep this product away from any place that generates strong alkaline or acid substances. Use a separate pipe.
- 9 Do not sprinkle water onto this product for cleaning when installing it in the kitchen
- 10. Do not install this product in any place where the temperature/ humidity ratings are exceeded
- 11. The sensor cable should not be cut or cracked.
- 12. Keep the sensor cable away from a signal cable, a power cable or a load cable. Use a separate pipe.
- 13. Keep in mind that the follow-up service will not be available if this product has been arbitrarily disassembled and modified
- 14. A symbol on the terminal wiring diagram indicates a safety statement that alerts a warning or caution.
- 15. Do not use this product near any device generating strong high-frequency noise (e.g. high-frequency welding machine high-frequency sewing machine, high-frequency radio, large-capacity SCR controller, etc.).
- 16. Using this product in any method other than those specified by by the manufacturer may lead an injury or a property damage
- 17. The product is not a toy. Keep it away from children.
- 18. The product should be installed only by an expert or a qualified person.
- 19. The company will not be liable for any damage caused by the violation of the above warnings and cautions or by a consumer's fault

▲ Danger

Caution: Risk of electric shock

- Electric shock Do not touch the AC terminal while the current is flowing It may cause an electric shock.
- · You must disconnect the input power when serviving it.

02 Model Types

Model	Sensor	Control Type	Temperature Range	Power	Function
DSFOX-SLW30 (for freezing)	NTC 10K	Relay contact (3EA) Evhaun capacity (5A)	Celsius : - 55.0 °C ~ + 99.9 °C Fahrenheit : - 60 °F ~ + 200 °F	100~240 VAC 50/60Hz	Comp control Defrosting control FAN control WIFI Communications

03 Components



- 1 Comp output display 2 Defrosting output display 3 Fan output display
- 4 SET switch 5 Defrost & Previous Key 6 Up switch 7 Down switch
- 10 Show server connection status

04 Terminal wiring diagram



- * Output : 250VAC 2A; A power relay or a magnet must be used.
- * Be careful that any load over the contact capacity may cause contact fusion, contact defect, relay damage or others.
- * Ethernet cables are sold separately and are not included as basic components.

05 Setting process

Setting Method

Name	Image	Description
Set key	SET	Change temperature settings and program settings Select and save data values
Defrost key/Back key		Manual defrosting ON/OFF Go to the previous menu when setting up a program
Up/Down key	▲ / ▼	Increment/decrement of the selected menu data

Chance of the temperature output's set temperature (temperature setting)

- 1) If you press the SET key once, the setting will blink and be displayed.
- 2) Increase or decrease the setting with the \checkmark or \checkmark key
- Installer mode settings (Program settings)
- 1) Press the SET key for at least 5 seconds to enter into the installer mode
- 2) Configure the program based on the temperature program configuration diagram
- 3) Press
 key for Enter the previous setting menu (*Program setting mode only)
- System running / Stopping
- 1) In the running mode : System shut down by pushing +
- 2) In the stop mode : System runs by pushing +

Program Setting (The value of each item is the factory setting.)





06 Function details

- FH I : Change various settings for temperature output and other settings
- Modification of various settings for defrosting E85 and fan output
- 683 Modification of various settings for alarm
 - : Change settings for Wi-Fi

Holt : Change of the temperature unit

- [(temperature displayed in Celsius)
- F (temperature displayed in Fahrenheit)
- \wedge Note : If you change the Unit *E* while the product is running. all the settings except for the Unit will be initialized to factory settings. Please reset all the settings.

 $\square F$: Deviation temperature setting

- For on/off control, there should be a certain interval between on and off.
- A relay or other output contacts may be quickly damaged or experience hunting (electricity generation, chattering,etc.) due to an external noise if the on/off function is used too frequently.
- Different temperature is set to prevent such phenomenon and protect relevant contacts.
- Ex1) Set temperature : 10.0°C, dF : 5.0



CH - : Comp Output delay time setting

- Used if the on/off function of a control target is used too frequently (freezer, compressor, etc.)
- Protects running machine from momentary outage or power re-connection.
- Ex) When is the output on for the following conditions: set temperature (10.0℃); *d E*(00.30), *d F*(5.0℃)?



(Current

Correction of the current temperature

- Used to correct the current temperature based on the reference temperature (e.g. mercury thermomrter, existing thermometer, thermostat, etc.) when there is an input error by an external sensor even though the product itself does not have any problem.

- Ex) Actual temperature : 10.0 °C \longrightarrow Cor Modification of 0.0 to -2.0 → Displayed as 10.0 (current temperature modified)

: Locking of the setting

- Safety function intended to prevent anyone other than the main user from changing the settings
- If set at on : All the settings expect for the set temperature will be locked.
- If set at oFF : All the settings will be unlocked.

: Setting initialization

- If set at -5E: The current temperature will be displayed after the product's model name is displayed.

∧ Note: All the settings will be initialized to factory settings. Please verify them.



: Defrosting OFF time (defrosting cycle)

Defrosting will proceed after the set time elapses.

- : Defrosting ON time
- Defrosting will commence when the defrosting cycle comes.

	Defrosting stopped	Defrosting output	Defrosting stopped	Defrosting output	
Ť	doF (240MIN)	don (10MIN)	doF (240MIN)	ם ה (10MIN)	

- Defrosting will be repeated for 10 minutes every 240 minutes. * Note: If 'don 0 , defrosting will be prohibited

How to set up manual defrost



2. Manual defrost OFF : With manual defrost on, press the **o** key continuously for 3 seconds to turn off. Or automatically shut down after DON time

Fan action setting(FI~F4) Γςμ

		When comp is ON	When comp is OFF	When defrosting is ON	
Fan setting	F I	Fan ON	Fan	OFF	
	F2	Fan ON			
	F3	Fan ON	Fan OFF	Fan ON	
	FЧ	Fan	Fan OFF		

Post-defrosting comp output delay time setting

- A compress is output after a delay of the time set after defrosting.



: Comp accumulation defrosting time option

- If set at on : Defrosting operation based on the comp accumulation
- If set at oFF : Defrosting operation based on the cycle
- ₭ If the comp accumulation time is greater than doF (defrosting OFF time), defrosting will commence.

IFS: Low-temperature prevention temperature difference setting

- If LES is 0, the low temperature prevention function will be off.
- Current temperature \leq (set temperature LE5)
- → Defrosting/fan ON
- (When running in the LES mode, defrosting/fan will be instantly output regardless of the fan setting chart)
- Ex) Current temperature : 5.0°C, Set temperature : 10.0°C, LE5 : 5.0°C



-551 : received signal sensitivity

- Displays the received signal sensitivity of the Wi-Fi. (Unable to set)
- 0: Weakness ~ 3 : Strongness
- P : Network Initialization
 - Initialize the Wi-Fi network environment.

07 How to connect the controller router Wi-Fi Settings Wi-Fi Settings



* This is an example screen.

Server

Edit

- Access WizFi360 that is operated by AP with a mobile phone with Wi-Fi connection
- The SSID of the WizFi360 operating as an AP is
- WizFi360_<6 digits behind MAC address>



- Internet unavailable Agree, notification message occurs -> Connect only this time
- Type "192.168.36.1" in the Internet address window and access the Web Serve
- Select from the SSID input or List of the AP (router) to which the controller will access, then press the AP (router) password (PWD) input SAVE button to connect.
- Check the SERVER display on the front
- It supports WIFI 2.4Ghz communication method.
- For more information about connecting to the server, see the detailed documentation.
- Real-time monitoring is possible if product registration (device addition is completed on the communication server (FOXIOT.KR).



08 Diemension and panel hole sizes



- Fall
 - Ex) Hat: 0 1.00 (1 MIN)

09 Easy error diagnosis instructions

X If an error is displayed while the product is running

- Fr 1 Fry This is the case when the product receives strong noise from the outside during use and the memory elements of various data are damaged. In this case, request warranty from us.
- Although this controller was designed to withstand a certain level of external noise, it is not supposed to withstand all levels of noise
- If the product is subject to a noise greater than 2KV, it could be internally damaged.
- If **-** (open error) or **-** (short error) is displayed, there is something wrong with a sensor. Please check the sensor.
- If find (defrosting ON) is displayed, the product is in the defrosting mode.
- **CoEr** If the same text appears, please check the router connection status and product registration status.
- Put If you see the same text (password error), please double check the SSID and password of the router.
- A text such as $I_{of}P$ (lock) indicates that the product is in the lock mode
- If (OK) is displayed, settings have been saved.
- If 5930 (product name) is displayed, it refers to a model name.

	 The above specifications may be changed without any for performance enhancement. Please make yourself fully familiar with and follow the above precautions. Warranty period: One year from the date of purchase Address : (Street address) 56, Ballyongsandan 1-rp, Jangan-eup, Gijang-gun, Busan, ROK (Land-lot address) 901-1, Ballyong-ri, Jangan-eup, Gijang-gun, Busan, ROK (46034)
er t,	 Product service : 070-7815-8289 Customer service : 051-819-0425 ~ 0427 FAX : 051-819-4562 Email : conotec@conotec.co.kr SNS : Facebook, Instagram, Twitter, YouTube ► 'Search for 'Conotec' Website : www.conotec.co.kr Installation precautions This device sholuld be connected to a protective earth terminal and a power supply in order to prevent an electric shock. Do not block the air outlet.
	 Operation precautions An operating environment of this device is as follows. Ambient temperature : 0 ~ 60°C Ambient humidity : 80%RH or less Indoor uses only Pollution class 2 Altitude under 2000m Installation category : This device should be laid out in a way that its power cord is easy to handle. Using this product in any method other than those specified by the manufacturer may damage its protection function
	 Major products and development Temperature/humidity controller Counter and timer controller Current and voltage panel meter Temperature/humidity indicator Oven controller CO2 controller PID controller Unit cooler controller * This manual was prepared in the Naver Nanum