

CONOTEC CO., LTD.

DIGITAL TEMPERATURE CONTROLLER







DSFOX - TP10

INSTRUCTION MANUAL



- 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.

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.).
- 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 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

- 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.
- 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.
- 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.
- Do not sprinkle water onto this product for cleaning when installing it in the kitchen.
- 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 servicing it.

02 Model Type

Model	Sensor	Control Type	Temp. Range	Power Supply	Function
DSFOX-TP10	PT 100Ω	Relay Contact	Celsius: - 200.0 °C ~ + 400.0 °C Fahrenheit: - 328 °F ~ + 752 °F	100~240 VAC 50/60Hz	Temp. Control

03 Componemts

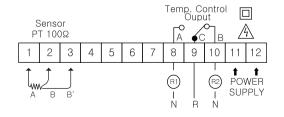


1 Temp. Control Output Display 2 Setting Key 3 Back Key

4 Up Key 5 Down Key 6 Temp. Unit

04 Terminal wiring diagram

[DSFOX - TP10]



- * 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.

05 Setting process

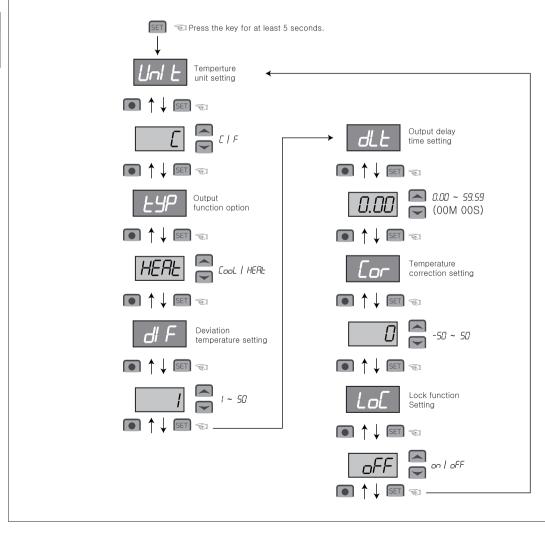
Setting Method

r .			
	Image	Description	
Name	SET	Entry into or return to the settings page Selection and saving of data values	
Set key	•	Go to the previous menu when setting up a program	
Back key Up/Down key	<u> </u>	Increment/decrement of the selected menu data	

- Chance of the temperature output's set temperature (temperature setting)
- If you press the SFT key once, the setting will blink and be displayed.
- 2) Increase or decrease the setting with the or wkey
- Installer mode settings (Program settings)
- 1) Press the **SET** key for at least 5 seconds to enter into the installer mode.
- Configure the program based on the temperature program configuration diagram.
- Press ♠ key for Enter the previous setting menu (*Program setting mode only)

Temperature Setting The current temperature will be displayed. The current temperature will be displayed. If the press the key, the setting will blink. Use the or key to change the setting. Change of the set temperature Press the key after changing the setting. OK (setting confirmation text, will be displayed, and the current temperature will be shown. Current temperature

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



06 Function details



- That F: Change of the temperature unit
 - [(temperature displayed in Celsius)
 - F (temperature displayed in Fahrenheit)

Note: If you change the Unl E while the product is running, all the settings except for the Unit will be initialized to factory settings. Please reset all the settings.



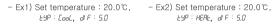
Output function option

Cooling(EooL) or Heating(HERL)

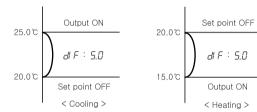


Deviation temperature setting

- 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.



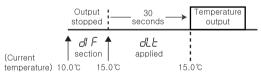
ESP : HERE, at F : 5.0





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°C); d L(00.30), d F(5.0°C)?





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.

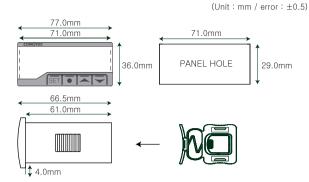




Locking of the setting

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

07 Diemension and panel hole sizes



08 Easy error diagnosis instructions

¥ If an error is displayed while the product is running

[F]: It is case where the product was subject to a strong external noise and internal data memories have been damaged In this case, contact us for product service.

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 (OK) is displayed, settings have been saved.
- A text such as [GFP] (lock) indicates that the product is in the lock mode.
- If F 11 (product name) is displayed, it refers to a model name.

- * The above specifications may be changed without any notice for performance enhancement. Please make vourself 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)

- Product service : 070-7815-8289
- Customer service : 051-819-0425 ~ 0427
- FAX: 051-819-4562
- Email: oversesa-sales@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 : II
- 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
 Heat pump controller

Temperature/

- Current and voltage panel meter Thermo-hygrostat controller
- Temperature/humidity indicator Short message alarm
- Oven controller
- CO2 controller
- PID controller
- Unit cooler controller
- humidity transmitter · Smartphone app and monitoring system
- * This manual was prepared in the Naver Nanum fonts.