

CONOTEC

CONOTEC CO., LTD.
DIGITAL TEMPERATURE CONTROLLER



FOX-1H, 1H-2

Instruction Manual



[FOX-1H]



[FOX-1H -2]

- 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.).
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 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. ⚠ 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 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

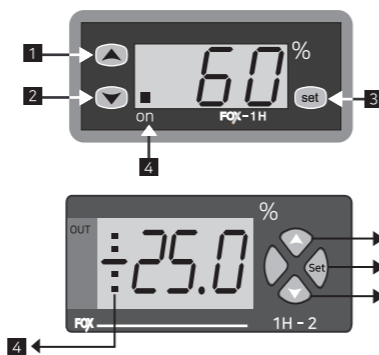
Caution: Risk of electric shock

- 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 Types

Model	Control method	Sensor	Humidity range
FOX-1H	1c 250Vac2A	HCPV-220H	10%~95%Rh
FOX-1H-2			

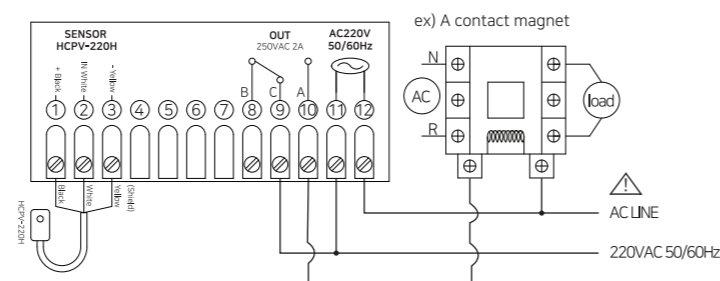
03 Components



- 1 UP switch(UP) 2 Down switch(DN) 3 Set switch(SET) 4 Output display

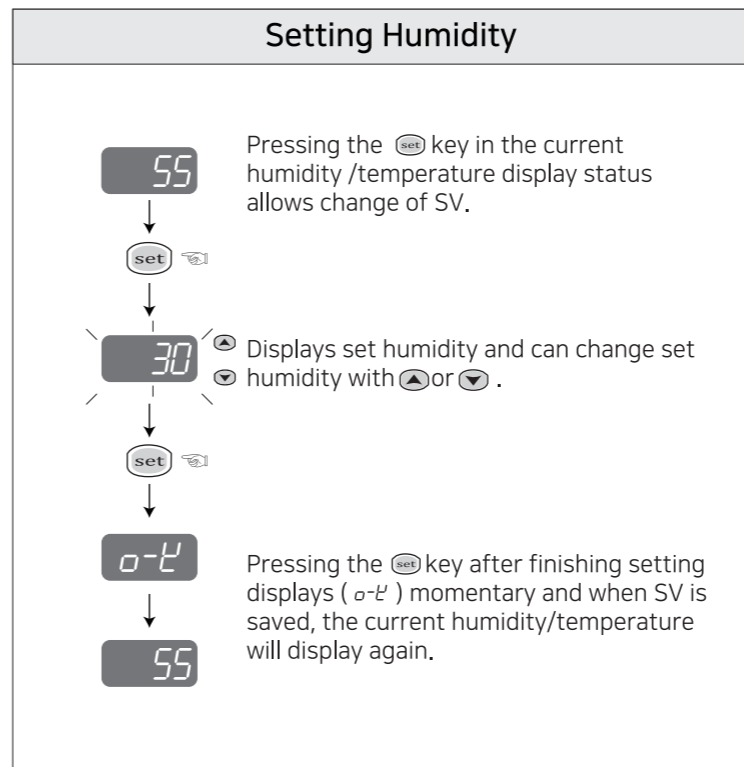
04 Terminal wiring diagram

[FOX-1H/1H-2]

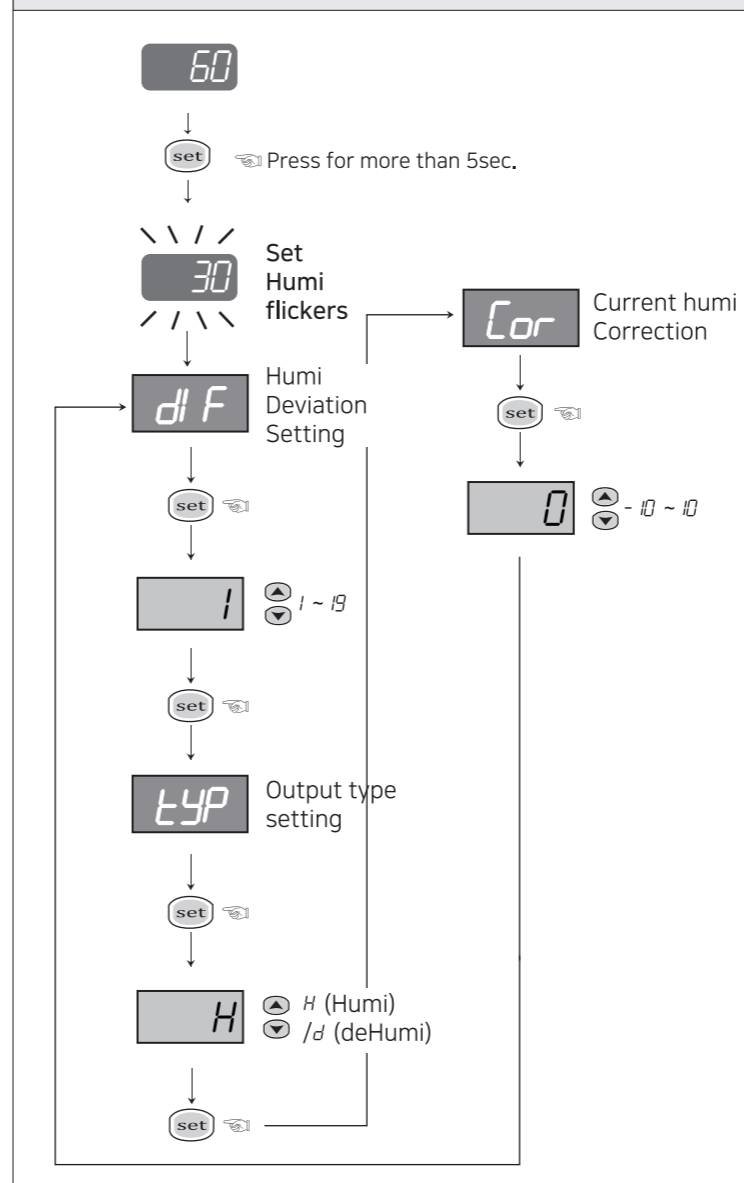


※ Caution: Since the output specification of internal relay is below 250VAC 2A, power relay or magnet must be used for exterior to use the operation machine (load).

05 Setting process



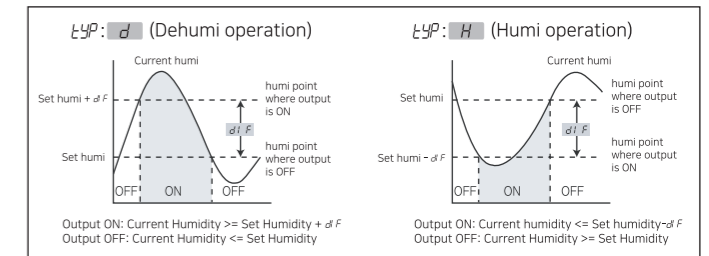
Program setting (The value of each item is the factory setting.)



06 Function details

dF : Setting for temperature deviation
- In the ON/OFF control it needs at regular interval between ON and OFF. By operating the ON/OFF control frequently, the relay or its output contact can be damaged quickly and it also occurs the hunting (oscillation, chattering) by virtue of external noise. You can make use of the temperature deviation in order to protect its relay or contact and so on.

LYP : Selection of Main output function
- Select Dehumi (d) and Humi (H) Features



Cor : The current humidity calibration
- The function calibrates the current humidity to be consistent with the actual humidity if the humidity shown in the display window and the actual humidity are different despite the product has no problem.

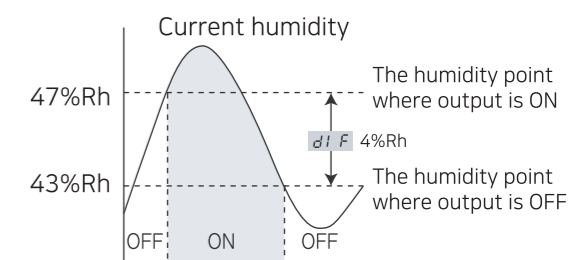
EX) Actual Humidity: 55% Rh, Current Humidity: Suppose the Cor value is set -2 when 57% Rh, the current humidity will be displayed at 55% Rh.

⚠ Caution : The performance of the actual humidity is verified. Please use calibrated equipment for calculation. Calibration based on humidity calculated with incorrect equipment may cause product malfunction.

07 Examples of the use of the humidity controller

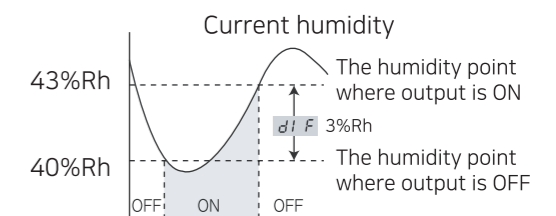
[What are the setting temperature and the program value to turn off the dehumidifier at 43% Rh and operate at 47% Rh?]

User set humidity change : 43%Rh Program Settings **LYP: d dF: 4%Rh**



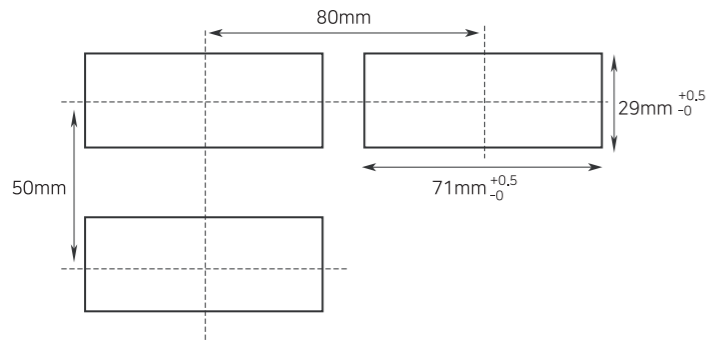
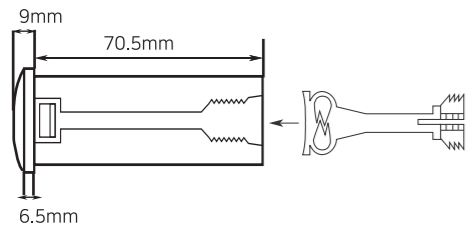
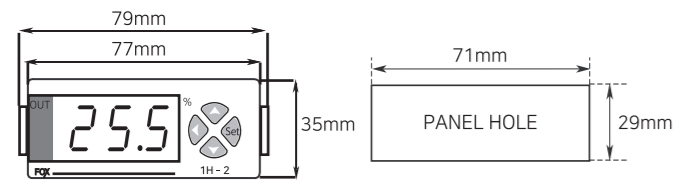
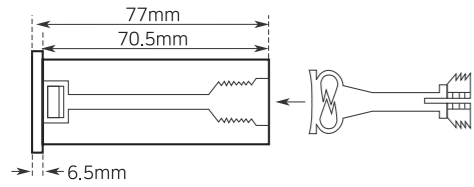
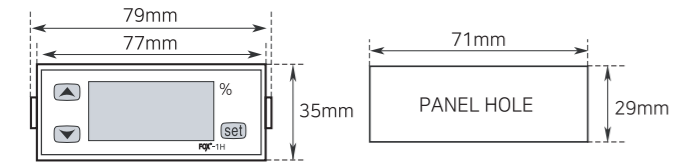
[What are the setting temperature and the program value to turn off the humidifier at 43% Rh and operate at 40% Rh?]

User set humidity change : 43%Rh Program Settings **LYP: d dF: 3%Rh**



08 Dimension and panel hole sizes

(Unit : mm / error : ±0.5)



09 Easy error diagnosis instructions

※ If an error is displayed while the product is running

- **E-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.
- **O-E** display means communication defect with the sensor. Please check connection, wire short, and connection order to the sensor. If the problem persists, please contact our customer service department.
- **L-E** or **H-E** is shown when humidity display has exceeded the range. If the error is displayed despite maintaining normal surrounding humidity, please contact our customer service department.

※ The above specifications may be changed without any notice 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, Jangsan-eup, Gijang-gun, Busan, ROK
(Land-lot address) 901-1, Ballyong-ri, Jangsan-eup, Gijang-gun, Busan, ROK (46034)

- Product service : 070-7815-8289
- Customer service : 051-819-0425 ~ 0427
- FAX : 051-819-4562
- Email : overseas-sales@conotec.co.kr
- SNS : Facebook, Instagram, Twitter, YouTube ▶ 'Search for 'Conotec'
- Website : www.conotec.co.kr

◆ Installation precautions

- This device should 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
- Counter and timer controller
- Current and voltage panel meter
- Temperature/humidity indicator
- Oven controller
- CO2 controller
- PID controller
- Unit cooler controller
- Heat pump controller
- Chiller controller
- Thermo-hygrostat controller
- Short message alarm
- Temperature/humidity transmitter
- Smartphone app and monitoring system

※ This manual was prepared in the Naver Nanum fonts.