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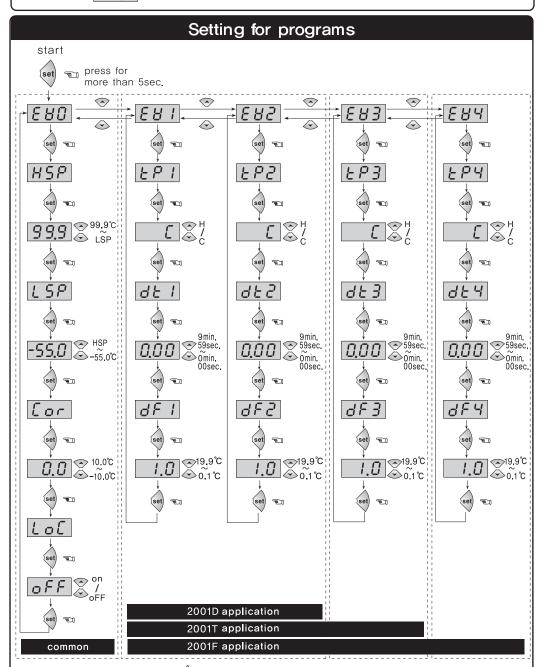






FOX-2001D, 2001T, 2001F

Setting temperature · display the present temperature application By pressing the key, the 5 ! is displayed. • Press 🗪 key to change the set value. setting temp • By pressing the set key, the 5 to is displayed. 99.9℃ • Press 🔊 key to change the set value. application • By pressing the set key, the 5£3 is displayed. **→** 99.9°C Press key to change the set value. • By pressing the (see) key, the 5 & is displayed. Press kev to change the set value. set • By pressing the (set) key after changing of the set value o-E confirm letter • The set value is saved and also the present temp. is displayed. ->setting O-K present temp.



*To change it with program mode, press the 🖦 key for more than 5second in the present temprature display mode. *The set or program mode is terminated if you press tre🥪 key for 2scord, parameters set values) are saved after the display shows OK letter or neturn to present temperature automatically after 30 scord

Model	Sensor	Output	Temp. Range	Function
OX-2001D	NTC	relay (2EA)	$-55.0^{\circ}\text{C} \sim +99.9^{\circ}\text{C}$	temp. con tro
OX-2001T	NTC	relay (3EA)	$-55.0^{\circ}\text{C} \sim +99.9^{\circ}\text{C}$	temp. con tro
OX-2001F	NTC	relay	-55.0°C ~ +99.9°C	temp, con tro

* Thank you for selecting our products. Please read carefully this instruction to reduce any damages or operation mistakes.

■ Part name



OUT1 output lamp OUT2 output lamp OUT3 output lamp 4 OUT4 output lamp

5 Setting up

6 A Key for function's change 7 Setting down

■ The function of each key.

1. Set : A key to change of the programs & setting temperature.

2. A key to change of the temperature or the program's set values

■ Detailed manual

1. 5E : setting for the 1-stage temperature (application model : 2001D, 2001T, 2001F)

2. 562 : setting for the 2-stage temperature (application model: 2001D, 2001T, 2001F)

3. 5EB: setting for the 3-stage temperature (application model: 2001T, 2001F)

4. 554 : setting for the 4-stage temperature (application model: 2001F)

5. H5P : Setting function of the highest limit of temperature range (Maximum set point allowed to the end user) Impossible to set up the set value more than HSP set value

Operating Manual

ex) $H5P = 25.0^{\circ}C$ setting \Rightarrow impossible to raise the set value more than $25.0^{\circ}C$

6. L5P : Setting function of the lowest limit of temperature range(Minimum set point allowed to the end user) Impossible to set up the set value less than LSP set value

ex) L5P = 10.0°C setting \Rightarrow impossible to lower the set value less than 100°C

7. Lor: Correction of the present temperature.

- It is used for the correction of an discrepancy between the display temperature and real

ex) real temp. : 10.0°C \rightarrow [or] : 0.0 \Rightarrow -2.0 ∞ rection \rightarrow 10.0°C display

8. Lot: The lock function

- As a safety device, it is used in order not to change the set values except for the main user.

ON- setting for the lock function.

OFF- removal for the lock function

9. EPI: Selection of the Temp.1 or Cooling or Heating (application model: 2001D, 2001T, 2001F)

10 dt : Delay time of the temperature 1 output (application model : 2001 D, 2001 T, 2001 F) It is widely used as the followings

> - in case of operating the ON/OFF control very often, (Cooler, Compressor and so on)

- to protect the operation machinery when re-input of the power supply or momentary stoppage of power supply

ex) if the set value is 1.30, from a until b time -> the relay is ON in the b point after as delay as the dtl setting time (1min.30sec.).

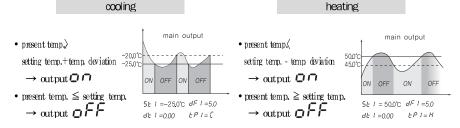
(flickering the output lamp during the dt! time)

11. df : Setting for temperature deviation (application model: 2001D, 2001T, 2001F)

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(oscillating, 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.

 $^{\Gamma}$ The method of the temp. deviation when ON/OFF control $_{\perp}$



12 EP2: Selection of the Temp2 or Cooling or Heating (application model: 2001D, 2001T, 2001F)

13 de2 : Delay time of the temperature 2 output

- Please refer to the above-mentioned no.9 (application model: 2001D, 2001T, 2001F)

14 dec : Temp. deviation of the temperature 2

- Please refer to the above-mentioned no.10 (application model: 2001D, 2001T, 2001F)

15 EP3: Selection of the Temp3 or Cooling or Heating (application model: 2001T, 2001F)

16 dt 3 : Delay time of the temperature 3 output

- Please refer to the above-mentioned no.9 (application model: 2001T, 2001F) 17. Jet : Temp. deviation of the temperature 3

- Please refer to the above-mentioned no.10 (application model: 2001T, 2001F)

18 FPH: Selection of the Temp.4 or Cooling or Heating (application model: 2001F) 19 354 : Delay time of the temperature 4 output

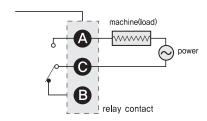
- Please refer to the above-mentioned no.9 (application model: 2001F)

20 dfy: Temp. deviation of the temperature 4 - Please refer to the above-mentioned no.10 (application model: 2001F)

■ Temp. range & set value when deliver

	Function	Display	Range	Set values when deliver	Remarks
Setting temp.	Setting temp.1	5E 1	-55.0℃~+99.9℃	10.0℃	
	Setting temp.2	5 <i>E2</i>	-55.0℃~+99.9℃	10.0℃	
Setting temp.3		5 E 3	-55.0℃~+99.9℃	10.0℃	
	Setting temp4	564	-55.0℃~+99.9℃	10.0℃	
Program Setting	Setting for the highest limit of user	H5P	L5P∼99.9℃	99.9℃	It is irrelevant to the nelay output.
	Setting for the lowest limit of user	LSP	-55.0℃~∺5₽	-55.0℃	It is irrelevant to the nelay output.
	Correction of temp.	[or	-5.0℃~+5.0℃	0.0	correct for an discrepancy between the display temp. and real temp.
	Lock function	LoE	on/of	oF	of setting for the lock function of memoral of the box function however, exist for the setting temperature value
	Selection of the function for the temp. 1	6P 1	C/H	С	C: for cooling H: for heating
	Delay time of the output for temp. 1	dE	0.00~9.59minute	0minute	
	Temp. deviation for temp. 1	dF I	0.1℃~+199℃	1.0℃	hysteresis +
	Selection of the function for the temp.2	FP2	C/H	С	C: for cooling H: for heating
	Delay time of the output for temp. 2	955	0.00~9.59minute	0minute	
	Temp. deviation for temp. 2	dF∂	0.1℃~+199℃	1.0℃	hysteresis +
	Selection of the function for the temp. 3	<i>EP3</i>	C/H	C	C: for cooling H: for heating
	Delay time of the output for temp. 3	d E 3	0.00~9.59minute	0minute	
	Temp. deviation for temp. 3	dF3	0.1℃~+199℃	1.0℃	hysteresis +
	Selection of the function for the temp.4	EPY	C/H	C	C: for cooling H: for heating
	Delay time of the output for temp. 4	964	0.00~9.59minute	0minute	
	Temp. deviation for temp. 4	dFY	0.1℃~+199℃	1.0℃	hysteresis +

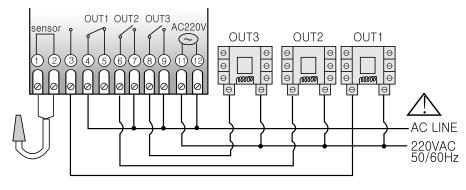
■ Relay junction



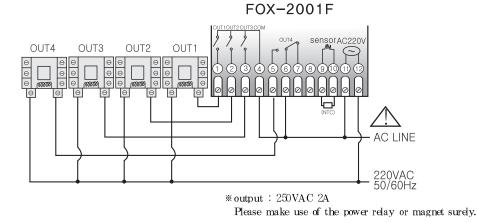
■ Connection

• FOX-2001D, 2001T

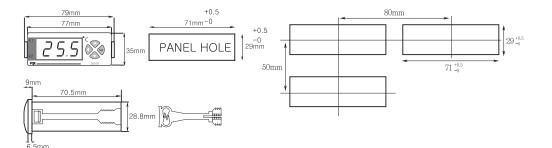




• FOX-2001F



■ Dimension



■ Caution for your safety

Pls use this item after installing the duplex safety device in which is applied at dangerous factors such as serious human injury or serious damages of property & important machine because this item is not designed as safety device

- Please read the operating manual through completely before putting the device into operation.
- We will not assume any responsibility for damage to assets or persons caused by improper handling or failure to observe the safety instructions or hazard warnings,
- For safety and licensing reasons, unauthorized conversion and/or modification of the device is not permitted.
- Do not exceed the maximum permissible current in case of higher loads, use a contactor of
 adequate power. Make sure that the supplied voltage matches the values specified for the
 instrument,
- The device must be a dequately protected from water and dust as per the application and must be accessible via the use of appropriate tools
- The device must not be exposed to extreme temperature, sunlight, strong vibrations or high levels of humidity.
- Operation or installation is not permitted under unfavorable ambient conditions such as wetness or excessive induction loads or solenoid and dust, combustible gases, vapors or solvents, especially high-frequency noise
- Avoid operation or installation close to high-frequency fields such as welding devices, sewing machines, wireless transmitter, radio systems, SCR controller, et c
- Do not install the sensor cable nearby signal cable, power cable, load cable
- Please use the shield cable when the sensor cable's lengthen, however do not make it too
 much longer
- Please use the sensor cable without any cutting or flaw, blemish.
- The device is not a toy and should be kept away from children
- Installation work must only be carried out by suitably qualified personnel who are familiar with the hazards involved and with the relevant regulations,
- You shouldn't tinker with anything or the product may not be opened or disassembled unless
 you know what you're doing. Please ask us about this questioning

<u></u> ∆ Danger

Attention! Never work on electrical connections when the machine is switched on

Error message

- Er: Memory error. Turn the power off and turn it on again
 If the error message persists, please request us A/S by return
- o-E Sensor error. The sensor is interrupted. Check the cable.

2001D

• 5-E Sensor error. The sensor is short-circuited. Check the cable

■ The terms of guarantee: within 18months after shipment date.

2001T

■ Model & output spec.

2001

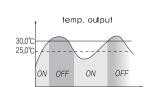
	(Sensor · IEA)	(Sensor · IEA)	(Sensor · IEA)	(Sensor · IEA)	(Sensor · IEA)			
temp. output	one-stage output	two-stage output	three-stage output	four-stage output	control by the temperature & time (for greenhouses)			
	2001 (sensor : 1EA)	2002 (sensor : 1EA)	2003, 2003S (sensor : 1EA)	2004 (sensor : 2EA)	2005 (sensor : 2EA)	2006 (sensor : 2EA)		
temp. output	0	0	0	0	0	temp.1	temp.2	
alarm output	-	0	-	-	0	alarm1	alarm2	
defrost output	-	-	0	0	0	_		

2001F

■ ex) application

FAN output

• ex) Heater -> turn off at 30.0°C, turn on at 25.0°C => How to operate(setting for the temperature & programs)?



(setting temp.) (see the setting temperature) 5 to 1: 30.0 $^{\circ}\mathrm{C}$

2000TT

 $\langle setting\ program \rangle$ (see the setting for program) <code>EPI</code> : <code>H</code>

dF : 5.0 (on/off interval => 5.0°C)

• Cooler -> turn off at 0.0°C, turn on at 2.0°C => How to operate(setting for the temperature & programs)?



 $dF : 20 \text{ (on/off interval} =)2.0 ^{\circ}\text{C}$

*The product's specification can be changed without any notification to improve its quality.

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**This device works proper operation with; Surrounding Temp. : 0°C~60°C Surrounding Humi. : below 80%RH Regular power : 220VAC±10% 50/60Hz