Version 1.2

ISO 9001:2008

CONOTEC®

CONOTEC CO., LTD.

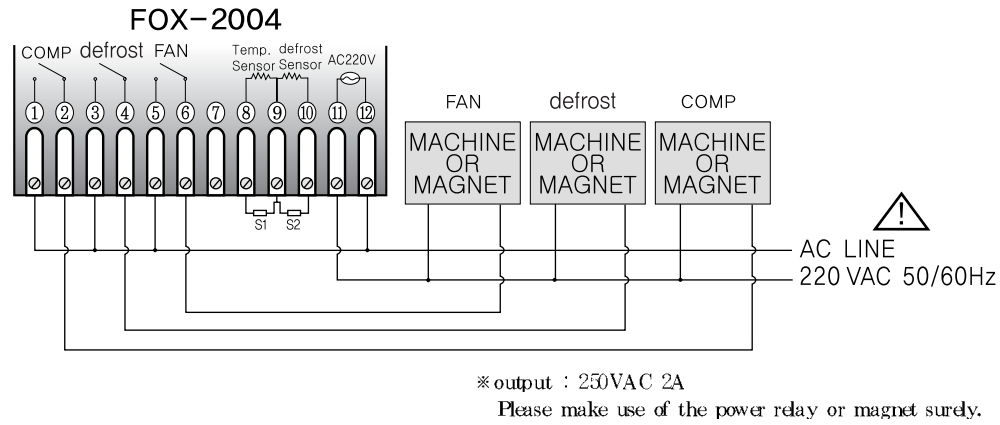
Digital Temperature Controller

FOX-2004

Operating Manual

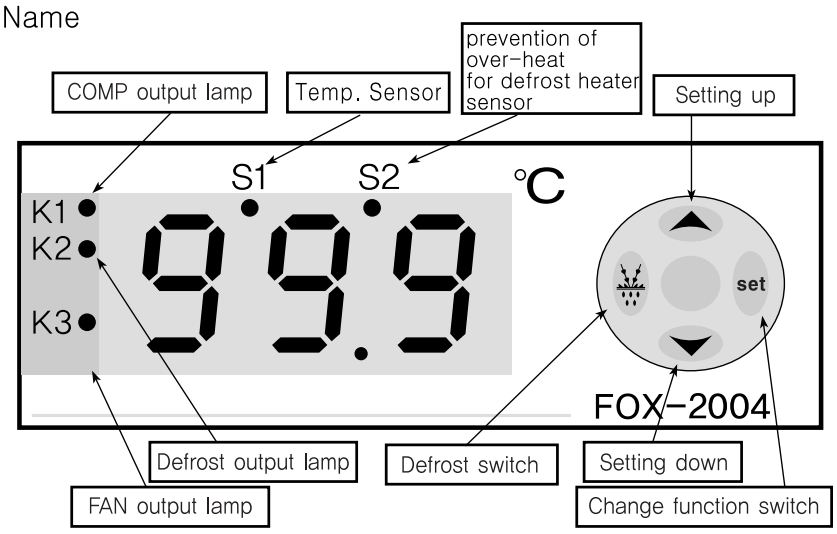
Model	Sensor	Temp. range	Function
FOX-2004	NTC : 2EA	-55.0℃ ~ +99.9℃	COMP control Defrost control FAN control

■ Connection



※output : 250VAC 2A
Please make use of the power relay or magnet surely.

■ Part Name



■ Change of User Mode

When (set) key is pushed, setting temperature is flicked.
Push ▲▼ key to change the setting value.
If (set) key is pushed again, o-k letter is indicated and setting temperature is remembered.

■ Setting for Installer Mode Function

If (set) key is pushed over 5 second, EU1 or EU2 or EU3 letter is indicated and push ▲▼ key to change the EU1 EU2 EU3

As EU1 is indicated, set in the following order:
HSP(setting for the highest limit of use) -> LSP(setting for the lowest limit of use) -> DIS (selection of the deviation style) -> DIF(temperature deviation) -> DLT(delay time) -> COR (correction of temp) -> SER(sensor's error) -> DSP(display of sensor option) -> LOCK (lock funcktion : ON - setting for the lock function, OF - removal of the lock function)

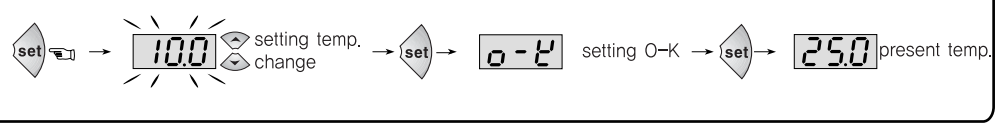
As EU2 is indicated, set in the following order:
D.DE(defrost off(stop) temperature temporarily-> D.OR(correction of temperature for defrost sensor) -> D.TP(selection of the COMP while defrosting : ON-COMP ON while defrosting,OF-COMP OFF while defrosting) -> D.OF(defrost stop time) -> D.ON(defrost time) -> D.DT(delay time of the COMP after defrosting) -> D.ST(delay time of operating for defrost)

As EU3 is indicated, set in the following order:
F.ST(FAN setting) -> F.DT(delay time of the FAN ON after)

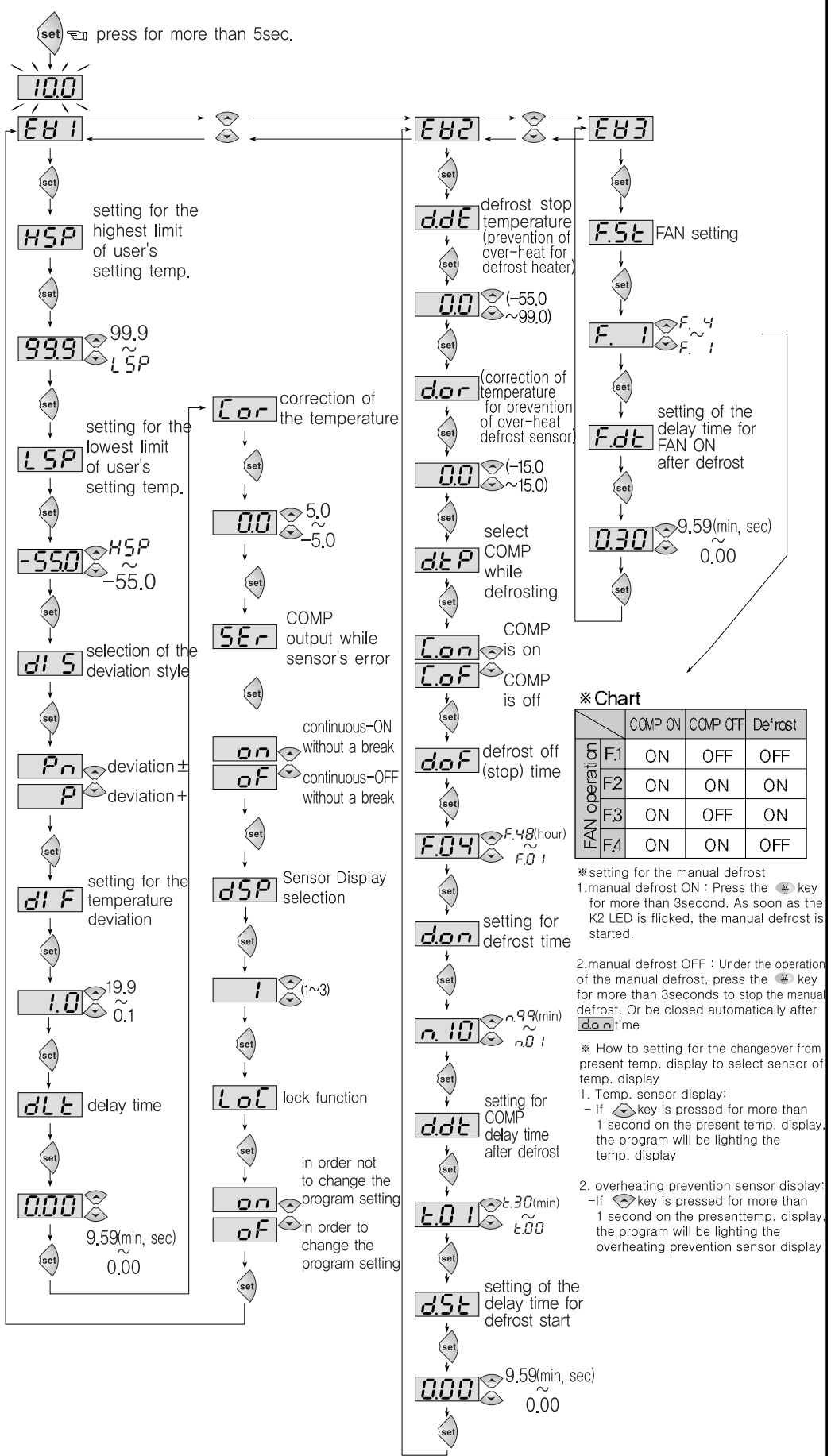
and setting value each mode should changed by pressing ▲▼ key and then press (set) key to next mode.

		Function	Display	Range	Set values when deliver	Remarks
Setting temp.		Setting temp.		-55.0~99.9	10.0	
Program Setting	EU1	Setting for the highest limit of user	HSP	LSP~99.9	99.9	
		Setting for the lowest limit of user	LSP	-55.0~HSP	-55.0	
		Selection of the deviation style	dIS	P/PN	P	PN - deviation± P - deviation-
		Temperature deviation	dIF	0.1~19.9	1.0	
		Delay time	dLt	0.00~9.59	0.00	(minute. second)
		Correction of temp.	Cor	-15.0~15.0		correct for an discrepancy between the display temp. and real temp.
		Sensor's error	SEr	ON/OF	OF	ON - RY1 ON OF - RY1 OFF
		Display of sensor option	dSP	1~3	1	1. Temp. sensor display 2. defrosting sensor display 3. 1 and 2 repeat display at 2 second
		Lock functionon	LoC	ON/OFF	OF	ON - setting for the lock function OFF - removal of the lock function
	EU2	Defrost stop temp.	d.dE	-55.0~99.0	0.0	prevention of over-heat for defrost heater
		Correction of temperature for defrost sensor	d.or	-15.0~15.0	0.0	
		when defrost, select COMP	d.tP	C.ON/C.OF	C.OF	C.ON - COMP ON while defrosting C.OF - COMP OFF while defrosting
		Defrost stop time	d.oF	F.01 ~F.48	F.04	hour
		Defrost time	d.on	n.01~99	n.10	minute
		Delay time of the COMP after defrosting	d.dt	00 ~30	t.01	minute
		Delay time of operating for defrosting	d.St	0.00~9.59	0.00	(minute. second)
	EU3	FAN setting	F.St	F.1 ~F.4	F.1	※Refer to the Chart
		Delay time of the FAN ON after defrosting	F.dt	0.00~9.59	0.30	(minute. second) ※Delay time of the COMP after defrosting

Setting temperature



Setting for programs



※Chart

		COMP ON	COMP OFF	Defrost
FAN operation	F.1	ON	OFF	OFF
	F.2	ON	ON	ON
	F.3	ON	OFF	ON
	F.4	ON	ON	OFF

※setting for the manual defrost
1.manual defrost ON : Press the ✱ key for more than 3second. As soon as the K2 LED is flicked, the manual defrost is started.

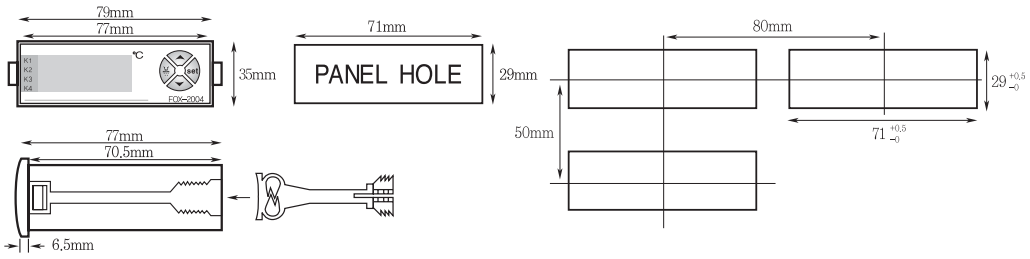
2.manual defrost OFF : Under the operation of the manual defrost, press the ✱ key for more than 3seconds to stop the manual defrost. Or be closed automatically after d.on time

※ How to setting for the changeover from present temp. display to select sensor of temp. display
1. Temp. sensor display:
- If ▲▼ key is pressed for more than 1 second on the present temp. display, the program will be lighting the temp. display

2. overheating prevention sensor display:
-If ▲▼ key is pressed for more than 1 second on the presenttemp. display, the program will be lighting the overheating prevention sensor display

※ The set or programming mode is terminated , if you press the (set) key for 2 second, parameters(set values) are saved after the display shows OK letter or return to present temperature automatically after 10 second.

■ Size & Dimension



■ CAUTION

⚠ Warning

Pls use this item after set up safety device doubly in which is applied at dangerous equipment such as serious human injury or serious damages of property & important machine because this item is not designed as safety device.

⚠ Caution

- Do not distributing wires or install the device for the occurrence of an induction load of motor, solenoid.
- Please use shield wire when sensor lengthen, however, do not make it too much longer.
- Please do not use the components which is occurring arks when on/off near it or same power.
- Power cable keeps away from high-voltage cable and do not install the device where water, on and dust.
- Do not install the device from direct rays of the sun & exposed a site due to rain.
- Do not install the device from strong magnet & noise, vibration or shock.
- Please install the device from a great distance out of places occurring strong-alkali or strong-acidity.
- Do not sprinkle water for clean purpose when installing in the kitchen.
- Do not install the device from the places where Temp./Humi. exceed regular power.
- Please use the sensor wire without any cutting & flawing.
- Do not install the sensor wire nearby signal wire, power or load and please use self-pipe.
- Please understand you can't get any A/S service when you open or re-model it with free.
- ⚠ is the safety letter like warning, caution.
- Please do not use the device close by which occurring strong high-frequency noise (high-frequency: welding, sewing machine, wireless transmitter, SCR controller for high capacity)
- Please use this item proper method without any damage or injury.

⚠ Danger

■ Caution, Danger of electric shok

- Electric shork - Do not touch AC board during on power because of electric shork.
- Please intercept input power surely when input power check.

The way of diagnosis for breakdown

■ Indicating ERROR on using items

- This `Er1` is the damage of memory data for various of inner-data due to be get noised strongly from outside while using this items. Please request us A/S by return. Althought our controller is designed as the complementary measures regarding these noise from outside, it is not endurable against these noise with endlessly.

  If noise (2kv) disordering become an inflow, the inner-part will be damaged
- `oE1` => Display of an open error for temperature sensor.
- `oE2` => Display of an open error for defrost sensor.
- `SE1` => Display of an short error for temperature sensor.
- `SE2` => Display of an short error for defrost sensor.
- `HH1` => Temperature sensor : error display -> exceeed the limit for temperature display.
- `HH2` => Defrost sensor : error display -> exceeed the limit for temperature display.
- `LL1` => Temperature sensor : error display -> below the limit for temperature display.
- `LL2` => Defrost sensor : error display -> below the limit for temperature display.

※Above Products information can be changed to improve it's quality without any notification
When this products use, pls observe the information of caution & Warning due to give rise to disordering.

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This device works proper operation with;
Ambient temp. : 0°C~60°C
Ambient humi. : below 80%RH
Regular power : 220VAC

MEMO