

CONOTEC

CONOTEC CO., LTD.

FOX-2121

MULTI DISPLAY

www.conotec.co.kr

Instruction manual



Thank you for purchasing the product of CONOTEC

1 Caution for your safety

Please read the caution thoroughly for your safety and to properly use our product.

※ The specifications and sizes specified in this instruction manual can be changed without previous notice for the sake of improving functions of the product.



Warning

- This product is not manufactured as a safety equipment.
So, if you want to use it to control equipments that could cause lethal incident, damage on important peripheral device, or enormous damage on personal property, please attach double safety gears on it.
- Please do not perform wiring, examination or maintenance repairing while the power is on.
- Please check the terminal number when connecting it to the power.
- This product must not be disassembled, processed, improved, nor repaired.



Caution

- * Please read thoroughly the instruction, safety regulations and warnings before installing this device. Moreover, please use this product within the boundary of regulated specifications and capacity.
- * Please do not wire or install the product on a motor or solenoid whose inductive load is huge.
- * Please use the same cable for sensor extension and do not overly extend the sensor.
- * Please do not use components that generate an electric arc when opening and closing the product on the same power source or near the source.
- * Please stay the power line away from the high tension line. Also, please do not install it at a place with a high amount of water, oil or dust.
- * Please do not install the device in a place where the device can be exposed to direct sunlight or rain water.
- * Please do not install the device in a place with strong magnetic forces, noise, vibration or shock.
- * Please stay the device away from a place with strong alkali or strong acid.
- * Please do not directly spray water on the device for cleansing if the device is installed at a kitchen.
- * Please do not install the device in a place where temperature and humidity exceed the rating.
- * Please do not let the sensor line be cut or cracked.
- * Please place the sensor line away from the signal line, power supply, power and load line and use an independent pipe.
- * Please note that if the device is arbitrarily disassembled, the after-service is not provided.
- * The mark on the terminal wiring diagram refers to warning or caution.
- * Please do not use the product near devices generating a high frequency noise such as high frequency welding machine, high frequency sewing machine, high frequency wireless set or bulk distribution SCR controller.
- * Any use beyond the usage boundary set by the manufacture can cause injury or property loss.
- * Since this device is not a toy, please put it away from kids.
- * The installation of the product must be done by a specialist or a qualified person.
- * If you do not abide by the warnings, caution or statements above or cause any damage or loss with your own mistake, we do not take responsibility for any of them.



Danger

■ Caution, Danger of an electric shock

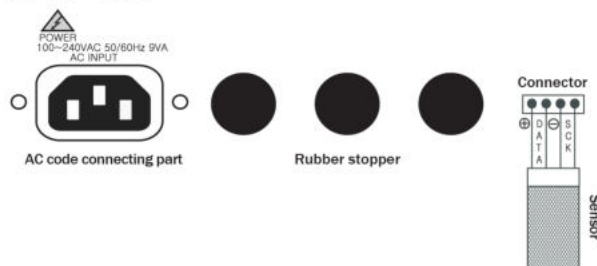
- * Electric shock – Please do not contact AC terminal while the electric current is being carried. You may be under the electric shock.
- * Please be sure to block the input power supply when you check the input power.

2 Model Specification

Model	Sensor	Scope of Temperature / Humidity	External size	Function
FOX-2121	SHT11	-20.0℃ ~ 95.0℃ 0%RH ~ 100%RH	W193.5 X H241mm	Express Temperature/Humidity /Clock/Date Adjust brightness in line with amount of the sun

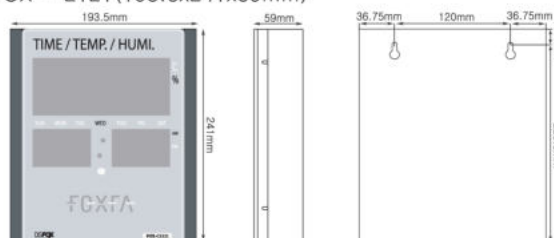
3 Terminal Connection Wiring Diagram

▶ FOX - 2121



4 External specifications and panel processing size

▶ FOX - 2121 (193.5x241x59mm)



5 Set value of temperature/humidity scope in release

	Function	Expression	Range	Set value in release	Remarks
Set Temperature / Humidity	Calibrate temperature	Co1	+10~-10	0.0	Calibrate the value between expressed temperature and actual temperature
	Calibrate humidity	Co2	+9.9~-9.9	0	Calibrate the value between expressed humidity and actual humidity

※ Current year, month, date, time and day of the week will be set and released.

6 Detailed explanation on functions

1. ds : Set type of expressing temperature and humidity

- Function of expressing temperature and humidity after a user chooses a type
- **EH** Function of crossly expressing temperature and humidity
- **E** function of expressing temperature only
- **H** function of expressing humidity only

2. **Co1** : Function of calibrating current temperature
- Function that calibrates the difference from standard temperature (Ex. Mercury thermometer, a thermometer used in the past and thermostat) or errors occurred in the sensor inputted from outside while there is no problem in the product itself

Ex. Actual temperature: 10.0℃
Expressing screen: 12.0℃ -> **Co1** : Calibrate 0.0 to 2.0
-> Express temperature as 10.0℃ (calibrated current temperature)

3. **Co2** : Function of calibrating current humidity
- Function that calibrates the difference from standard humidity (Ex. Hygrometer used in the past and humidistat) or errors occurred in the sensor inputted from outside while there is no problem in the product itself

Ex. Actual humidity : 30%
Expressing screen : 32% -> **Co2** : Calibrate 0 to 2
-> Express humidity as 32% (calibrated current humidity)

7 Error Diagnosis

■ In case of displaying ERROR in using the product

- **Er1** When displaying Er1 in using the product, it means that the memory inside of the system causes damage in memory of various DATA due to strong external noise. In that case, make an inquiry for After Service.
This controller has complementary measures against external noise.
However, it does not weather noise unlimitedly. The inside can be damaged if the product is exposed to more than 2KV noise.
- **O-E** (open error), **S-E** (short error) When displaying open error or short error, the sensor has a problem. Please check the sensor.

※ The specifications can be changed without pre-notification for improvements of the product.
Please read this instruction manual thoroughly and abide it surely.

※ Regarding the English-language manual, please download it at our home page.

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Cautions in installation

- Warning : This equipment shall be connected with protective ground and power supply to be free from the electric shock.
- Do not block the ducts

Cautions in using the product

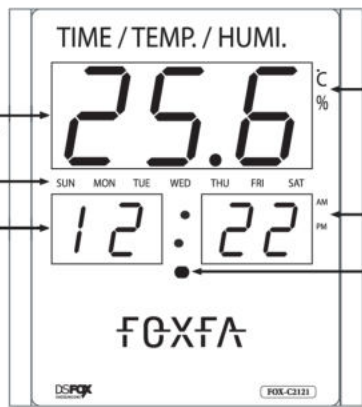
- This product is suitable to the following environment
- Installation Category II
- Surrounding Temperature : 0℃~60℃ - This equipment shall be placed in which the power code operation is convenient.
- Surrounding Humidity: Under 80% RH - The equipment can be damaged when using it in a way other than this manual instruction.
- Only for indoor use
- Pollution Degree 2
- Under 2000m altitude - Rated power: 100~240 Vac, 50/60Hz gVA

Main products and developments

- Digital Temperature/Humidity Controller
- Digital Timer, Current/Voltage Meta
- Other products

Explanation on Display

- 1 Express current temperature and humidity
- 2 Express current date
- 3 Time Display Unit (current time)



- 6 Express temperature and humidity
- 5 Express PM/AM
- 4 Illumination sensor

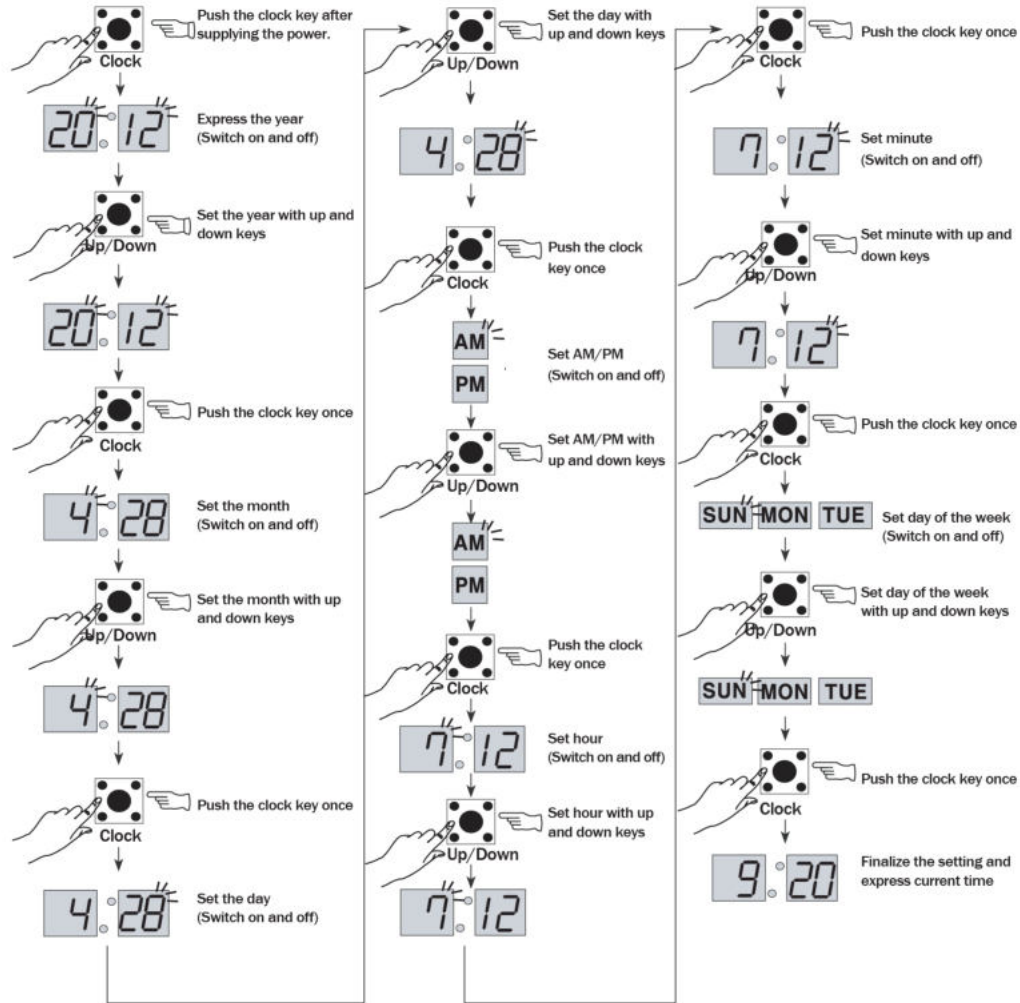
Explanation of internal switch of the case



- 7 Clock -> Time setting switch
- 8 Temperature/Humidity -> Temperature/Humidity setting switch
- 9 Up -> Switch to up
- 10 Down -> Switch to down

Program setting process (Year, Date, Time, Day of the week)

*Setting order : Year -> Month and Day -> PM, AM -> Hour, Minute -> Day of the week



Temperature/Humidity program setting process

