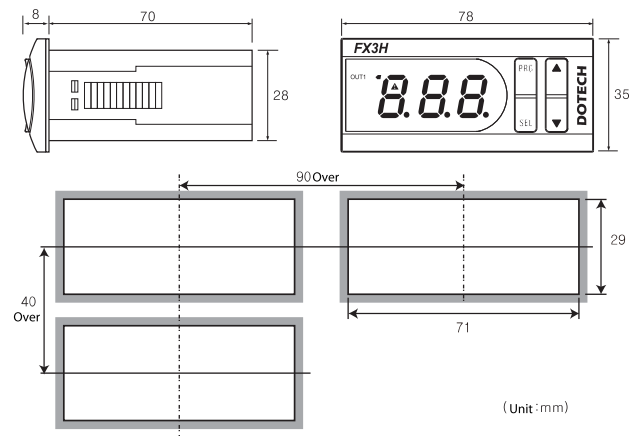


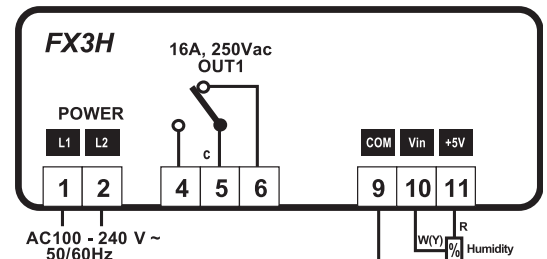
Digital Humidity Controller (FX3H SERIES)



■ Dimensions and Panel Cut-Out Form



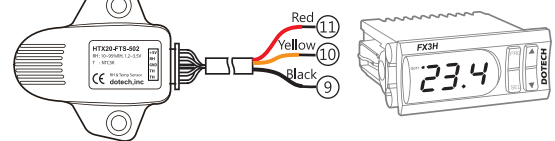
■ Connection Diagram



- OUT1 : Dehumidification/Humidification#1 ON/OFF output
- COM : Signal input common terminal
- Vin : Humidity sensor input
- +5V : Humidity sensor power (5Vdc)

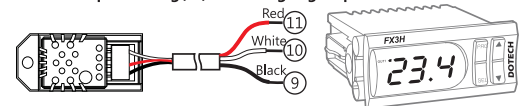
■ When it use for Humidity control (Apply HTX20-FTS-502 Humidity sensor)

※ Set sensor input setting (I/n) of setting 2 group to H.

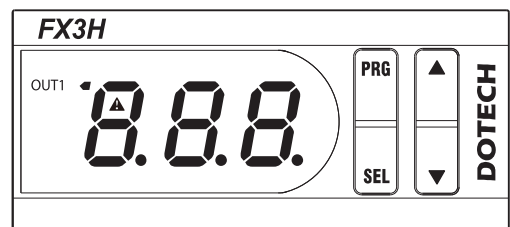


■ When it use for Humidity control (Apply HTX3515 Humidity sensor)

※ Set sensor input setting (I/n) of setting 2 group to H.



■ Constitution (Function of Display Lamp and Button)



OUT1	Turn on when output #1 is ON (Flickering at standby)
▲	ON at trip, Flickering at alarm

PRG	Use at program setup	SEL	Execute selected menu or Input setup value
▲	Move between menus & Increase setup value	▼	Move between menus & Decrease setup value
PRG ▼	Initializing setup value If pushing for 10 sec. at the same time , setup value is initialized		

▲ PreCaution for Use

1. This product may cause an electric shock in handling. Please do not attempt to open it with power turned on.
 2. This product should be installed in a place fixed secured by a rack or panel.
 3. This product can be used under the following environmental condition
 - ① Indoor ② Pollution Degree ③ At an altitude of 2000m or below ④ Installation Category II
 4. To turn on or turn off power supply for this product, please the circuit breaker or switch of a standard product of IEC 60947-1 or IEC 60947-3 product and install it within a close distance allowing convenient operation by user.
 5. Please be understood that if this product is dismantled or modified discretionary, after sales service will not be able to be provided.
 6. An output wire to be used for this product should be inflammable grade FV1 (V-1 grade or above), the thickness of the wire should be AWG No. 20 or above. (0.50mm)
 7. In order to prevent it from an inductive noise, please maintain the high-voltage wire and power wire separated.
 8. Please avoid installing the product in a place where a strong magnetism, noise, severe vibration and impact exist.
 9. When extending the sensor wire, use a shield wire and do not extend it unnecessary long.
 10. The sensor wire and signal wire should be away from the power and load wires using conduits separately installed.
 11. Please avoid using the product near a device generating strong high frequency noise (high-frequency welding machine, high-frequency sewing machine, high-frequency radiotelegraph, high capacity SCR controller)
 12. Product's damages other than those described in the guarantee conditions provided by the manufacturer shall not be responsible by us.
 13. Please use with being attached to a dual safety device in case of using for controlling instruments which could be effective to human life or property (eg: controlling atomic energy, medical instruments, cars, trains, flights, burners, amusement instruments or safety machinery)
- ※ The Aforementioned precautions must be observed, and if you fail to do so, it may cause a product's breakdown.

■ Basic Specification

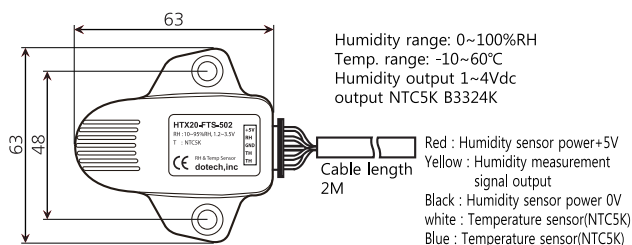
Model	FX3H
Power	AC100 - 240V ~, 50/60Hz
Current	MAX 4VA
Connector	Screw Bolt Connector (1.5mm ² Wire Use Possibility)
Input / Output	Relay output 1p (OUT1 : 250Vac/16A) Humidity 1~4V Voltage input 1p.
Operation	Temp. -10~50°C (No condensation only)
Storage	Temp. -20~60°C, Humidity Under 90%RH
Sensor	HTX20-FTS-502 (Humidity sensor of Voltage output type), HTX3515
Display Range	0.0 ~ 100.0%RH

■ Order Information

FX3H - 00 : Basic Model

■ Accessory Information

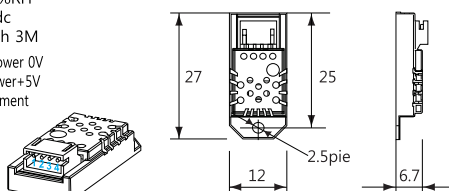
HTX20-FTS-502 Temp.& Humidity sensor (Humidity output 1~4V, Temp. output NTC5K)



HTX3515 Humidity sensor (Humidity output 1~4V)

Humidity range: 0~100%RH
Humidity output 1~4Vdc
Connection Cable length 3M

- 1: Black : Humidity sensor power 0V
- 2: Red : Humidity sensor power+5V
- 4: White : Humidity measurement signal output



Simple Trouble Check Point

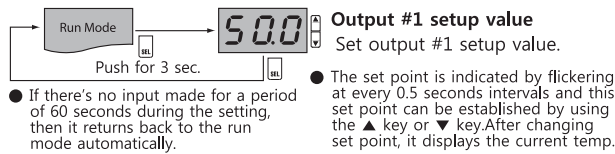
※ FX3H controls by measured value which is detected by sensor.

If sensor fault alarm occurred as following, please check wiring with sensor.

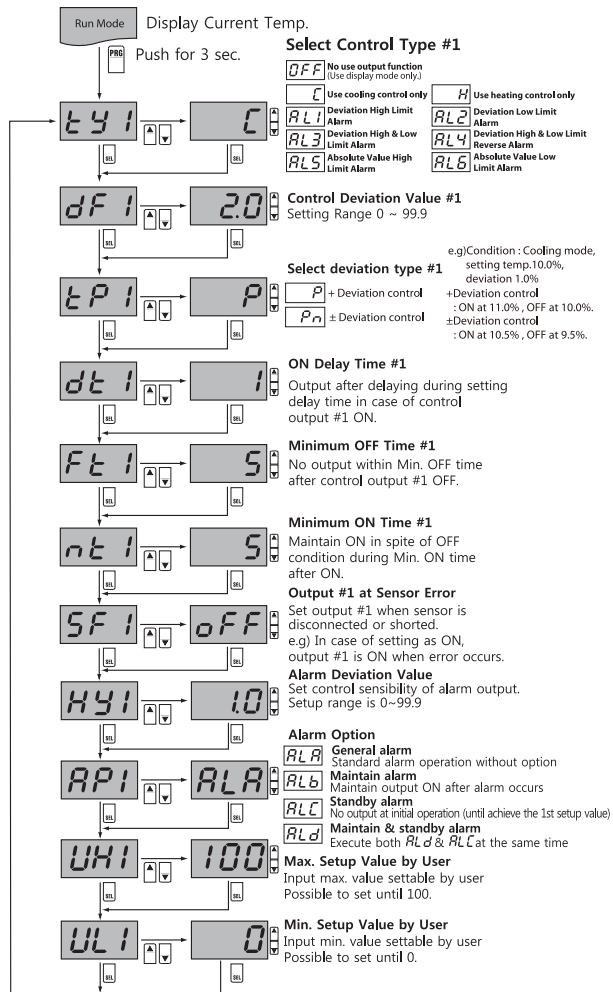
HoP	Humidity Sensor Open Wire	HLL	Minimum range for Humidity use
HSE	Humidity Sensor Short Circuit	HHH	Maximum range for Humidity use
SSS	If the stored value is changed randomly, please re-setup after parameter initialization.		

※ In case of the above-mentioned error, it will be normally operated with cancelling error status if the reason of error is solved.

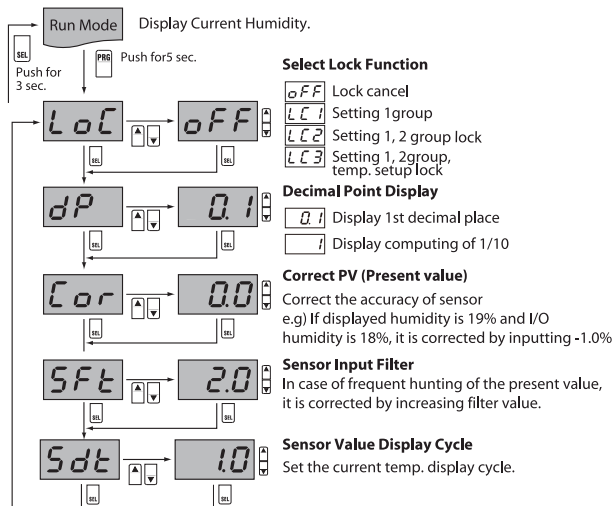
Temperature Setting Group



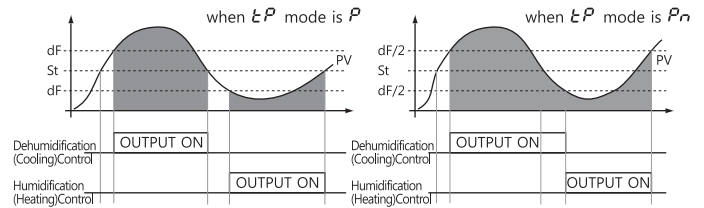
Setting 1 Group



Setting 2 Group



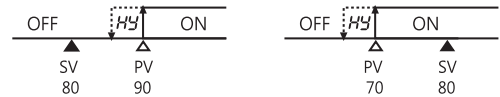
Deviation Control (L - Dehumidification, H-Humidification)



Alarm Operation Group

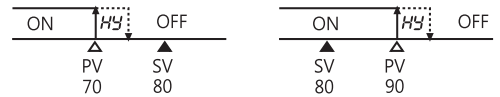
* SV: 5t1 * df: df1 * HY: HY1

AL-1 Deviation High Limit Alarm



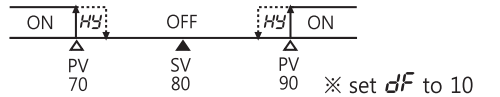
※ set df to 10
Output is ON when the deviation between PV value and SV value is higher than setup value of control deviation

AL-2 Deviation Low Limit Alarm



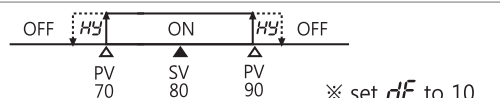
※ set df to 10
Output is ON when the deviation between PV value and SV value is lower than setup value of control deviation.

AL-3 Deviation High & Low Limit Alarm



※ set df to 10
Output is ON when the deviation between PV value and SV value is higher or lower than setup value of control deviation. Control deviation is set up at df in setting 1 group. If df value ≤ 0, it is always OFF.

AL-4 Deviation High & Low Limit Reverse Alarm



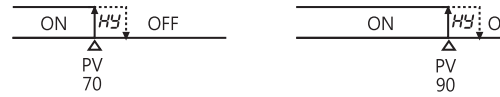
※ set df to 10
Output is OFF when the deviation between PV value and SV value is higher or lower than setup value of control deviation. Control deviation is set up at df in setting 1 group. If df value ≤ 0, it is always OFF.

AL-5 Absolute Value High Limit Alarm



※ set df to 70
Output is ON when PV value is higher than or equal as control deviation setup value. Alarm temperature is set up at df in setting 1 group. It works regardless of SV(set value).

AL-6 Absolute Value Low Limit Alarm



※ set df to 70
Output is ON when PV value is lower than or equal as control deviation setup value. Alarm temperature is set up at df in setting 1 group. It works regardless of SV(set value).

Alarm Option Group

CODE	OPERATION TITLE	DESCRIPTION FOR ALARM OPTION OPERATION
ALA	General alarm	Standard alarm operation without option
ALb	Maintain alarm	Maintain output ON after alarm occurs
ALc	Standby alarm	No output at initial operation (until achieve the 1st setup value)
ALd	Maintain & standby alarm	Execute both ALb & ALc at the same time

※ Reboot or push PRG button in 2 successive time when alarm output is removed.