

Instruction Manual

for FC-H1 Humidity Controller



I 、 Technical specification:

- 1-1、 Input type: high molecule
- 1-2、 Measuring range: 0~99%RH
- 1-3、 Display accuracy: $\pm 1\%F.S \pm 1B$ Sensor accuracy: $\pm 3\%F.S \pm 1B$
- 1-4、 Relay contact capacity: 5A 250V AC (Resistance load)
- 1-5、 Control mode: ON/OFF (adjustable control of return difference)
- 1-6、 External dimensions (mm): 77(W)×35(H)×76(D);
hole dimensions (mm): 71(W)×29(H)
- 1-7、 Working power: DC 12V or AC85V-242V, 50/60HZ
- 1-8、 Working environment: temperature -20~50℃, relative humidity $\leq 85\%RH$, without corrode and strong electric radiation.

II 、 The panel illustration (consult):



- (1) , Function key: Press the key for 3 seconds to enter the setting state of parameter.
- (2)、 Output indicator: When the relay of controller is closed, the indicator lights on;
- (3)、 Measured value display window: Under the normal state, it displays humidity measured value; Under the setting state of parameters , it displays parameters code and parameters value.
- (4)、 Data increasing key: Under the setting state of parameters, press the key to increase the data;
- (5)、 Data decreasing key: Under the setting state of parameters, press the key to reduce the data.

III、The inner parameters:

NO.	Code	Name	Range	Note	Factory setting
1	<i>Loc</i>	Electronics lock	0~50	When <i>Loc</i> =18, all parameters can be revised; When <i>Loc</i> ≠18, all parameters can not be revised.	18
2	<i>SP</i>	Humidity setting value	0~99	Please refer to "V、Controller output"	60
3	<i>HY</i>	Control of Return difference	1~50		2
4	<i>SC</i>	Sensor error correction	-20~20	When there is error between the display value and the actual value, it is used to make correction.	0
5	<i>COL</i>	Load selection	• or <i>OFF</i>	• : the load is dehumidifying equipment. <i>OFF</i> : the load is humidifying equipment.	<i>ON</i>

IV、The operation illustration:

4-1、Powering on after connecting the controller correctly to according to the connection scheme, the controller starts testing itself for 1 second, then, it displays measured humidity value.

4-2、Controller' setting: Keep pressing SET key for 3 seconds to enter the setting state of parameters, the controller will display parameter code, press ▲ or ▼ key to display and modify the parameter value, after finishing modifying, press SET key to save the setting and enter the next parameter setting state. If there is any operation for 10 seconds during the setting, the controller will save and exit the setting state of parameters automatically.

V、Controller Output:

5-1、When *COL* = *OFF*:

When the humidity measured value ≤ Humidity setting value (*SP*) – Control of return difference (*HY*), controller has humidifying output (output relay is closed), the OUT indicator light on;

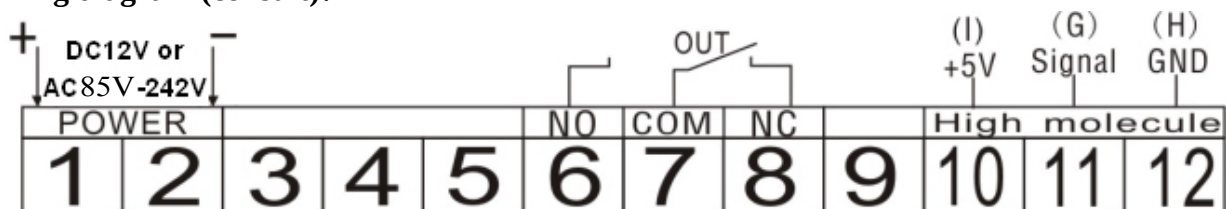
When the humidity measured value ≥ Humidity setting value (*SP*) + Control of return difference (*HY*), controller has not humidifying output (output relay is opened), the OUT indicator light off ;

5-2、When *COL* = *ON*

When the humidity measured value ≥ Humidity setting value (*SP*) + Control of return difference (*HY*), controller has dehumidifying output (output relay is closed), the OUT indicator light on;

When the humidity measured value ≤ Humidity set value (*SP*) – Control of return difference (*HY*), controller has not dehumidifying output (output relay is opened), the OUT indicator light off;

VI、Wiring diagram (consult):



VII、Error:

When the humidity sensor is beyond testing range or open circuit, the controller will display."100".

★Remark: Our company will improve product technology、design and specification continuously. If change, please subject to the material object, without notice.