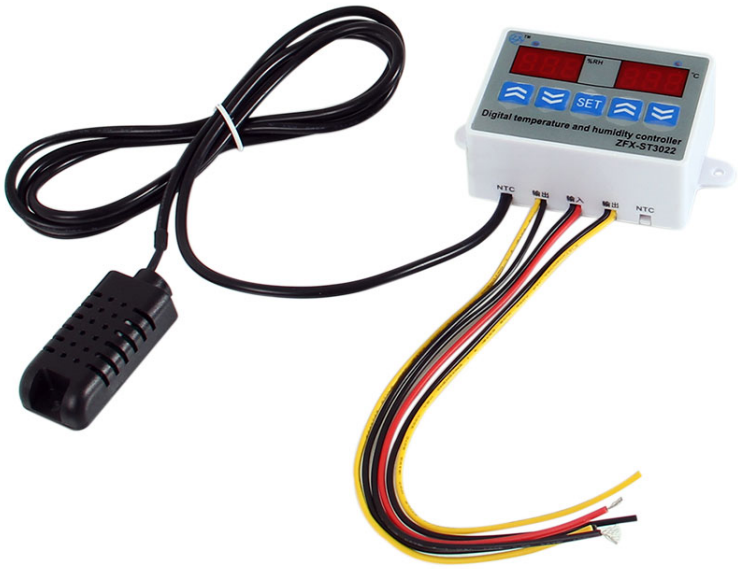
Digital Temperature & Humidity Controller 220vAC
Model: ZFX-ST3022
User Manual



Parameter List:

Humidity Setting Code

Code	Code description	Setting range	Factory default	Unit
HC	humidification / dehumidification	H/C	C	None
D	Humidity difference	1-30	5	%RH
LS	humidity lower limit	1	5	%RH
HS	humidity limit	99	95	%RH
CA	Humidity correction	-10~10	0	%RH
PT	Delayed start	0~10	1	minutes

Temperature Setting Code

Code	Code description	Setting range	Unit
HC	heating / cooling	H/C	H = Heating; C = Cooling
D	return difference	1-30	°C
LS	Low temperature alarm	-20	°C
HS	High temperature alarm	80	°C
CA	Temperature correction	-10~10	°C
PT	Delayed start	0~10	minutes

Operating Procedure:

Humidity control setting: Press Set keyboard one time, press three second enter into setting menu after humidity display flashing, it will display code HC. Press "▲ "keyboard or "▼"keyboard can cyclical

selection HC-CP-PU-CA-HP parameter code. Please press Set keyboard if you need enter into a code, press "▲ "keyboard or "▼"keyboard to modify the required numerical for five seconds then return automatically.

Press "SET" keyboard twice enter into setting menu after temperature display flashing, and display code HC, press "▲ "keyboard or "▼"keyboard can cyclical selection HC-CP-PU-CA-HP parameter code, please press "SET " keyboard if you need enter into one code ,press "▲ "keyboard or "▼"keyboard to modify the required numerical for five seconds then return automatically.

Dehumidification control: The way of mode control (code HC) it will be dehumidification control when setting as C. For example, set the humidity control value as 50% RH and humidity difference as 5%,relay start output, When environment humidity value ≤setting humidity value(50%RH),relay close output.

Damping control: The way of humidity control (code HC), set H as damping mode, for example, set the humidity control value as 50%RH and humidity difference as 5%RH. When temperature humidity value ≤setting value (50%RH)-difference/ (5%RH), relay start output. When temperature humidity ≥setting value (50%RH), relay stop output.

HC: mode selection, H means humidifying mode, C means dehumidification mode.

D: return difference, start humidify when in the humidifying mode=displaying humidity-return difference. Start humidify when in dehumidification mode=displaying humidity + return difference.

PU: Delay to start. When relay stop output and start timing. The interval time of next boot must greater than delay start time to avoid start frequently.

HP: Humidity upper limit alarm: when humidity exceed upper limit alarm, digital tube displaying "-H-", humidity lower than alarm setting value it will return back from alarm automatically.

LS; Humidity lower limit alarm: When humidity exceed lower limit, digital tube display"-L-", humidity higher than alarm setting value it will return back from alarm automatically.

CA: Humidity correction: Humidity correction value plus displaying value. For example: humidity display 50% RH correction humidity increase 5% RH, then display humidity will be 55%RH.

Heating mode: Mode control way (code HC) set as H, it is heating mode. For example, set control heating value as 35°, temperature return difference is 2°.when environment humidity value ≥setting temperature value (35°)-return difference (2 °), relay start output. When humidity value ≤ setting humidity value (35°), relay close output.

Cooling control: The way of mode control, set (HC code) as C, it is cooling mode. For example, set cooling as 35 ° and temperature return difference as 2 °.When environment value ≥ setting temperature value (35°)+return difference(2°),relay start output: when environment humidity value ≤ setting humidity value (35 °),relay stop output.

HC: Mode selection, C means cooling mode, H means heating mode.

D: return difference, start temperature when in heating mode= displaying temperature"-return difference. Start temperature when in cooling mode=displaying temperature + return difference.

PU: Delay to start, when relay stop output and start timing, the interval of time must greater than delay start time to avoid start frequently. HP: temperature upper limit alarm: when temperature exceed upper limit alarm, digital tube display "HHH", temperature lower than alarm setting it will return back from alarm automatically.

LS: temperature lower limit alarm: when temperature exceed than lower limit alarm, digital tube display "LLL", temperature higher than alarm setting it will return back from alarm automatically.

CA temperature correction: Humidity correction value plus display humidity value, for example: humidity displaying 35°, correction humidity increase 5°, then temperature should be 35°.

Reset: Press left up and down keyboard until screen displaying 888, then it will come back to factory reset.