Temperature & Humidity Controller

1. General

Our controllers accept the digital T&H sensors and display the values on the panel. They have the fan contact, the heater contact and the alarm of detection of heater and sensor.

They can be equipped with RS485 port or alarm output to realize transmitting data or controlling in the long distance. The users can program the points of alarm, the display and communication by the keys.

And they have good advantages of anti-jamming and reliability. They comply the standard of GB/T 15309-1994. (Note: Because they use the digital T&H sensor, they have a better cost than other sensor. But they measure and control in the air, such as computer room, warehouse, room of electricity distribution etc..)



2. Technical feature

Technical parameter		Value	
Sensor		Digital Temperature and Humidity Sensor	
Range	Temperature	-40℃~99.9℃	
	Humidity	1%~99%	
Precision	Temperature	±1℃	
	Humidity	±4%	
Programmable control range	Heater	-40℃~40℃	
	(raise °C)		
	Fan	0~100℃	
	(decrease °C)	0~100 C	
	Humidity control	1%~99%	
Capacity of relay		AC 250V/5A	
Communication		RS485 Port, Modbus-RTU protocol	
Power supply		85V~265V AC, 100~350V DC	
		Consumption:<0.8W+0.7W (relay)	
Test voltage		supply/input/output/connector 2kV/1 min 50Hz	
ENVIRONMENT	Temperature	Work:-10°C~55°C	
		Storage:-20℃~+70℃	
	Humidity	≤93% relative	
	Altitude	≤2500m	



3. Specification

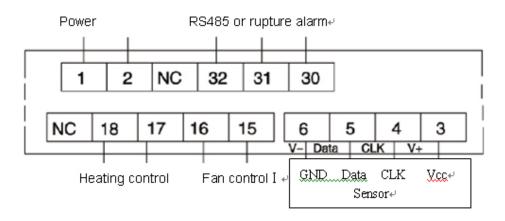
Model	Photo	Panel Size	Measurable parameters	Option
WHD72TH-11	255 642	72 x 72	1 channel T&H	
WHD96TH-11	Presentant & Manufar Commission C	96 x 96	1 channel T&H	
WHD96TH-22		96 x 96	2 channels T&H	/C RS485 port (Modbus-RTU)
WHD46TH-11	Territorian a American Service	120 x 60	1 channel T&H	
WHD46TH-22		120 x 60	2 channels T&H	
WHD46TH-33		120 x 60	3 channels T&H	

4. Note:

- 1). Number of temperature, humidity(or temperature) sensor to be connected with WHD72, WHD96, WHD 46 is up to 1,2, 3 respectively;
- 2). Every sensor matches with two dry contacts that are connected with heater and fan respectively. (The heater is for rising temperature or removing moisture, the fan is for decreasing temperature)
- 3). Between RS485 and alarming output, only one can be selected, "-C" for RS485"-J" for alarming.
- 4). The length of wire between sensor and controller ≤ 10m.

5. Wiring diagram

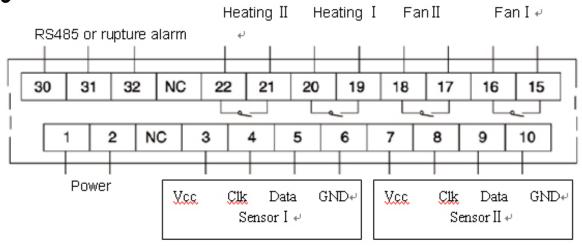
WHD72





1.

• WHD96



WHD46

