

Programmable Hygrostat+Thermostat HTW-61-HT-518

Reference No.: HTW-61-HT series

General

HTW-61-HT series Hygrostat + Thermostat uses microcomputer control technology, by detecting humidity/temperature to control fan/ electric valve/humidity equipment, so as to maintain a configurable set-point and humidity.

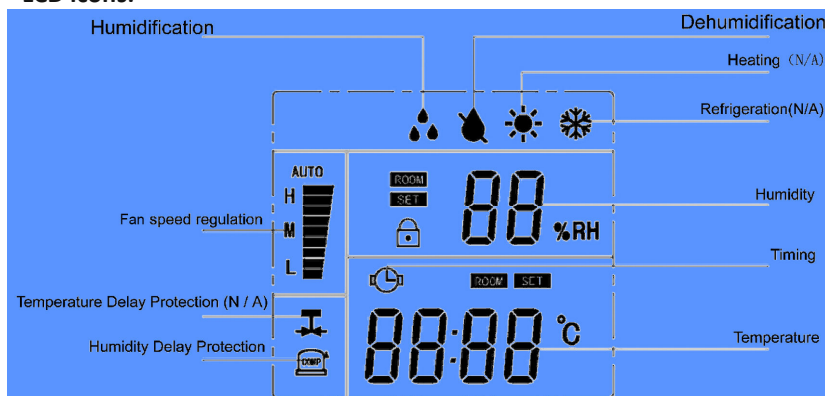
Features

- Power Supply: AC110/220/24V/Others optional
- Set-Point and Humidity Configurable
- Control Fan/Motorized valve/Humidifier/Dehumidifier equipment
- Power off memory function
- Blue backlight (Auto off without no operation after 10s)
- 8 time periods programmable.
- Temperature/Humidity display
- Modbus-RS485 communication (optional)

Technical Parameter

- Power supply: AC110/220/24V/Others optional
- Set-Point Range: 5-35°C /5-90°C configurable.
- Self-Consumption: <2 W
- Humidity Setting range: 10-90%RH
- Humidity display range: 0-99%RH
- Resolution: temperature 1°C, humidity 1%RH
- Accuracy: ±1°C, Humidity ±5% RH
- Output Contact Capacity: AC220V/5A;
- Appearance size: 86* 86*15 mm, Installation hole distance: 60 mm

LCD icons:



Button	Function
On/off	Power on/power off
Long press On	Backlight Normally On or Auto-Off in 10S
▲ ▼	Parameter Increase/Decrease
M	Value Confirm or Cool/Heat changeover
F	Fan Speed:Low-Med-High
Long press F	Programmable mode On/Off
Long press ▲ and M simultaneously for 6 seconds	Switch Between locked/unlocked status, if Locked, the Icon "LOC" appears
Under power off state, Long press M + F simultaneously for 6 seconds	Restore factory setting,LCD display" rE"

Operation

Humidity mode setting

During power-on status, long press ▲+▼ for 6 seconds,choose "dehumidification" or "humidification" mode.Press F and keep value and exit setting.

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Time setting

1.Under power off, Long press ▲+▼ enter the time setting process.

2. In sequence set hour value by ▲ or ▼, then press **F** to Switch over to minute.

3.Finally press **F** key to exit setting.

Programmable work mode setting

During power on ,Press **F** &  enter into programmable setting. Press fan speed key **F** switchover next setting item. And set separately 8 time periods humidity(adjust hour->minute->humidity...->over)

During operation clock symbol display, the corresponding period value is displayed at the bottom of the clock.

8 time periods humidity form under initialization

Period	Time interval	humidity
1	0:00--6:00	50%RH
2	6:00--8:00	50%RH
3	8:00--11:00	50%RH
4	11:00--13:00	50%RH
5	13:00--15:00	50%RH
6	15:00--18:00	50%RH
7	18:00--21:00	50%RH
8	21:00--24:00	50%RH

Installer Set-Up Process

Note:only recommend for technician)

Under power off state, long press mode key **M** over 6s.

Configure various parameters by ▲ or ▼ key. Press the mode key **M** to adjust the value, press the mode key **M** again to confirm the value, after setting, press the On/off key  to exit the engineer mode.

The configurable parameters are as follows:

Code	Function	Range	Default values
01	Device ID	0x01-0xff	0x01
02	Temperature correction range	-9~9℃	0℃
03	Humidity correction range	-30~30%RH	0%RH
04	Fan delay protection	On/Off	Off
05	Humidity return difference	1~30%RH	5%RH
06	Bit rate	01: 2400Bd 02: 4800Bd 03: 9600Bd	03: 9600Bd
07	humidity protection	On/Off	Off

Troubleshoot

1.Room temperature sensor short circuit or open circuit alarm:display E1.

2.Room humidity sensor short circuit or open circuit alarm: E2, Close the dehumidification / humidification valve..

3.Compressor symbol  flash display: humidity protection activated.

Wiring Diagram

