



# XMT\*607 series Humidity Controller

## I、Survey

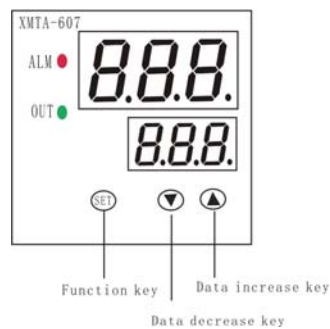
XMT\*607 series controller is dual row 3-LEDdisplay, to display the measured value and set value. It is operated with 3-keys, and the available control methods include on/off, PID control, with easy parameter setting and information inputting.

## II、Main technical Indexes

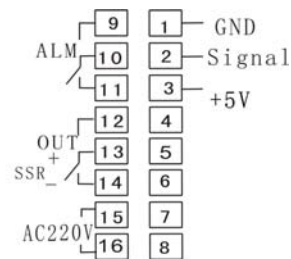
- 1、 Control Precision:  $\pm 2\%F \cdot S$
- 2、 Measurement range: 5%~100%RH
- 3、 Display precision: 0.1%RH
- 4、 Input: Macromolecule
- 5、 Relay output(passive) contact capacity: 240VAC 3A / 30VDC 1A(resistance load)
- 6、 Driving solid relay signal output: Driving electric current >15mA floating voltage>12V, period is 2S
- 7、 Working power: AC220V Power consumption<3W
- 8、 Working environment: 0~50°C, relative humidity $\leq 85\%$ , without corrode and strong electric radiation.

## III、Panel (for reference)

1、 Panel(for reference)



2、 connection(for reference)



★Specific connection should confirm to the controller's attached

## IV、Inner parameter

Sheet 4-1

Series	Attention	Name	Range	Remark	Ex-Factory
0	—	Appointed data	0~100	Press▲or▼3 second and set the temperature point you need	—
1	<i>RL</i>	High-limit Alarm	The same as above	The contact conversion output when it exceed alarm point, the alarm light be brighten (this conversion output exit only when it has alarm function)	Random
2	<i>SC</i>	Measurement deviation	-20.0~20.0	Measuring value can be modified through increasing or decreasing this data.	0
3	<i>P</i>	Proportion area	0~99.9~200	When the P ↑,the proportion and Differential function ↑ ; If the P ↓,the proportion and differential function ↓ When P=0,the meter is ON/OFF	8

4	<i>I</i>	Calculus time	0~999	It's used to adjust static difference. To increase it ,the static difference will Be reduced, but when it is too high, the static difference will drift instability.	240
5	<i>d</i>	Differential time	0~200	Set differential time, to avoid output Fluctuate.	30
6	<i>t</i>	Control period	2~ 120S	SSR is 2s; Relay is 10s	—
7	<i>HY</i>	Main control by drop in level	0.1~50.0	It has only control at 2 position	1.0
8	<i>Loc</i>	Electronics lock	0~50	<i>Loc</i> =0 all the parameter can be revised <i>Loc</i> =1 only the SP can be revised	0

## V、Operation

- 1、 Electrify after take into the power, sensor and control circuit according to the connection scheme, and then the controller start testing itself for 1 second.
- 2、 After testing itself, the controller enter into normal condition, upper row display tested value, underside row SV display the set value.
- 3、 Modify the set value

Press ▲or ▼key 3 second upper row display tested value, underside row SV display the set value. press▲or ▼key to modify, for long time to press the key can plus or minus the value. After modification, press SET to save and exit .If you don't press any key for 10s, it will save automatically and exit itself.

- 4、 Interior Technical Indexes setting (Technical Indexes refer to the sheet4-1)

Press SET key 3 second enter into the first menu, the upper window display Indexes symbol, underside window displays Index value. Press▲or ▼key to modify, for long time to press the key can plus or minus the value. .After modification, press SET to save and enter into next Indexes setting. If you don't press any key for 10s, it will save automatically and exit itself.

5、 Manual adjustment when the power is on, press SET and▼ for 3s to enter the manual adjustment state, the first word in lower row displays “H” ,it can set percentage of output power; Press SET and▼3s again can exit manual adjustment state.

## VI、 Meaning of the model code

XMT □—6 □ 7 □  
1 2 3 4

**1:** External dimension

**Blank:** 160×80×85 Installation hole156×76 **A:** 96×96×80 Installation hole 92×92  
**D:** 72×72×80 Installation hole 68×68 **E:** 48×96×75 Installation hole 44×92  
**F:** 96×48×75 Installation hole 92×44 **G:** 48×48×110 Installation hole 44×44  
**S:** 80×160×85 Installation hole 76×156 **C:** 80×120×35 Installation mode: Put up

**2:**Operation display method: ‘6’ 3-key gentle push-switch setting, dual row 3-LED display, PIDcontrol

**3:** Additional alarm

‘blank or 0’ no alarm; ‘1’upper limit alarm; ‘2’lower limit alarm

**4: Suffix blank :** relay output **G:** Solid state relay output

## VII、Fault Analysis and Clearance

XMT\*607adopt advanced production process, and have the strict test before leaving factory, it improve the reliability of the meter .The usual fault caused by the wrong operation or parameter setting .If you find the fault couldn't be cope with, please record it, and contact with the agent or us. Sheet 7-1 is the usual fault of XMT\*607 in the daily application:

Sheet 7-1 Common fault

fault symptom	analysis of causes	Disposal measurement
Abnormal power	1、 poor contact of power cord 2、 power switch without lose	Check the power
Signal display do not correlate with the facts. (display 'HH' or 'LL')	1、 Sensor model mismatch 2、 wrong signal connection	1、 check sensor model and meter interior input parameter 2、 check signal wire
Abnormal output control	1、 wrong connecting output wire	1、 check output connection

★Remark: Our company will improve product technology、 design and specification, it is confirm to the object.