

TS-7001RH Intelligence digital humidity control instrument

Instruction Manual

I、Survey

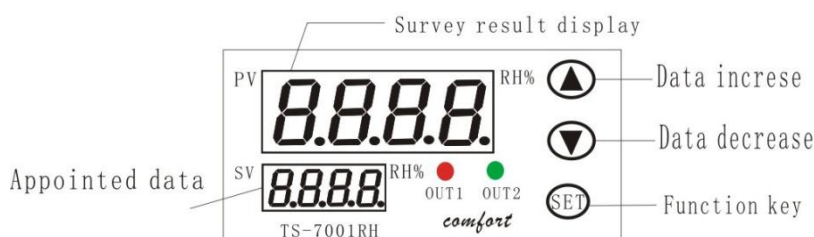
TS-7001RH humidity control instrument is intelligence dual row 4-LED displaying the measured value and setting value respectively. It is operated with 3-keys, allowing an easy inputting. This meter have a superb quality.

II、Main technical standard

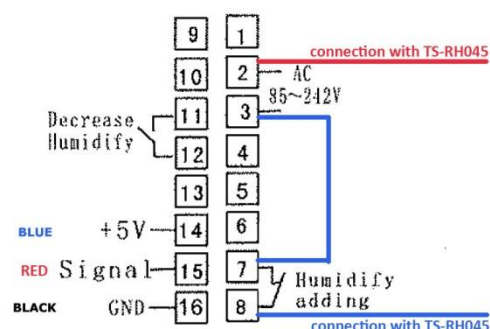
- 1、Measurement deviation: $\pm 5.0\%$ F.S
- 2、Relay output contact capacity: resistance load 220V/5A
- 3、Working power: AC 85V~242V, 50/60Hz
- 4、The effective range of the humidity: 5%~100%RH
- 5、External dimension: 96×48mm Installation hole: 92×44mm
- 6、Input: Frequency signal outputted by high molecule humidity sensor.
- 7、Working condition :temperature 0~50°C, relative humidity $\leq 85\%$ RH, without corrode and strong electric radiation.

III、Panel and connection (consult)

1、Panel



2、Connection



IV、Inner parameter

Series	Attention	Name	Range	Description	Remark
1	rH	Humidity setting	0~100.0	Set the humidity	70.0
2	Hy	Humidity return dirrerende	0~20.0	PV < rH-Hy humidity adding; PV > rH stop humidity adding ; PV > rH+Hy humidity decreasing ; PV < rH stop humidity decreasing .	5.0
3	SC	Humidity revisal	± 20.0	The measurement value can be added or deduct by this item.	0.0

V、Operation

1、Operation method:

- ① Normal connection it will show the relative humidity data in the PV window at the upper row and display setting data in the SV window at the lower row.
- ② Amend the setting data, please press the SET key 1S, when the SV window units display the decimal point, press the ▲ or ▼ key to amend the setting data.(press the ▲ or ▼ key long time can effect the number increasing or decreasing rapidly). Press the SET key confirmation amend, If

within 10 seconds do not press a key then automatically return to the display.

③ If you want to amend other data, please according ② to amend.

④ When the sensor have measurement deviation revisal can be added or deduct the SC to revisal.

2、Control:

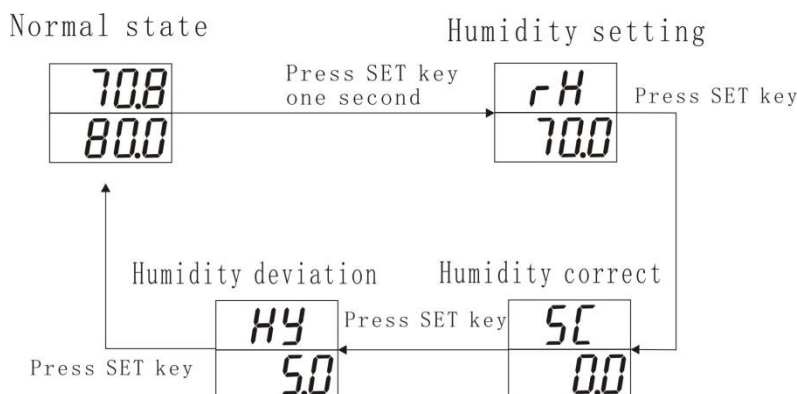
Humidity adding:

When humidity measurement value < humidity set value (rH) — humidity return difference (Hy), start humidity adding, the light brighten (green light brighten), and the relay attracting; When humidity measurement value > humidity set value (rH), stop humidity adding, the light out, and the relay be cut off;

Humidity decreasing:

When humidity measurement value > humidity set value (rH) + humidity return difference (Hy), start humidity decreasing, the light brighten (red light brighten), and the relay attracting; When humidity measurement value < humidity set value (rH), stop humidity decreasing, the light out, and the relay be cut off;

3、Flow chart



VI. Fault Analysis and Clearance

TS-7001RH adopt 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 6-1 is the usual fault of TS-7001RH in the daily application:

Sheet 6-1 Common fault handling

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 '100')	1、Sensor model mismatch 2、Wrong signal connection	1、Check sensor model and meter interior input parameter 2、Check signal wire
Abnormal	1、Wrong connection of output wire	1、Check output connection

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