

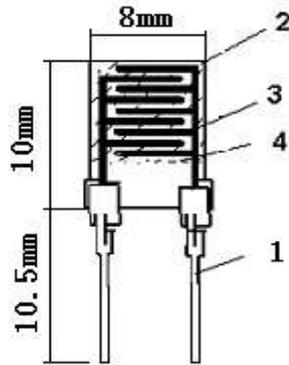
GY-HR00X

Humid resistance sensor Instruction

1. Production instruction:

Product name: macromolecule Humid resistance sensor (GY-R00X), it's a new kind of humid resistance sensor, it has wide range of humidity, fast respond, high-sensitivity, stable and reliable performance, consistency characteristics.

2. Appearance size:



1—out 2—base 3—carbon pole 4—sensor
Fig.1 1008 Appearance size

3. Scope of application

Electronics, textiles, storage, tobacco, pharmaceutical, etc.

Air conditioners, **Micro-wave ovens**, humidifier, dehumidifie and other products, etc.

4. type:

No.	Type	standard characteristic risitence
1	GY-HR002	31K Ω (25°C, 60%RH)

5. Electric characteristic:

- 5.1 rate voltage: AC 1.5V(max ,sine wave)
- 5.2 rate power: AC 0.2mW(max peak value ,sine wave)
- 5.3 working frequency: 50HZ—2000HZ
- 5.4 operating temperature range: 0°C ~ 60°C
- 5.5 operating humidity range: 0% ~ 95%RH
- 5.6 temperature characteristic: $\leq 0.5\%RH/^\circ C$
- 5.7 hysteresis : within 2%RH
- 5.8 response time : humidity $\leq 20S$, dehumidy $\leq 40S$
- 5.9 reliability: $\leq 2\%RH/year$
- 5.10 Humidity accuracy: $\leq \pm 5\%RH$
- 5.11 relative humidity - resistance characteristic (25°C, 1KHZ, AC1V, sine wave), as

figure

Notice: when it is used in 85°C ~ 120°C, it should be remarked, protection shell should be special made.

6. Standard test condition:

- 6.1 Atmospheric, temperature of 25 degrees, measured as frequency 1KHZ, voltage IVAC (sine wave);
- 6.2 Positively don't impress DC to humidity sensor
- 6.3 The use of triage-style humidity devices (GY-0 type);
- 6.4 Measured by lines : 1 core shield line.
- 6.5 Avoid contact with hard objects or fingers to prevent pollution the component
- 6.6 Avoid use in salty air and anionic ionizer, inorganic gases, Sox, NOx, Ammonia, orgnic gases, alcohols, glycols, etc.
- 6.7 Welding conditions: 180°C, 3 Second
- 6.8 Storage condition: temperature 10°C ~ 40°C, humidity: 20%RH ~ 90%RH

7: Stability test

Use the value of 60%RH humidity change as standard. After the test, it should place in normal atmosphere temperature of the normal air for 24 hours, the testing data such as table.

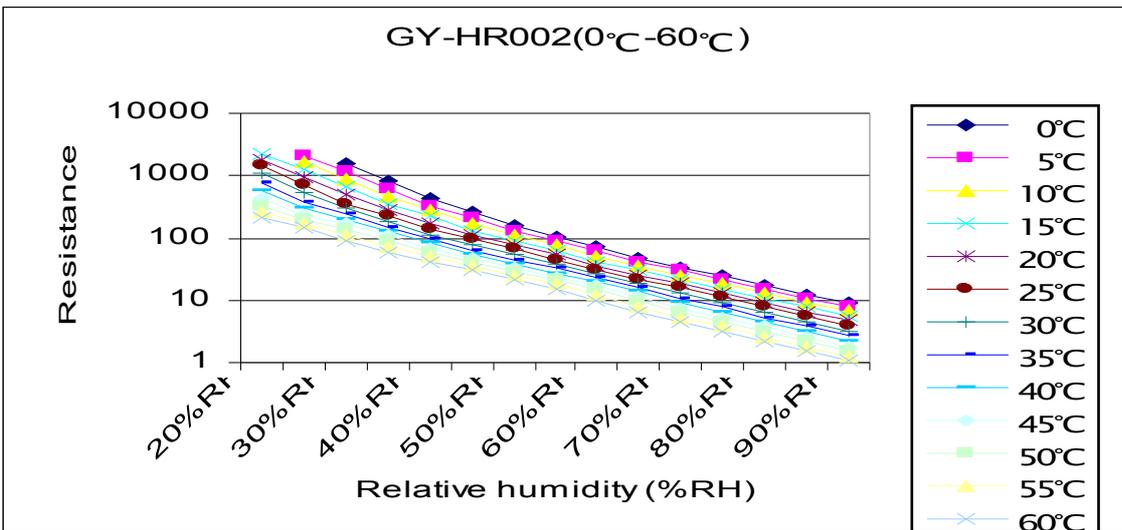
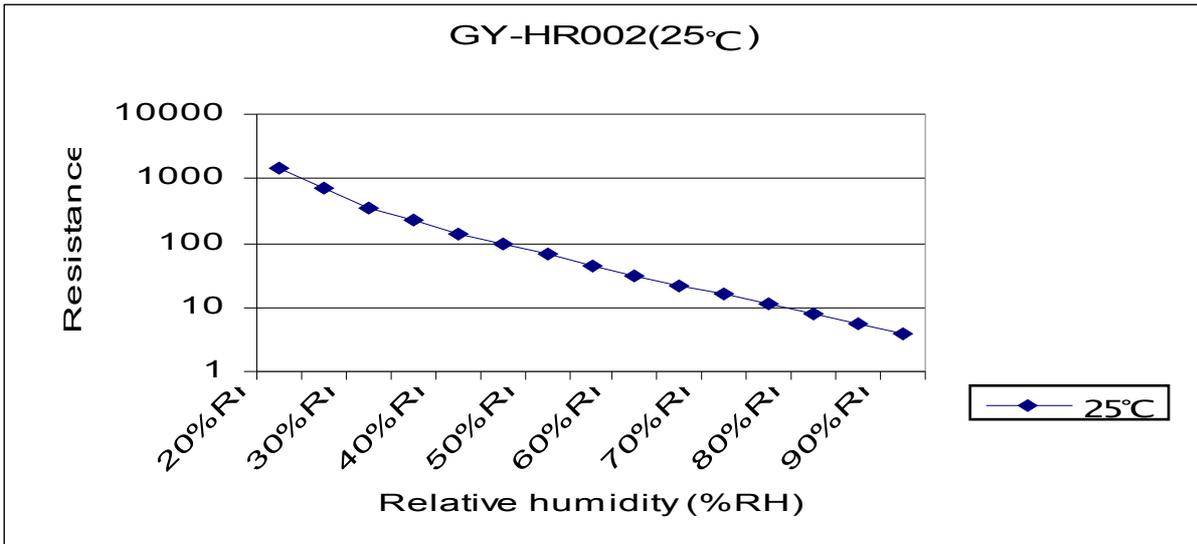


Fig.3 H-Z characteristic figure (31KΩ)