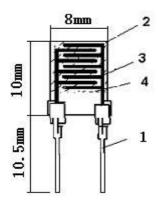
GY-HR10X

Humid resistance sensor Instruction

1. Production instruction:

Product name: macromolecule Humid resistance sensor (GY-HR10X), 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 Appearance size

3. Scope of application:

Electronics, textiles, storage, tobacco, pharmaceutical, etc. Air conditioners, **Electronic Gifts** and other products, etc.

4. Type:

No.	Туре	standard characteristic risitence
1	GY-HR100	17KΩ(25°C, 60%RH)
2	GY-HR101	23 KΩ(25°C, 60%RH)
3	GY-HR102	31 KΩ(25°C, 60%RH)
4	GY-HR104	65 KΩ(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 frequence: 50Hz ~ 2000Hz
- 5.4 operating temperature range: 0°C ~ 60°C
- 5.5 operating humidity range: 0% ~ 95%RH
- 5.6 temperature characteristic: ≤0.5%RH/°C
- 5.7 hysteresis: within 2%RH
- 5.8 response time: humidity ≤20S, dehumidy ≤40S
- 5.9 reliability: ≤2%RH/year
- 5.10 Humidity accuracy: ≤±5%RH
- 5.11 relative humidity resistance characteristic (25°C, 1KHZ, AC1V, sine wave), as figure

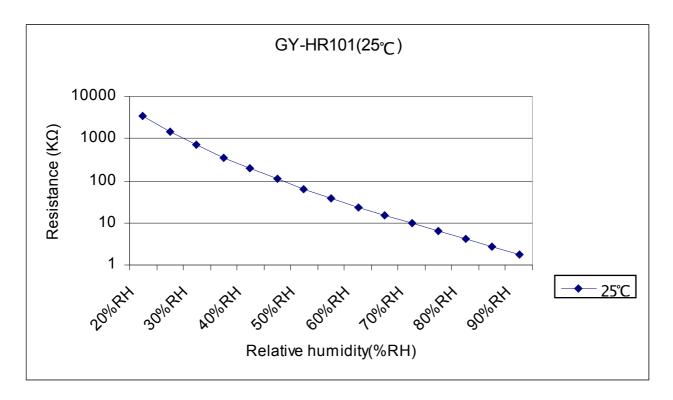
Notice: when it is used in $85 \sim 120^{\circ}$ C, it should be remarked, protection shell should be special made.

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-1 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, 3Second
 - 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.



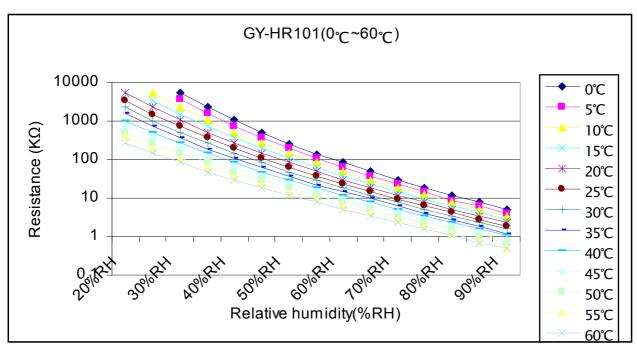


Fig.3 H-Z characteristic figure (23K Ω)