



SDR05
Dew sensor
Data sheet

Manufacturer: Ningbo Jiangbei Junrong Electron Technology Co., Ltd

Phone: 86-574-87386939, 87386839, 87386739

Web: <http://www.humidjr.com>

Email: jr@nbjrdz.com

Address: no.7 nijayan road, jiangbei district, Ningbo China

Name	Dew sensor	Ningbo jiangbei junrong electron technology Co., LTD	Frame	2005.04.25
			Emend 1	
			Emend 2	
Model	SDR05		Emend 3	

1. General

SDR05 element is sensitive in high humidity not in lower humidity; it can work at DC, with characters of stable,

2. Feature

High sensitive at high humidity environment

With switch

Work at DC

Quickly response

Anti-polluted

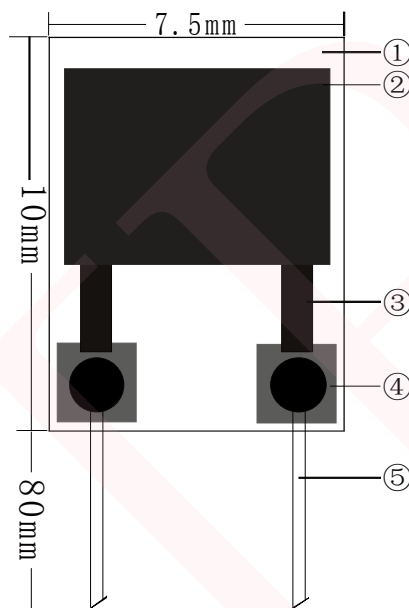
High stable and reliable

3. Application

Electron , pharmaceutical industry, food processing, warehouses, tobacco, textile, weather.

4. Shape

Detail to the picture



Serial number	Name	Material	Color
1	Ceramic based board	Ceramic	White
2	Induction wet membrane	Induction wet materials	Black
3	Cross-type electrode	Carbon slurry	Black
4	Derivative feet	Metal	Argent
5	Derivative line	Cuprum line	Blue

5. Technology reference

Max voltage: DC 1V

Temperature range: +1~60°C

Humidity range: from 1%RH to 100%RH

Dew point measuring range: from 94%RH to 100%RH

Item		Testing condition	Specification	
Resistance		75%RH 25°C	10K Ω max	
		93%RH 25°C	70K Ω max	
		100%RH 60°C	200K Ω max	
Response speed		25°C, 60%RH to 60°C, 100%RH	Below 5 seconds	
Temperature loop		-40°C, 30 minutes to 85°C, 30minutes repeat 5 times	Feature after testing: Response speed: below 10 seconds Resistance go down	
Storage	High temperature	85°C, 2000hours		
	Low temperature	-40°C, 2000hours		
	Low humidity	40 °C , 5%RH, 2000hours	Humidity	Resistance
	High humidity	40 °C , 90%RH to 95%RH, 2000hours	25 °C , 75%RH	20 K Ω max
High humidity load		At 40 °C , 90-95%RH, DC0.8V environment 2000hours	25 °C , 93%RH	90-100 K Ω
Dew point loop		25 °C , 60%RH, 57minutes to 25 °C , 100%RH 3minutes, repeat 2000times	60 °C , 100%RH	Upwards 100 K Ω

6. Note

Don't clear with impregnant, can rub-up with tampon

Make sure the sensor is good when installment

Use the purity water to test reference of sensor

Avoid putting sensor at water vapour above 60°C environment for a long time

Storage condition: from -20°C to 60°C

1、 Characteristic curve

