



MHR1B

Resistance humidity sensor

Humidity sensor module

Data sheet

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Name	Humidity Sensor module	Ningbo jiangbei junrong electron technology Co., ltd product developed department	Frame	2006.10.25
			Emend 1	2006.12.16.
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			Emend 3	
Model	MHR1B			

1. General

The MHR1B humidity sensor module is designed by Ningbo Junrong Electron. This product with characteristics of stable, best price, good crossing-over and with temperature retrieves performance. It is also ideal to measure temperature and humidity in air-conditioning, dehumidifier ,humidifier.

2. Application

Air-conditioning, dehumidifier ,humidifier, Electron, pharmaceutical industry, food processing, warehouses, tobacco, textile, weather, libraries and museum.

3. Shape

Model	encapsulation	shape
MHR1B	without shell	detail to the picture

4. Specification

- | | |
|---------------------------------|--|
| (1) Power supply (vin) | DC 5V ± 5% |
| (2) consume current | 1.6mA (max 3mA) |
| (3) Temperature operating range | 0 ~ 50°C |
| (4) Humidity operating range | under 95%RH(non dew) |
| (5) Humidity measuring range | 20 ~ 95%RH |
| (6) Temperature storing range | 0 ~ 70°C |
| (7) Humidity storing range | lower 95%RH (non dew) |
| (8) Humidity measuring Accuracy | ±5%RH (at 25°C, 60%RH vin=5.0V)
output 1815-2145mV |

(9) Typical humidity data responding to output

Based as the power supplied by 5.0V, at 25°C

Humidity (%RH)	20	25	30	35	40	45	50	55
Voltage (mV)	660	825	990	1155	1320	1485	1650	1815
Humidity (%RH)	60	65	70	75	80	85	90	95
Voltage (mV)	1980	2145	2310	2475	2640	2805	2970	3135

Remark: standard voltage output can adjust according to the customer desire.

- | | |
|---|---|
| (10) Temperature dependence (reference) | ±5%RH (vin=5.00V DC, 40 - 80%RH, at 25°C, 0-50°C) |
| (11) Voltage dependence (reference) | ±5%RH (at 25°C, 40 - 80%RH, 5V DC, 4.75-5.25V) |
| (12) Measure: | 28x18x8 mm |

5. Testing condition

At atmosphere 25°C, power supply 5.0V DC

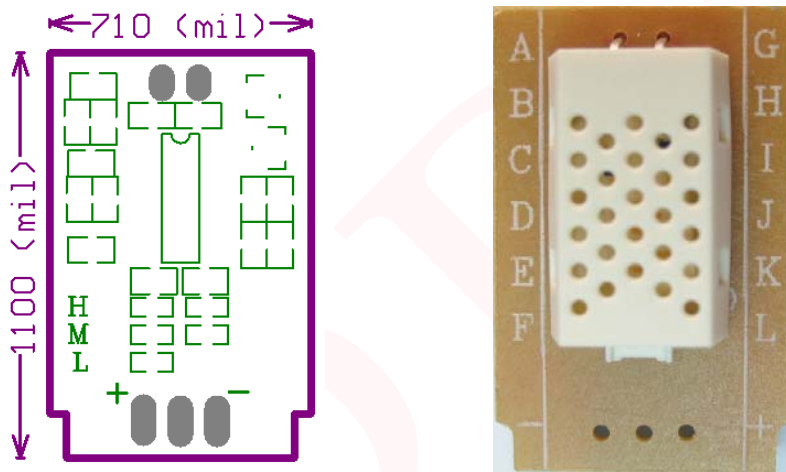
Put the humiture sensor module in dry air at 25°C/20%RH environment 30 minutes before testing, then put it into testing container keeping the Humidity 60%RH, 15 minutes later, measure the voltage.

6. Note

- (1) Avoid using when dew
- (2) Avoid putting the product in the erode atmosphere environment for long time
- (3) please be careful when connecting, no electrode protecting
- (4) Storage condition

Temperature range 10 ~ 40°C
Humidity range under 60%RH

Chart1. exterior picture (MHR1B) .



Electric connecting

Electric tie-in	Content
1	Power supply DC 5V
2	Humidity output
3	GND

chart2.

