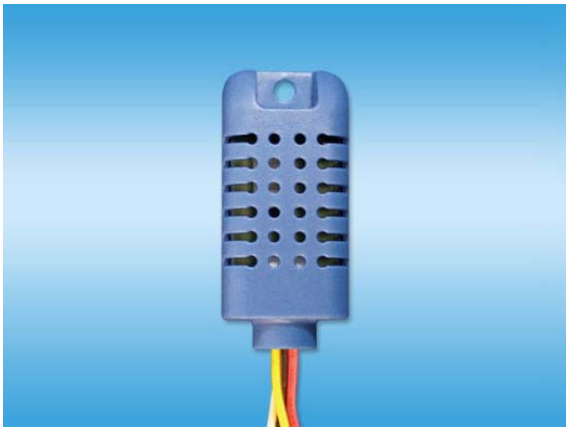
Voltage-output relative humidity and temp. sensor/module

Model: MMT1001



Resistive-type humidity and temperature sensor/module

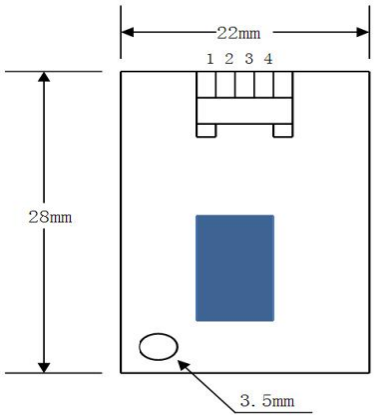
1. Feature & Application:

Temperature compensated!
Good price, Fast delivery!
0.6-2.7V DC output !
Humidity Accuracy +-5.0%RH!
Range 20 to 90% RH !
Light weight, easy installation!

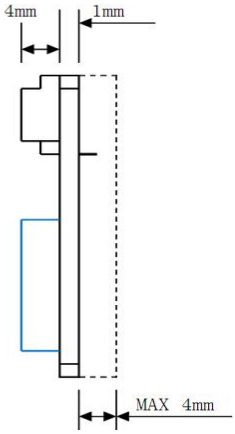
2. Technical Specification:

Model	MMT1001	
Power supply	4-5.5V DC	
Output signal	0.6- 2.7V DC	
Sensing element	Polymer resistor	
Operating range	humidity 20-90%RH;	temperature 0~60Celsius
Accuracy	**humidity +-5%RH**	temperature +-1Celsius
Resolution or sensitivity	humidity 1%RH;	temperature 1Celsius
Repeatability	humidity +-1%RH;	temperature +-1Celsius
Humidity hysteresis	+-1%RH	
Long-term Stability	+-1%RH/year	
Response time	10s(average)	
Interchangeability	fully interchangeable	
Dimensions	size 22*28*5mm	

3. Dimensions: (unit----mm)



Front view



Side elevation

4. Electrical connection diagram:

No. Of electrical joint	Explaination
1	Power 4-5.5V DC
2	Output of RH 0.6-2.7V DC
3	Gnd
4	NTC for temperature detect

Diagram 1

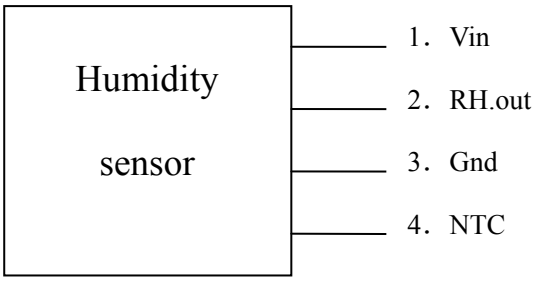


Diagram 2

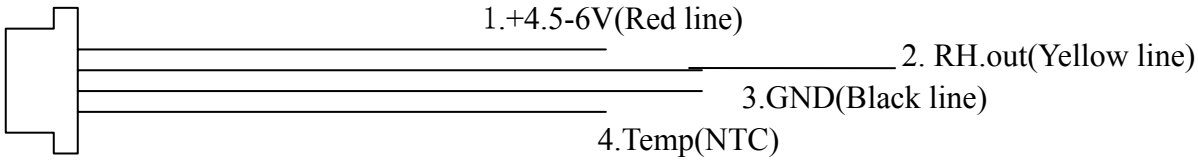
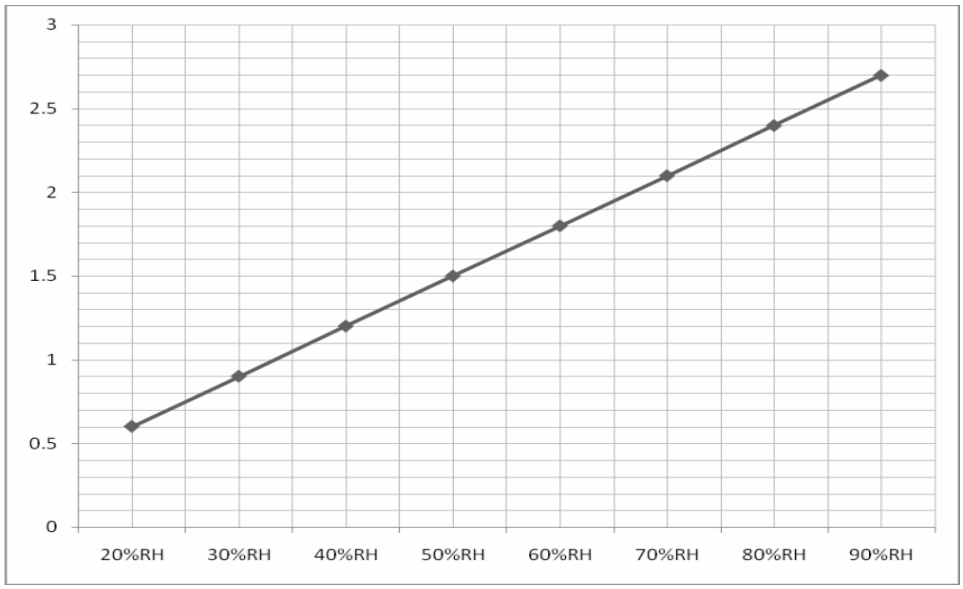


Diagram 3

5. Typical performance diagram:

Voltage(Diagram of output for humidity).



RH

NTC(25℃, 10KΩ, B:3435) on AMT1001's PCB board for detecting temperature.

T(℃)	R(KΩ)	T(℃)	R(KΩ)	T(℃)	R(KΩ)
0	28.469	18	13.190	36	6.621
1	27.215	19	12.670	37	6.385
2	26.023	20	12.172	38	6.160
3	24.891	21	11.697	39	5.943
4	23.814	22	11.244	40	5.736
5	22.791	23	10.810	41	5.537
6	21.817	24	10.369	42	5.345
7	20.891	25	10.000	43	5.162
8	20.009	26	9.621	44	4.986
9	19.170	27	9.259	45	4.816
10	18.371	28	8.912	46	4.654
11	17.610	29	8.581	47	4.497
12	16.885	30	8.263	48	4.347
13	16.194	31	7.959	49	4.203
14	15.535	32	7.668	50	4.064
15	14.907	33	7.389		
16	14.308	34	7.122		
17	13.736	35	6.866		