

H500M Humidity and temperature module

Feature

- ❖ Use capacitive type humidity sensor & Temperature sensor in one module
- ❖ Linear voltage output & widely detecting. range: 0-100%RH, 0~+50C.
- ❖ Smaller size, with high stable quality.



Functions:

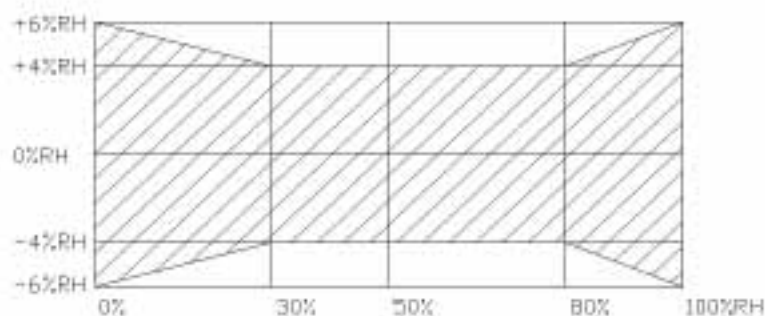
Measuring range	0%RH ~100%RH
Signal output	0.38~3.68V (Linear between 0%RH ~100%RH)
Accuracy	$\leq \pm 4\%RH$ (@ 25°C, 30%RH ~80%RH)
Power consumption	<1.5mA
Input power	5V DC $\pm 2\%$
Operating range	0°C ~+50°C
Storage range	0°C ~+60°C (without dew point)
Connector	4 pin with pitch 1.5 mm
Detecting time	< 5 Second
Humidity sensor	Capacitive type humidity sensor
Temperature sensor	NTC thermistor ($R_{25}=50K$, 4000)

Typical Humidity output

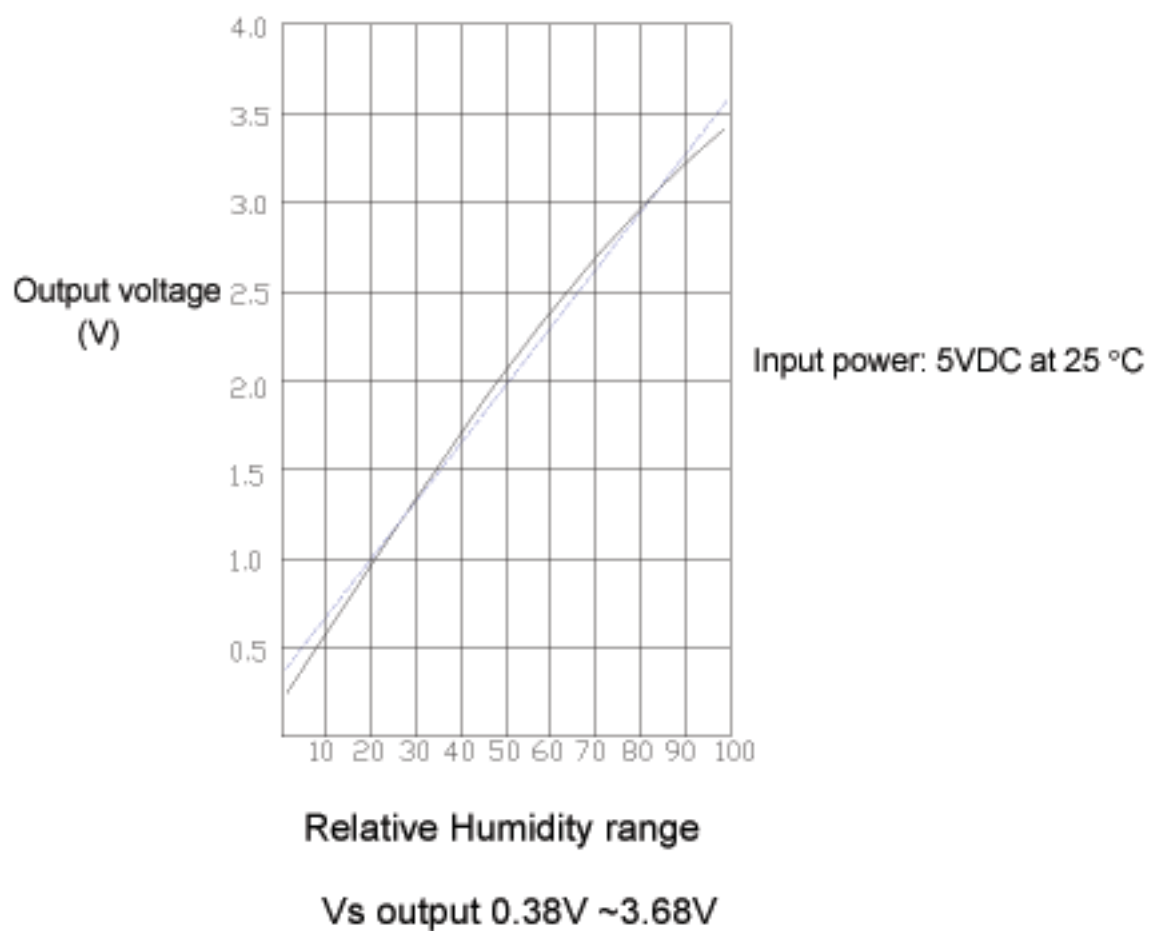
Input 5 VDC at 25 C

	30%RH	40%RH	50%RH	60%RH	70%RH	80%RH
H600M	1.37V	1.70V	2.03V	2.36V	2.69V	3.02V

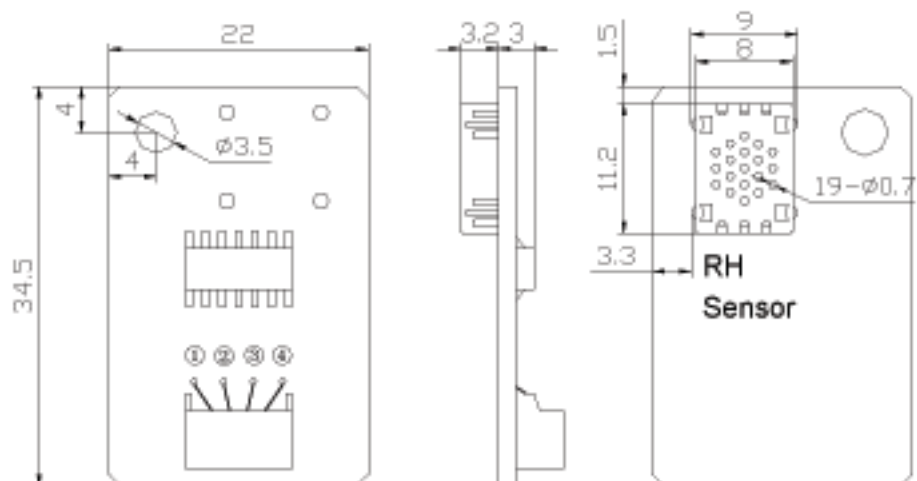
Humidity accuracy curve



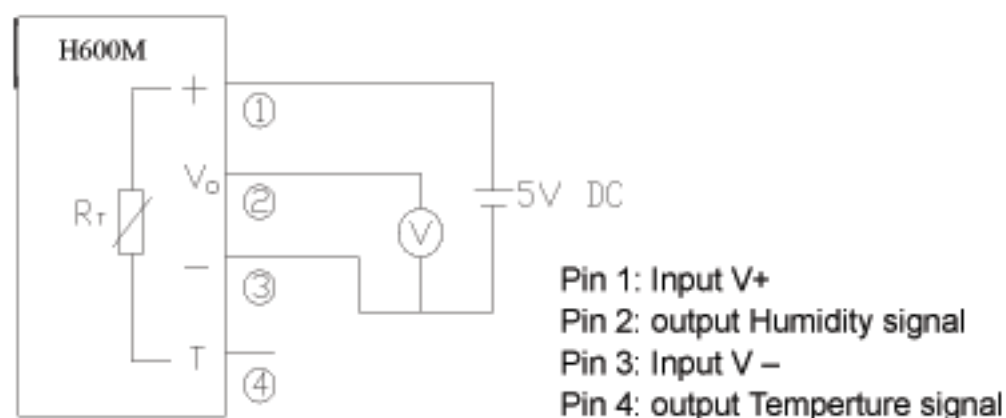
Humidity output curve:



Module dimension:



Terminal connecting:



Remark:

1. Do not put the module under the sun light long time.
2. Must turn off the power when user install or change the module in the equipment.
3. If request high accuracy performance, please calibrate the module every 12 months.

Attached:

Temperature output data

Temp	Resistance(K ohm)			Tem	Resistance (K ohm)			Tem	Resistance (K ohm)		
℃	Min.	Typic	Max	℃	Min	Typic	Max	℃	Min	Typic	Max
0	159.3	162.8	166.4	20	61.70	62.46	63.22	40	26.17	26.61	27.04
1	151.5	154.8	158.1	21	59.01	59.71	60.41	41	25.13	25.56	25.99
2	144.1	147.2	150.3	22	56.45	57.10	57.74	42	24.14	24.55	24.98
3	137.2	140.0	142.9	23	54.02	54.61	55.21	43	23.19	23.60	24.01
4	130.6	133.2	135.8	24	51.70	52.25	52.79	44	22.28	22.68	23.09
5	124.3	126.8	129.2	25	49.50	50.00	50.50	45	21.47	21.81	22.21
6	118.4	120.7	123.0	26	47.36	47.86	48.36	46	20.58	20.97	21.36
7	112.8	114.9	117.0	27	45.33	45.82	46.32	47	19.79	20.17	20.55
8	107.5	109.5	111.4	28	43.39	43.88	44.38	48	19.03	19.40	19.78
9	102.5	104.3	106.1	29	41.55	42.04	42.53	49	18.30	18.67	19.04
10	97.75	99.42	101.1	30	39.79	40.28	40.77	50	17.61	17.97	18.33
11	93.24	94.78	96.34	31	38.12	38.60	39.09	51	16.94	17.29	17.65
12	88.96	90.39	91.84	32	36.52	37.00	37.49	52	16.30	16.65	17.00
13	84.90	86.23	87.56	33	35.01	35.48	35.96	53	15.69	16.03	16.38
14	81.05	82.28	83.51	34	33.56	34.03	34.50	54	15.11	15.44	15.78
15	77.39	78.53	79.67	35	32.18	32.64	33.11	55	14.55	14.88	15.21
16	73.92	74.97	76.03	36	30.86	31.32	31.78	56	14.02	14.34	14.66
17	70.63	71.60	72.58	37	29.61	30.06	30.51	57	13.50	13.82	14.13
18	67.50	68.39	69.29	38	28.41	28.85	29.30	58	13.01	13.32	13.63
19	64.52	65.35	66.18	39	27.27	27.70	28.15	59	12.54	12.84	13.15
								60	12.09	12.38	12.68