HUMIDITY & TEMPERATURE MODULE
HMZ-433A

INTRODUCTION

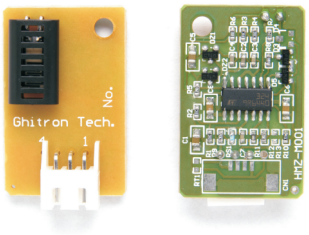
The HMZ-433A is a humidity and temperature sensing module that can be installed in a wide range of applications. This module requires no additional engineering and has specified inputs and outputs.

FEATURES

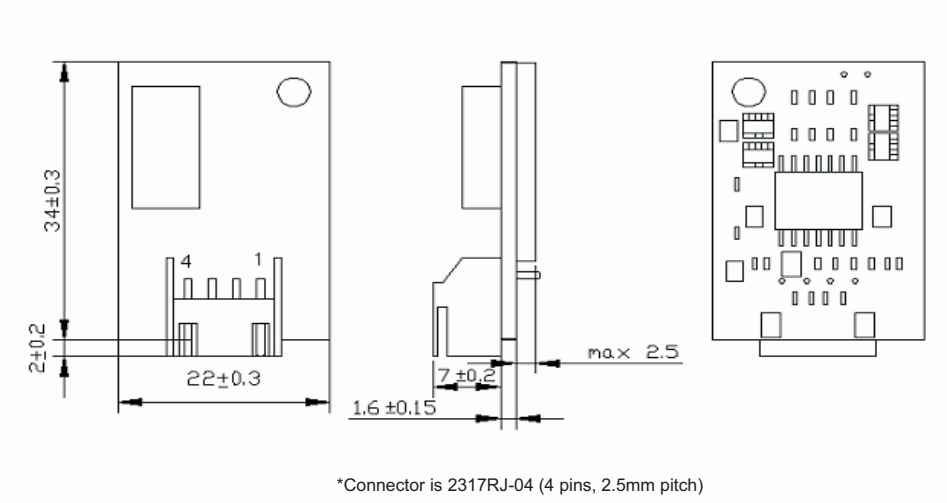
- Wide humidity operation range
- Linear DC output
- Long term stability
- Small and economical
- Temperature sensing included
- RoHS Compliant

APPLICATIONS

- Airconditioner, Humidifier, Dehumidifier
- Humidity Controller, Humidity transmitter
- Hygrometer, Hygro-recorder
- Copy machines, Data Equipment
- Appliance
- Weather forecast Equipment



DIMENSIONS



*Connector is 2317RJ-04 (4 pins, 2.5mm pitch)

ELECTRICAL CHARACTERISTICS

Sensing Element (Humidity)	HMZ-433A, Ghitron HCZ-H6A	
Supply Voltage (VIN)	5Vdc±5%	
Current Consumption	5mA max (2mA average.)	
Operating Range	0 to 60°C	95% RH or Less
Storage Range	-20 to 60°C	95% RH or Less
Humidity Transmitting Range	30 to 90% RH	
Accuracy at 25°C(±0.5°C)	±5%RH (at 60%RH, Vin=5Vdc)	

Humidity Output (At 25°C, Vin=5Vdc) *See Figure A

% RH	30	40	50	60	70	80	90
Vo	1.00	1.32	1.65	1.98	2.31	2.64	2.97

Temperature Response (50kΩ±1% thermistor) *See Figure B

Temp (°C)	0	10	20	25	30	40	50	60
Resistance (kΩ	160.56	98.71	62.32	50	40.3	26.75	18.8	12.5

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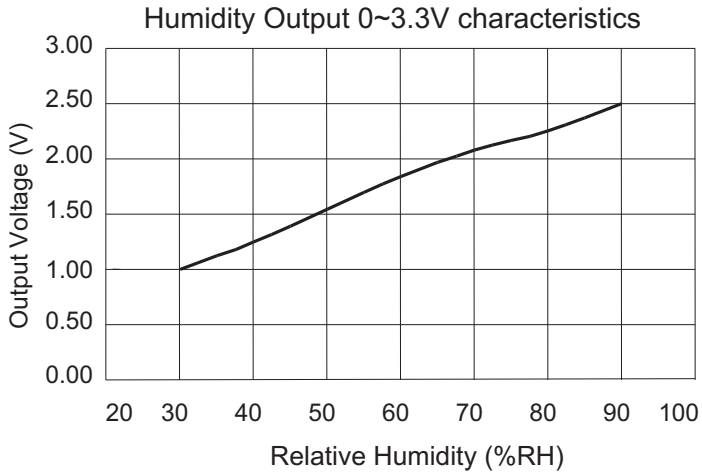
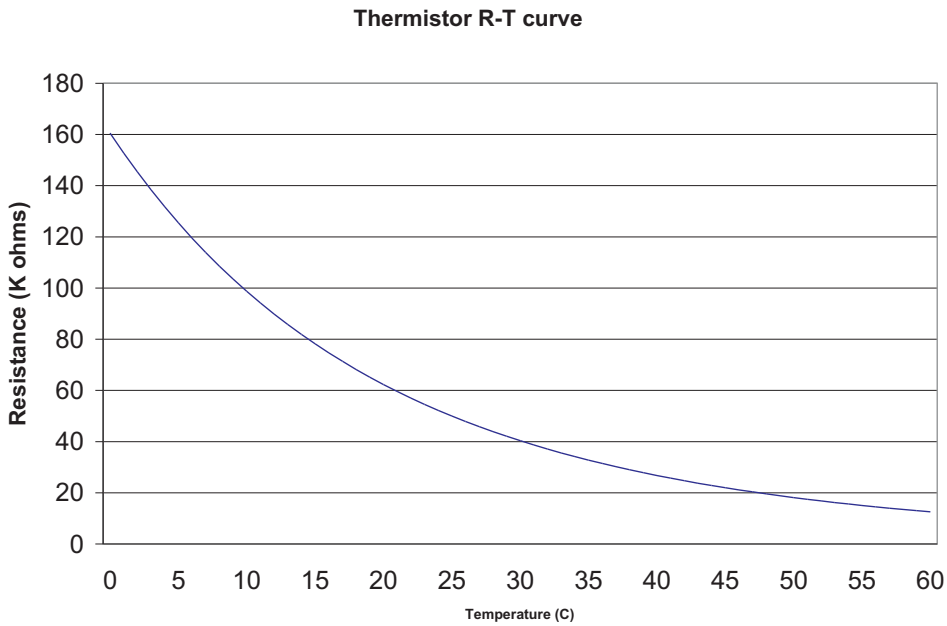
FIGURE A



	15°C	20°C	25°C	30°C	35°C	40°C
30% RH	1.23	1.09	1.02	0.94	0.83	0.78
40% RH	1.39	1.32	1.30	1.20	1.14	1.13
50% RH	1.65	1.65	1.64	1.60	1.58	1.62
60% RH	2.01	2.00	1.98	1.97	1.94	1.95
70% RH	2.28	2.21	2.25	2.22	2.15	2.16
80% RH	2.47	2.46	2.45	2.41	2.42	2.42
90% RH	2.82	2.77	2.73	2.71	2.70	2.67

HMZ Module Humidity Output 0~3.3V v.s. Temperature Characterisics

FIGURE B



HOW TO USE IN CIRCUIT