



REQUEST FOR APPROVAL

ITEM	Humidity Sensor Module
MODEL NO.	GHM-30/30T
DESCRIPTION	
CODE NO.	
APPLIED TO	
REFERENCE	

DRAWING	CHECK	APPROVAL



TO : _____

HUMIDITY MODULE

P/N : GHM-30/30T

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SPECIFICATIONS

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VINOSTECH



1. Scope of application

This specification is applied to the humidity sensor module

2. Configuration

	Module No.	Connector Type	Thermistor	Drawing
1	GHM30	Wafer(SMAW250-03)	None	Fig.1
2	GHM30T	Wafer(SMAW250-05)	Option	

3. Electrical characteristics

- 3.1 Sensing Element (Humidity) : Humidity Sensor
- 3.2 Supply Voltage : DC 5V \pm 5%
- 3.3 Current Consumption : 4mA Max.(2mA avr.)
- 3.4 Operating Temperature Range : 0 ~ 60°C
- 3.5 Operating Humidity Range : 0 ~ 95%
- 3.6 Storage Temperature Range : -30 ~ 85°C
- 3.7 Storage Humidity Range : 0 ~ 95%
- 3.8 Humidity Transmitting Range : 20 ~ 95%

3.9 Typical output characteristics (Reference)

RH (%)	20	30	40	50	60	70	80	90
Output(mV)	660	990	1320	1650	1980	2310	2640	2970

- 3.10 Accuracy : \pm 5% (at 25°C)

4. Standard instrument for condition

- 4.1 Test condition : Ambient temp. 25°C, Voltage 5.0VDC
- 4.2 Measurement instrument : Humidity & Temperature Chamber, Voltage meter



5. Reliability Test

No	ITEM	METHOD	REQUIREMENT
1	Impact test	To drop module 3times at random on to a hard wooden plate from 1meter above high.	No breakage, nor cracks. Should be electrically normal
2	Vibration test	Vibration test in X-Y-Z axis for 30min under 10-55Hz frequency, 1.5mm(10-55-10Hz amplitude.	Within \pm 5%
3	Heat resistance	To leave module in an ambient of 55°C and 30%RH max. for 48hours.	Within \pm 5%
4	Cool resistance	To leave module in an ambient of -10°C and 30%RH max. for 48hours.	Within \pm 5%
5	Humidity resistance	To leave module in an ambient of 40°C and 95%RH for 48Hours.	Within \pm 5%
6	Temperature cycle test	5cycles. 1cycle stands for leaving module under -10°C for next 1hour. Then, leave it another 1hour and lower temp. to -10°C for next 1 hour	Within \pm 5%

7. Remark on using

- (1) Positively don't impress DC to the humidity sensor.
- (2) Avoid condensation and drenching as much as possible.
- (3) Using in relatively clean air.
 - Take full care of using in the atmosphere of the below gas.
 - (a) salty air or nearby anionic ionizer
 - (b) Inorganic gases ... SO_x, NO_x, Ammonia, etc.
 - (c) Organic gases ... Alcohols, Glycols Aldehydes, etc.



- (4) Recommendable storage condition
Temperature range : 10 ~ 40℃
Humidity range : 60%RH max.

- (5) Do not store humidity sensor long period of time in an ambient 60℃ due to some occasion of degradation on sensor housing case.



Fig 1. Configurations

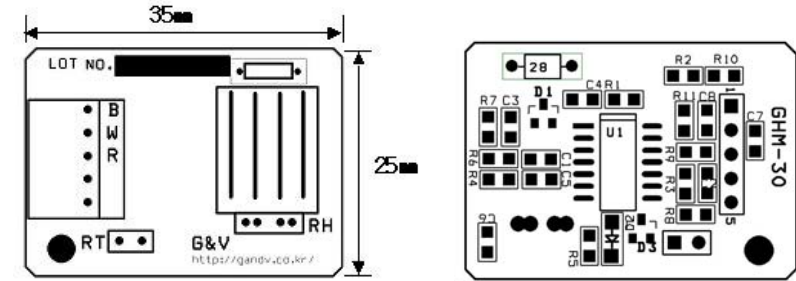


Fig 2. Basic characteristics

