

# Humidity Sensor

**NEW !**

## High Accuracy Humidity Module *RHI Series*

RHI Series module consists of a reliable and proven humidity sensor and a custom IC designed exclusively for the sensor, which achieved easy operation, high accuracy and cost-effectiveness.

### Feature

- High Accuracy:  $\pm 3\%rh$  (at 25 50%rh)
- Input Voltage: 3.15 ~ 5.5V
- Low Voltage dependency (include regulator in IC)
- Linear Output Voltage: 0-3V ( at90%rh : 3V )
- Low temperature dependency
- Analog or Digital output ( I2C )
- Wide humidity range
- Low power consumption ( 1/4 of the conventional products )



### Application

- Copying Machine, Printer
- Air –conditioner, Humidifier, Dehumidifier
- HVAC equipment



### Maximum Rating

	Rated value	Unit
Supply Voltage	D C 3 . 1 5 ~ 5 . 5	V
Operating Temp.	0 ~ 6 0	
Operating Humidity	1 0 ~ 9 0	% r h
Storage Temp.	- 2 0 ~ 7 0	
Storage Humidity	9 0 % r h or less (no condensation)	% r h

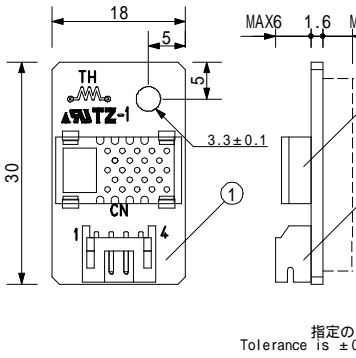
Recommendable storage condition 1 0 ~ 4 0 , 0 ~ 6 0 % r h

### Characteristics

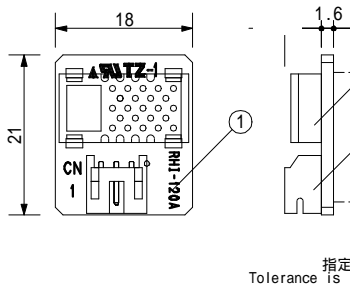
	Condition	Min.	Std.	Max	Unit
Input Voltage	-	3 . 1 5	5 . 0	5 . 5	V D C
Output Voltage	At25	0 . 1 5	~	3 . 3	V
Consumption	at25 · 50%rh		0 . 5	0 . 7 5	mA
Temp. dependency	at25 , 40-80%rh, Vin=5V, range of 10-40	- 5	-	+ 5	% r h
Voltage dependency	at25 , 40-80%rh, Vin=5V, range of $\pm 10\%$	- 1	-	+ 1	% r h
Hysteresys	at25 , WS1.2cm/s at30 ~ 90%rh	- 3	-	+ 3	% r h

## Configuration

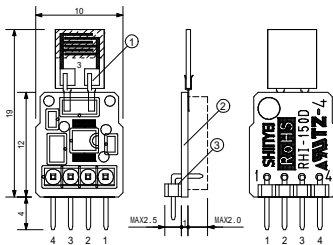
### 【RHI-112 Series】



### 【RHI-120 Series】

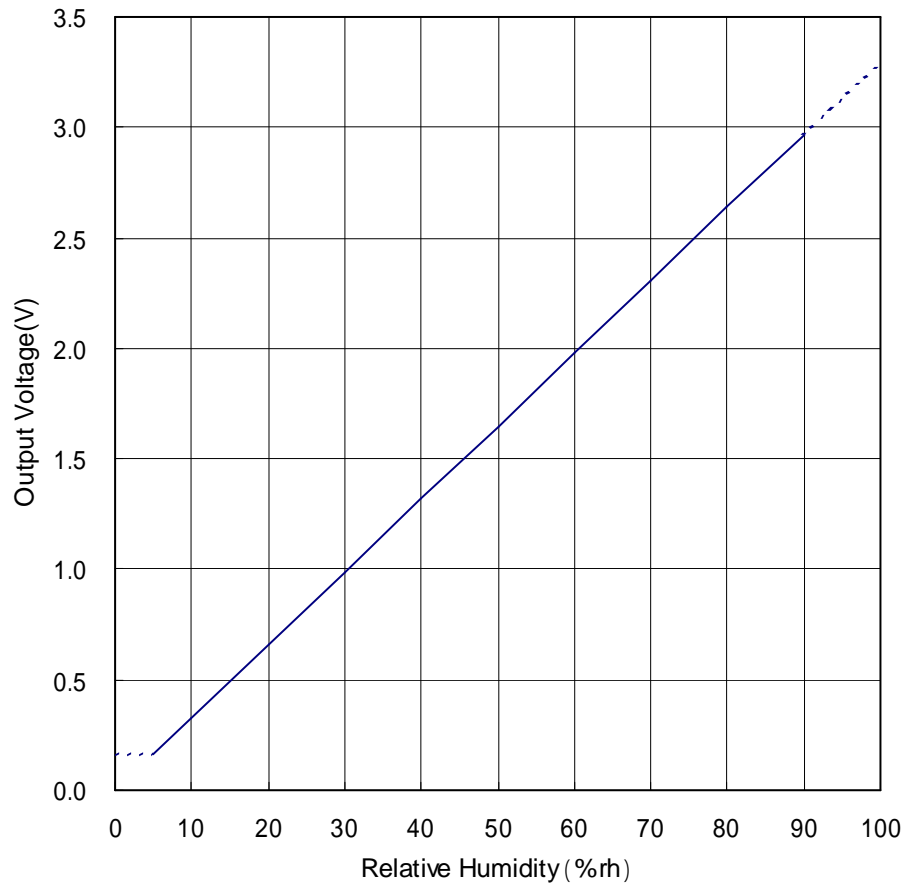


### 【RHI-150 Series】



## Characteristics

Relative Humidity Voltage Characteristics (at 25 °C · VDD3.3V)



### Caution for use

- Avoid condensation and drench.
- Avoid saline, inorganic and organic gas.

## RHI Series LINE UP

Model No.		Humidity Output	Temperature Output	
<b>RHI-112</b>	<b>A</b>	Voltage	Thermistor(10K )	Size : 30Lx18Wx10H
	<b>C</b>	Voltage		
	<b>D</b>	Digital(I2C)	Digital(I2C)	
<b>RHI-120</b>	<b>A</b>	Voltage		Size: 21Lx18Wx10H
	<b>D</b>	Digital(I2C)	Digital(I2C)	
<b>RHI-150</b>	<b>D</b>	Digital(I2C)	Digital(I2C)	Size: 23Lx10Wx5.5H

DUE TO CONTINUOUS PRODUCT IMPROVEMENT, THE DESIGN AND TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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