

HUMIDITY SENSOR

SHINYEI 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

LINE UP :

Model No.		Humidity output	Temperature Output	Size
RHI-112	A	Voltage	Thermistor (10KΩ)	30L*18W*10H
	C	Voltage	-	
	D	Digital (12C)	Digital (12C)	
RHI-120	A	Voltage	-	21L*18W*10H
	D	Digital (12C)	Digital (12C)	
RHI-150	D	Digital (12C)	Digital (12C)	23L*10W*5.5H



RHI-150D

RHI-112A

FEATURE :

- High Accuracy: $\pm 3\%$ rh (at 25 °C 50%rh)
- Input Voltage: 3.15~5.5V
- Low Voltage dependency (include regulator in IC)
- Linear Output Voltage: 0-3V (at 90%rh : 3V)
- Low temperature dependency
- Analog or Digital output (I2C)
- Wide humidity range
- Low power consumption (1/4 of the conventional products)

SPECIFICATION :

Parameter	Rated Value	Unit
Supply Voltage	DC 3.15 ~ 5.5	V
Operating Temperature	0 ~ 60	°C
Operating Humidity	10 ~ 90	% r h
Storage Temperature	-20 ~ +70	°C
Storage Humidity	90%rh or less (no condensation)	% r h

- Recommendable storage condition: 10 ~ 40°C, 0 ~ 60%rh

CHARACTERISTICS :

Parameter	Condition	Min.	Std.	Max.	Unit
Input voltage	-	3.15	5.0	5.5	VDC
Output Voltage	At 25°C	0.15	~	3.3	V
Consumption	At 25°C, 50%rh	~	0.5	0.75	mA
Temp. dependency	At 25°C, 40-80%rh, Vin=5V, range of 10-40°C	-5	~	+5	%rh
Voltage dependency	At 25°C, 40-80%rh, Vin=5V, range of $\pm 10\%$	-1	~	+1	%rh
Hysteresys	At 25°C, WS 1.2cm/s at 30°C~ 90%rh	-3	~	+3	%rh

APPLICATION :

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

SHINYEI offers a comprehensive range of humidity instruments: sensors, chilled mirror dew point hygrometers and humidity generators for the measurement and calibration of relative humidity and dew point parameters.



The trustworthy name...

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