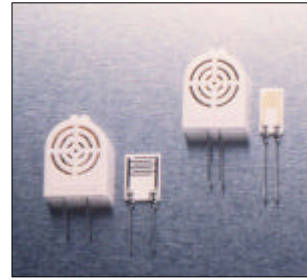


HUMIDITY SENSOR UNITS

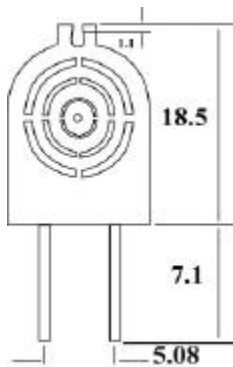
Series,
Dimensions,
Specifications,
Standard characteristics,
Characteristics curve
Reliability test result



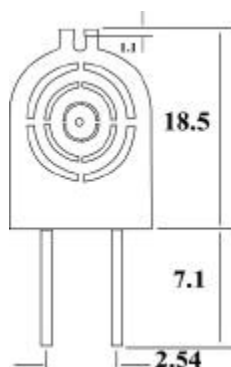
● Series

SY-HS-1	Humidity sensors made of a thermosetting resin developed by our technology for water resistance and durability, excellent compared with other products.
SY-HS-2	
SY-RS-1	RS sensor uses in storehouse of low temperature and applied system maintains freshness of foods, fruits and vegetables.
SY-DS-2	DS sensor is capable of detecting and/or forecasting dew condensation by decreased value around dew point.

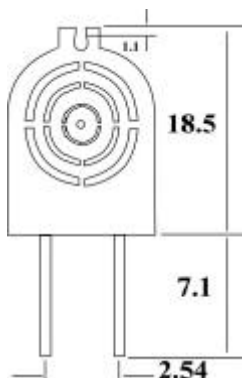
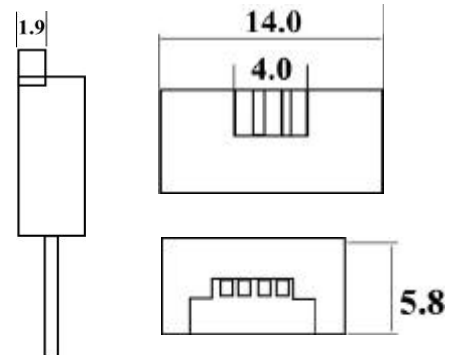
● Dimensions (Unit : mm)



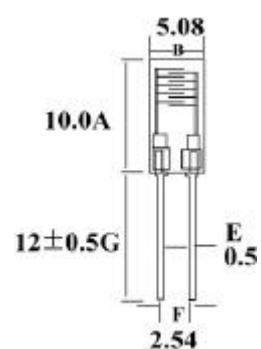
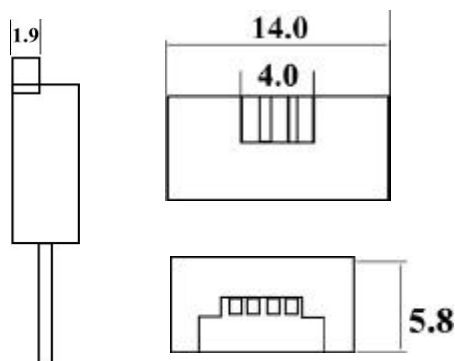
SYH-1



SYH-2



SY-RS-1



SY-RS-2

● Specifications

Items	SYH-1	SYH-2
Rated voltage	AC 1.0V _{RMS} (1kHz)	AC 1.0V _{RMS} (1kHz)
Rated power	AC 0.26mW	AC 0.22mW
Operating temperature range	0~60℃	-0~60℃
Operating humidity range	20~95%RH	20~95%RH
Storable temperature range	-30℃~85℃	-30℃~80℃
Storable humidity range	95%RH, or less	95%RH, or less
Standard characteristic	23kΩ(at 25℃, 60%RH)	33kΩ(at 25℃, 60%RH)
Humidity accuracy	±5%RH(at 25℃, 60%RH)	±5%RH(at 25℃, 60%RH)
Humidity response time	<60 sec.(40%RH → 80%RH)	<60 sec.(40%RH → 80%RH)
Hysteresis	±2%RH(40%RH ↔ 80%)	±2%RH(40%RH ↔ 80%)

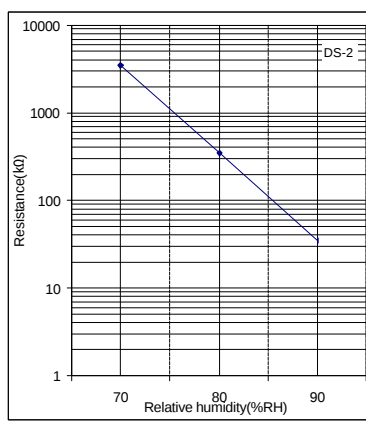
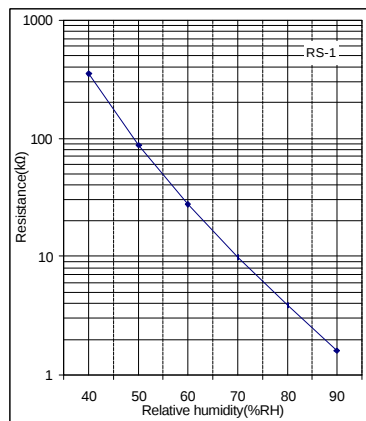
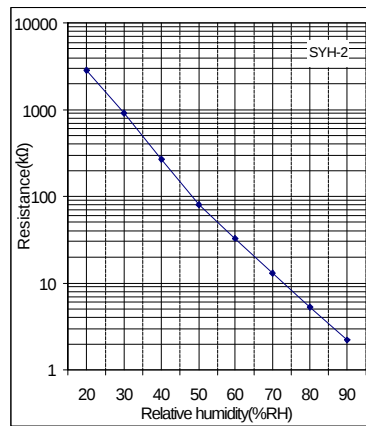
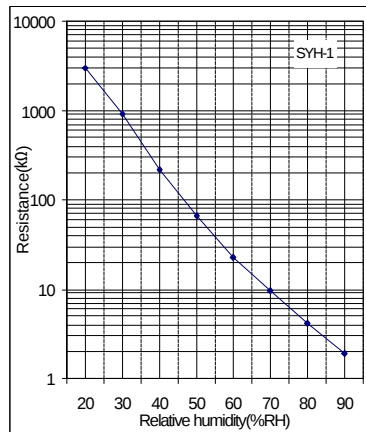
Items	SY-RS-1	SY-DS-2
Rated voltage	AC 1.0V _{RMS} (1kHz)	AC 1.0V _{RMS} (1kHz)
Rated power	AC 0.22mW	AC 0.22mW
Operating temperature range	0~20℃	-5~60℃
Operating humidity range	40~95%RH	60~100%RH
Storable temperature range	-30℃~85℃	-40℃~80℃
Storable humidity range	98%RH, or less	100%RH, or less
Standard characteristic	3.9kΩ(at 5℃, 80%RH)	35kΩ(at 25℃, 90%RH)
Humidity accuracy	±5%RH(at 5℃, 80%RH)	±5%RH
Humidity response time	<60 sec.(40%RH → 80%RH)	<60 sec.(70%RH → 98%RH)
Hysteresis	±3%RH(40%RH ↔ 80%)	±3%RH(70%RH ↔ 98%)

● Standard characteristics

Unit : kΩ(at 25℃, 1kHz)

%RH	SPEC.			
	SYH-1	SYH-2	RS-1	DS-2
20	3000	2890	—	—
30	920	900	—	—
40	220	270	353.0	—
50	66	81	88.4	—
60	23	33	27.5	—
70	9.6	13	9.8	3500
80	4.2	5.3	3.9	350
90	1.9	2.2	1.6	35
95	1.3	1.5	1.1	10

● Characteristics curve



● RELIABILITY TEST RESULTS

Items	Test conditions	Performance
Heat resistance	85℃, 1,000 hours	<±5%RH
Cool resistance	-30℃, 1,000 hours	<±5%RH
Humidity resistance	40℃, 95%RH, 1,000 hours	<±5%RH
Temperature cycle	100 cycles 1 cycle : 30℃(30 min.)↔85℃(30 min.)	<±5%RH
Humidity cycle	500 cycles 1 cycle :30%RH(30 min.)↔90%RH(30 min.)	<±5%RH
Voltage resistance	Applied 1V _{RMS} , 1kHz for 3,000 hours	<±5%RH
Organic solvent resistance	300 hours in Benzene 30Wt%, Toluene 30Wt%, Xylene 40Wt% mixing solution.	<±5%RH
Shock resistance	Drop down 3 times at random onto a hard plate from the height of 75cm.	Not to be abnormal in the appearance and electrical characteristics
Vibration resistance	Vibration tested 2 hours each in the directions of X-Y-Z, at the frequency of 10~55Hz and amplitude of 1.5mm(10-55-10)	
Resistance to soldering heat	Soldering temperature 260±5℃ for 3 sec.	
Strength of terminations	Lead terminal shall be pulled with 500g for 10 seconds in the axial direction of lead terminal	

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