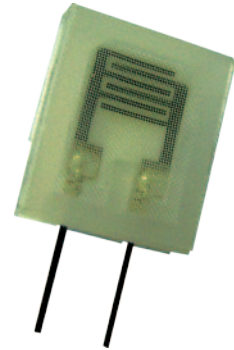


# Humidity Sensor HS30P

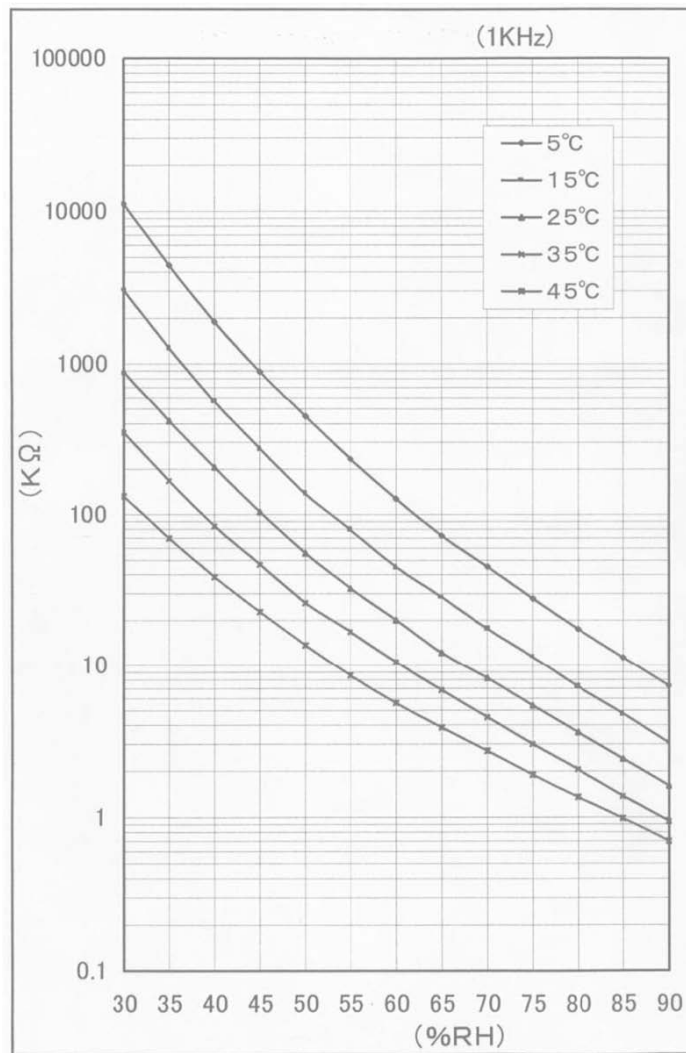


## Characteristics of Humidity Sensor

- Part name : Humidity sensor
- Type name : HS-30P
- Storage temperature : -20~70 °C
- Storage humidity : 20~90 %RH (Without condensation)
- Operating humidity range : 20~90 %RH (Do not let it have dewdrops)
- Operating temperature range : -20~60 °C
- Rated working voltage : AC 1 V (50Hz~1KHz)
- Rated power : 0.3 mW
- Nominal impedance value : 55 k $\Omega$  ( 25°C, 50%RH)
- Tolerance on impedance value : Min 32.3k $\Omega$  / Max 99.7 k $\Omega$
- Typical sensitive characteristics : shown in Figure 1
- Typical response characteristics : shown in Figure 2
- Dimensions : shown in Figure 3
- Reliability (Impedance value change as relative humidity at 25°C, 50%RH)
  - Dry heat storage : <math>\pm 5\%</math> RH ( 70°C, 1000 hr.)
  - Cold storage : <math>\pm 5\%</math> RH (-25°C, 1000 hr.)
  - Damp heat storage : <math>\pm 5\%</math> RH ( 60°C $\pm$ 5°C, 90~95%RH, 1000 hr.)
  - Heat cycle test : <math>\pm 5\%</math> RH (-25°C~70°C, 500 cycles)
  - Low humidity storage : <math>\pm 5\%</math> RH ( 25°C, 20 %RH, 1000 hr.)

# HS30P Humidity Sensor Specifications

Figure 1 : Typical Sensitive Characterists

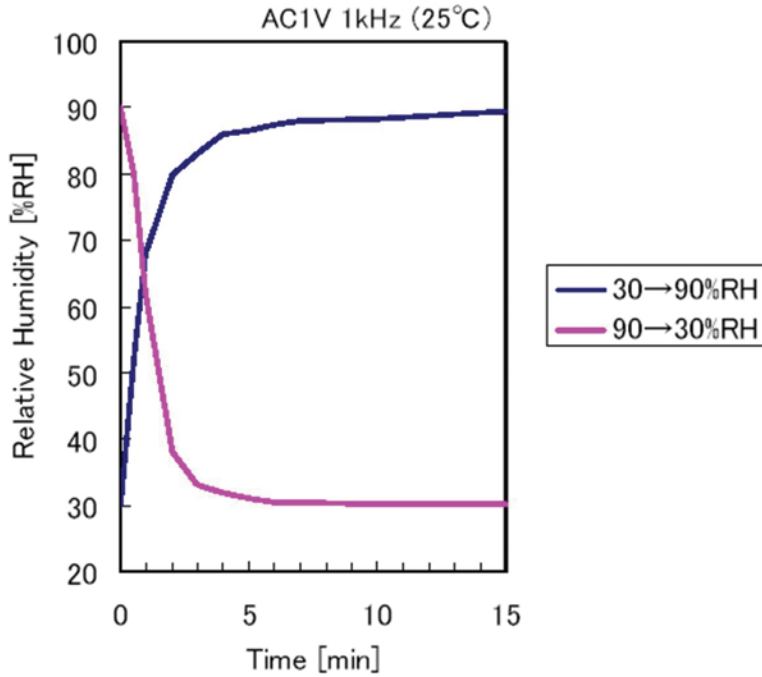


(Unit : Kohm)

$\frac{\%RH}{^\circ C}$	30	40	50	60	70	80	90
5	11300	1980	460	138	48	17.8	4.5
15	3380	620	155	51	19.5	8	3.4
25	1020	215	62	22	8.6	3.6	1.6
35	360	83	27	9.9	4.2	1.9	0.9
45	150	36	12.9	5.2	2.3	1.1	0.5

# HS30P Humidity Sensor Specifications

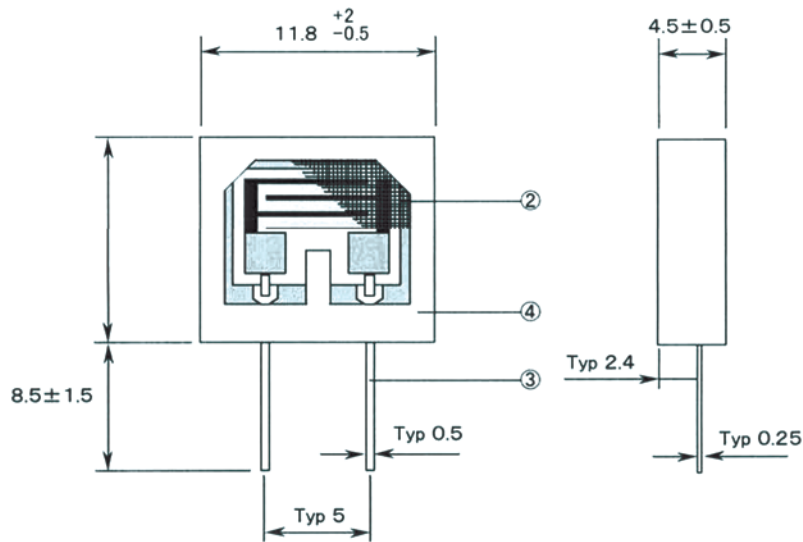
Figure 2 : Typical Response



## Recommended Handling Practices:

- Use only within specified conditions.
- Do not disassemble or change any parts.
- Do not touch sensor element.
- Do not apply any direct current to the sensor.
- Do not touch the film and the surface of the sensor.
- In use and stock, freezing, dust, mist, oil, alcohol, corrosive gases or any other dirty/anomalous ambient may cause degradation of the sensor's characteristics.
- Protect the sensor film from flux/fume and high temperature during the soldering.
- Do not put sensor in water.

Figure 3 : Dimensions (Unit : mm)



No	Part Name	Material
1	Humidity Sensor	HS-30P
2	Filter	Mesh
3	Lead	PBR
4	Case	Polypropylene (Color : White)

**Amphenol**  
**Advanced Sensors**

[www.amphenol-sensors.com](http://www.amphenol-sensors.com)

© 2015 Amphenol Corporation. All Rights Reserved. Specifications are subject to change without notice.

AAS-930-172A - 09/2015

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Board Mount Humidity Sensors](#) category:*

*Click to view products by [Amphenol](#) manufacturer:*

Other Similar products are found below :

[HSHCAA114A](#) [SI7013-A10-IM1](#) [GXHTC3](#) [3.000.466](#) [CC2D35S-SIP](#) [CC2D33S-SIP](#) [CC2D33-SIP](#) [CC2D23S-SIP](#) [CC2D23-SIP](#) [251-10509](#)  
[HDC1050DMBR](#) [HIH6131-021-001](#) [HIH-4000-004](#) [HIH-4000-003](#) [HIH-4000-002](#) [HIH7120-021-001](#) [HIH6130-021-001](#) [1-101625-01](#)  
[HIH6021-021-001](#) [SHT35-DIS-B](#) [HDC2010YPAR](#) [SHT31-DIS-F2.5kS](#) [1-101466-01](#) [1-101465-01](#) [SYH-2R](#) [CC2D25S-SIP](#) [CC2D35-SIP](#)  
[HSHCAA006A](#) [HSHCAL101B](#) [CC2A23](#) [CC2A25](#) [CC2A33](#) [CC2A35](#) [CC2D23](#) [CC2D23S](#) [CC2D25](#) [CC2D25S](#) [CC2D25-SIP](#) [CC2D33](#)  
[CC2D33S](#) [CC2D35](#) [CC2D35S](#) [HS12SP](#) [HS20](#) [HS30P](#) [BME280](#) [087EPE02911](#) [087SPET01911](#) [HIH-4000-001](#) [HIH-4010-001](#)