

# HUMIDITY SENSORS : TYPE HU10

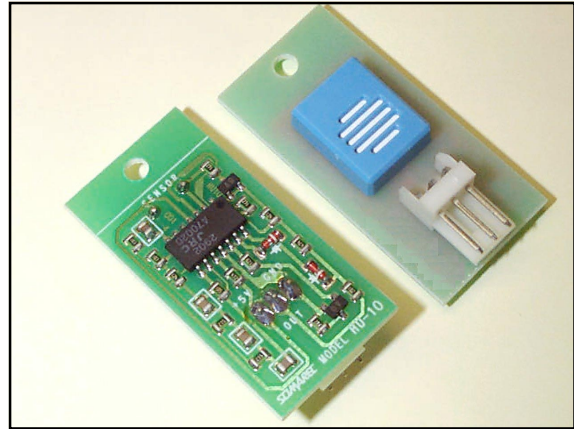
## RELATIVE HUMIDITY TRANSMITTER UNIT

### DESCRIPTION:

Non-refresh type humidity sensor made of polymer with transmitter.

### FEATURES:

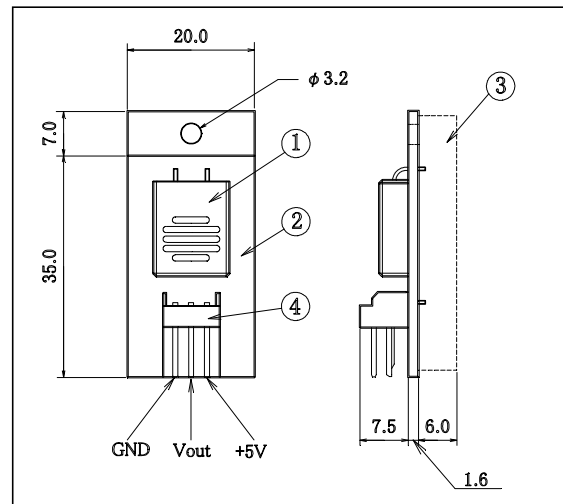
- Ready to use design
- Temperature compensated
- Operation up to 100%RH
- Good long term reliability
- Easy installation
- Cost effective performance
- Typical applications include humidity monitors, humidity controlles, air conditioners, humidifiers, dehumidifiers, automatic ventilation



### DATA:

	HU1012NA	HU1015NA
<b>Sensing element</b>	HS12P	HS15P
<b>Working voltage</b>	5 ± 0.2Vd.c.	
<b>Operating temperature</b>	0 - 50°C	
<b>Operating humidity</b>	10 - 90%RH	10 - 100%RH
<b>Storage temperature</b>	-30 - +50°C	-40 - +85°C
<b>Maximum current</b>	2mA	
<b>Output voltage</b>	1.0 - 3.0V d.c.	
<b>Accuracy</b>		
25-90% RH at 25°C	< ±5%RH	
Other range	< ±10%RH	
<b>dependence 5-45 °C/30-80% RH</b>	< ±5%RH	
<b>Typical response time</b>	1 minute	5 minutes

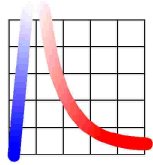
### DIMENSIONS:



### CODING:

HU1012NA: quick response type  
 HU1015NA: water resistant type

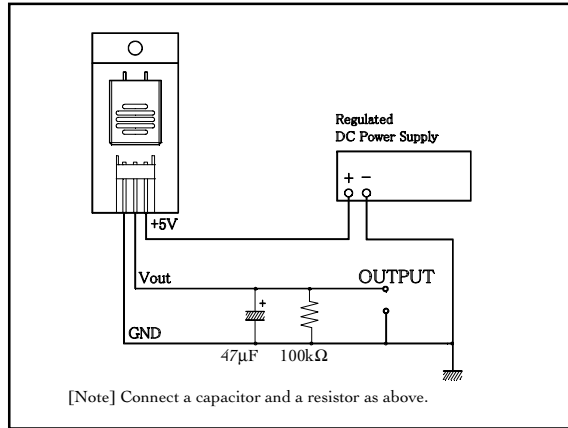
- 1. Humidity sensor** ..... HS12P or HS15P
- 2. Printed board** ..... Glass epoxy, 1.6mm thick
- 3. Parts mounted area**
- 4. Connector** ..... AMP 171826-3



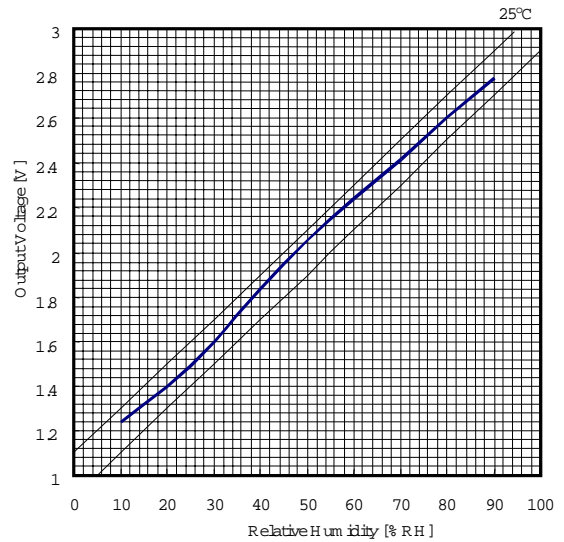
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### MEASUREMENT CIRCUIT:



### TYPICAL OUTPUT CHARACTERISTICS:



### WARNING:

Use only within the specified ratings.  
Do not disassemble and change any parts.