

## HUMIDITY SENSORS : TYPE HU10

### RELATIVE HUMIDITY TRANSMITTER UNIT

#### DESCRIPTION:

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

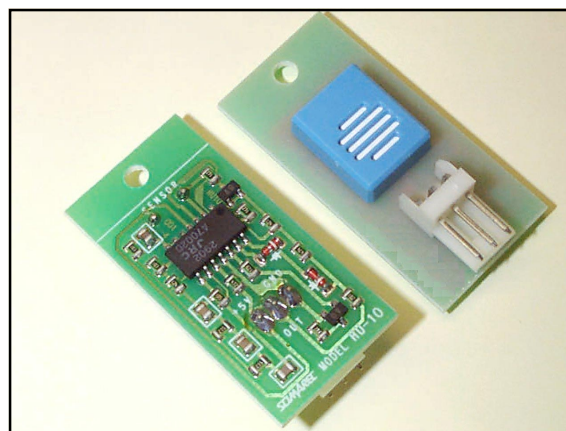
#### FEATURES:

- 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 controllers, air conditioners, humidifiers, dehumidifiers, automatic ventilation

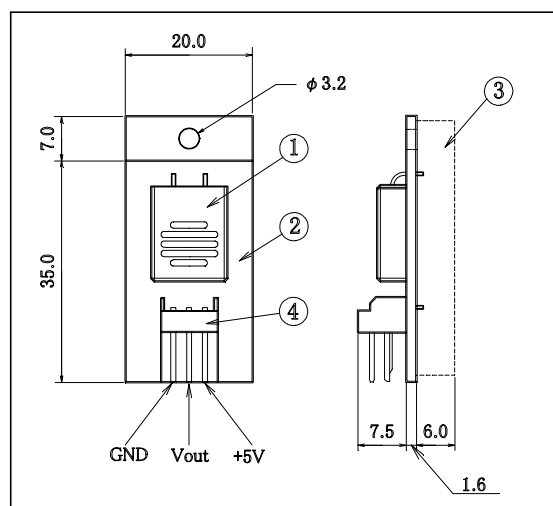
#### DATA:

732849

|                                     | 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:

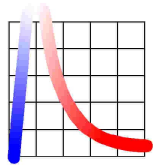


#### CODING:

HU1012NA: quick response type

HU1015NA: water resistant type

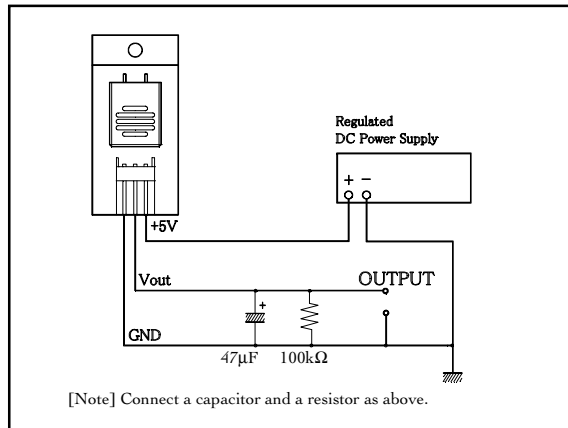
1. Humidity sensor ..... HS12P or HS15P
2. Printed board ..... Glass epoxy, 1.6mm thick
3. Parts mounted area
4. Connector ..... AMP 171826-3



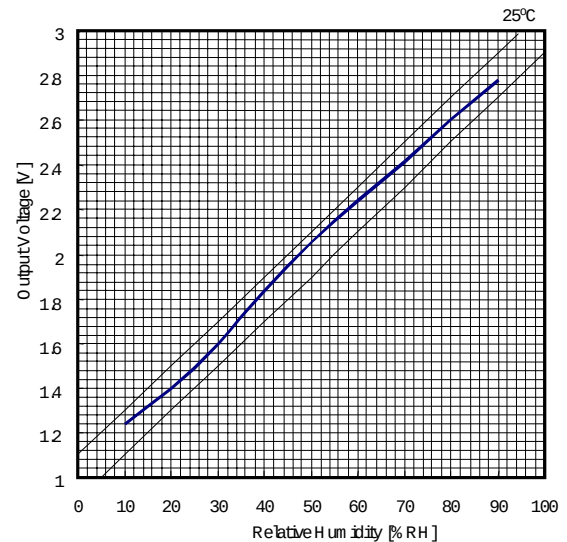
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## RELATIVE HUMIDITY TRANSMITTER UNIT

### MEASUREMENT CIRCUIT:



### TYPICAL OUTPUT CHARACTERISTICS:



### WARNING:

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

Data sheet D-HU10-1

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