

## Humidity Sensor

Model C7-M3

The SHINYEI HUMENT Type HPR-MQ is a humidity device formed by distributing a humidity sensitive macro-molecule onto an electrode substrate. The resistance of the device varies exponentially with variation on Relative Humidity.

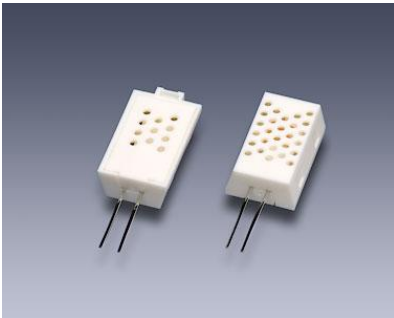
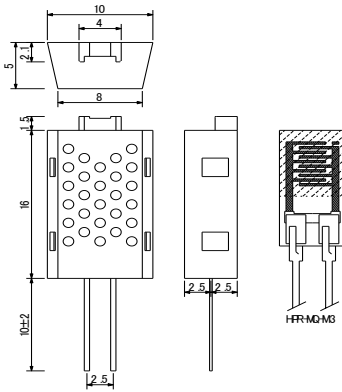
Feature	Application
Wide humidity operating range	Air-conditioner, Humidifier, Dehumidifier
Outstanding repeatability	Humidity Controller, Humidity Transmitter
Long-term stability	Hygrometer, Hygro-recorder
Low hysteresis	Copying machine
Small and light-weight	Clock, Weather-forecast barometer

### Characteristic

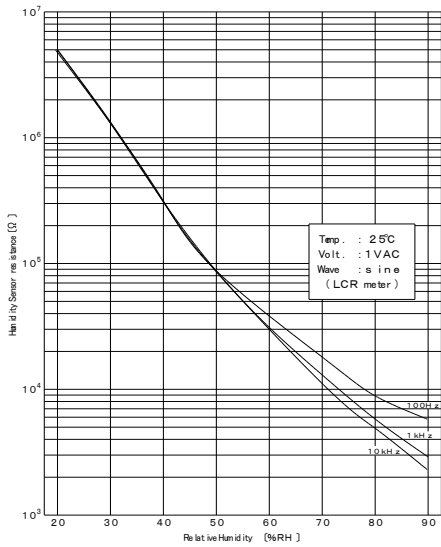
Model	C7-M3
Humidity Sensor element	Shinyei Hument HPR-MQ-M3
Rated Voltage	5 VAC (Max.)
Rated Power	5mW. AC (Max.)
Operating Temperature Range	-20 °C to 70°C
Operating Humidity Range	95%rh or less
Standard Humidity Resistance	31k Ohm (at 25°C, 60%rH, 1kHz)
Humidity Measurement Accuracy	Sensor screened +/-5%rh (at 25°C, 60%rh, 1kHz) +/-3.5%rh(at 25°C, 60%rh, 1kHz) is available
Temperature Dependence	0.6%rh/°C
Material of Sensor Housing	ABS
Color of Sensor Housing	Ivory
Dimension	10 x 27.5 x 5 mm

**Confiuration (dimensions in mm)**

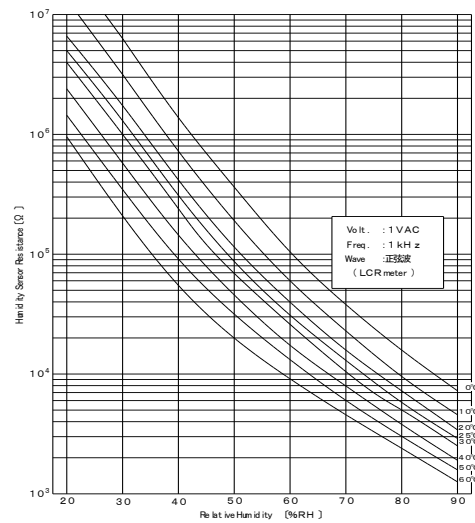
**C7-M3**



**Normal Characteristics**



<Frequency Characteristics>



<Temperature Characteristics>

**Remark; We have the right to revise specifications and product configurations without notice.**

**Caution for use**



- ! Avoid inputting DC voltage directly to Humidity Sensor.
- ! Avoid condensation and drenching.
- ! Avoid application of the Humidity Sensor in the salt, inorganic gases and organic gases.