

Humidity Sensor

Model. C5-M3 & 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

Characteristics

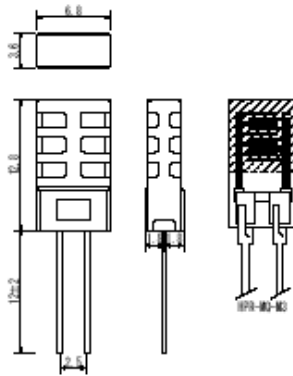
Model	C5-M3	C7-M3
Humidity Sensor element	Shinyei Hument HPR-MQ-M3	
Rated Voltage	5 VAC (Max.)	
Rated Power	5mW. AC (Max.)	
Operating Temperature Range	-20 to 60deg. C	-20 to 70deg. C
Operating Humidity Range	95%rh or less	
Standard Humidity Resistance	31k Ohm (at 25deg. C, 60%rh, 1kHz)	
Humidity Measurement Accuracy	+/-5%rh(at 25deg. C, 60%rh, 1kHz) +/-3.5%rh(at 25deg. C, 60%rh, 1kHz) is available	
Temperature Dependence	0.6%rh/deg. C	
Material of Sensor Housing	ABS	
Color of Sensor Housing	White	Ivory
Dimension	6.8 x 24.8 x 3.6 mm	10 x 27.5 x 5 mm

Specification sheet of C5/C7-M3 June 1, 2004 (Page 2 of 2)

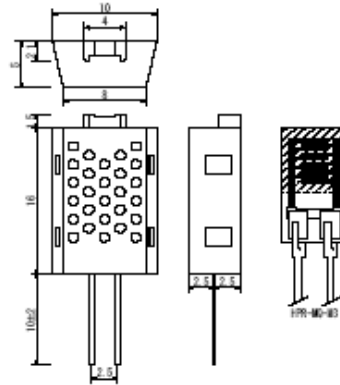
Configuration

(Dimensions in mm)

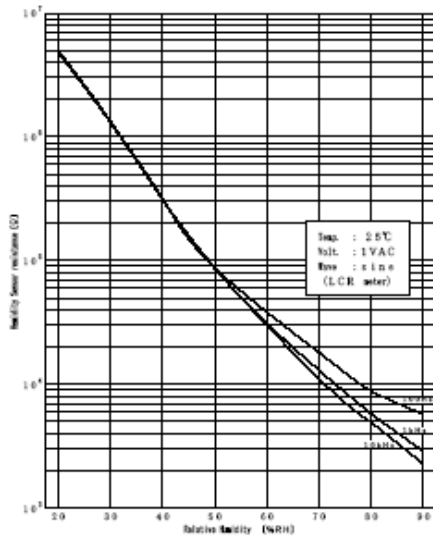
C5-M3



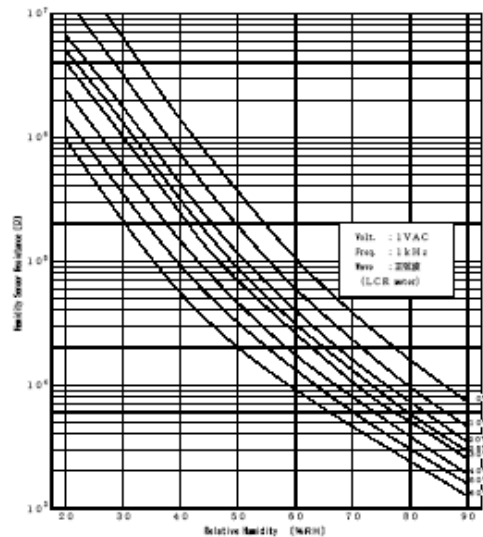
C7-M3



Nominal 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.

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