



# Humidity Sensor Module

Linear voltage output

Model. RHU-222 & RHU-223

The SHINYEI HUMENT Type HPR-MQ is a humidity sensor formed by depositing a humidity sensitive macro-molecule onto an electrode substrate. The resistance of the sensor varies exponentially with variation of Relative Humidity. SHINYEI RHU series modules consist of an HPR-MQ sensor and an integrated circuit to provide a linear DC Voltage output for 0-100%rh to enable easy user application of the HPR-MQ sensor. They are specifically designed for use in appliances and controllers.

Feature
Wide humidity operating range
Linear DCV output
Easy operation
Long-term stability
Small and economical

Application
Air-conditioner, Humidifier, Dehumidifier
Humidity Controller, Humidity Transmitter
Hygrometer, Hygro-recorder
Copying machine
Clock, Weather-forecast barometer

## Characteristics

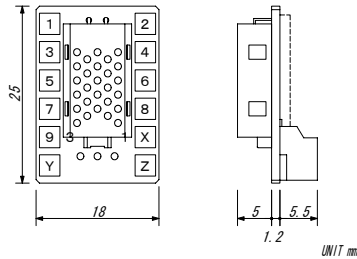
	RHU-222	RHU-223
Humidity Sensor	Shinyei Humidity Sensor HPR-MQ	
Temperature Sensor	N/A	Thermistor
Input Voltage	5 VDC +/-5%	
Consumption	Less than 5mA (Av. 2mA)	
Operating Temperature Range	-20 to 60deg. C	
Operating Humidity Range	95%rh or less	
Humidity Output	0 to 3.3 VDC	
Humidity Measurement Accuracy	*Linear output for 0 to 100%rh full scale +/-5%rh (at 25deg. C, 60%rh, Vin = 5.00 VDC)	
Temperature Output	N/A	Resistance output
Temperature Detecting Accuracy	N/A	R(25deg. C)=50k Ohm +/-5% B-value(25/50)=3970k +/-2%

Specification sheet of RHU-222/223 June 1, 2004 (Page 2 of 2)

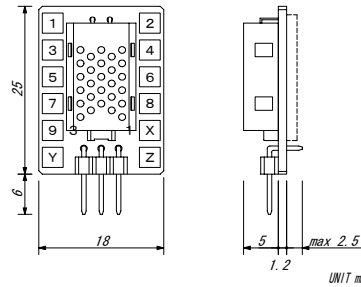
**Configuration**

RHU-222

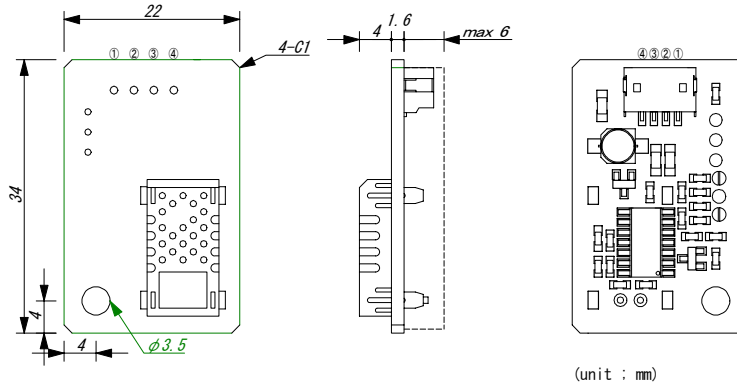
RHU-222A



RHU-222B



RHU-223A



(unit : mm)

**Ordering Information**

Model	Humidity output	Temperature output
RHU-222A	0-3.3VDC	N/A
RHU-222B	0-3.3VDC	N/A
RHU-223A	0-3.3VDC	Resistance

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

**Caution for use**



- ! Avoid condensation and drenching.
- ! Avoid application of the Humidity Sensor in the salt, inorganic gases and organic gases.



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