

Honeywell Sensing and Control

HIH-4000-002



HIH-4000 Series integrated circuit humidity sensor, 1,27 mm [0.050 in] lead pitch SIP

Actual product appearance may vary.

Features

- Molded thermoset plastic housing
- Near linear voltage output vs % RH
- Laser-trimmed interchangeability
- Enhanced accuracy, fast response
- Fast response time
- Stable, low drift performance
- · Chemically resistant

Potential Applications

- Refrigeration equipment
- HVAC equipment
- Medical equipment
- Drying
- Meteorology
- Battery-powered systems
- OEM assemblies

Description

The HIH-4000 Series Humidity Sensors are designed specifically for high volume OEM (Original Equipment Manufacturer) users. Direct input to a controller or other device is made possible by this sensor's near linear voltage output. With a typical current draw of only 200 μA , the HIH-4000 Series is often ideally suited for low drain, battery operated systems. Tight sensor interchangeability reduces or eliminates OEM production calibration costs. Individual sensor calibration data is available. The HIH-4000 Series delivers instrumentation-quality RH (Relative Humidity) sensing performance in a competitively priced, solderable SIP (Single Inline Package). Available in two lead spacing configurations, the RH sensor is a laser trimmed, thermoset polymer capacitive sensing element with on-chip integrated signal conditioning. The sensing element's multilayer construction provides excellent resistance to most application hazards such as wetting, dust, dirt, oils and common environmental chemicals.

Product Specifications	
Package Type	1,27 mm [0.050 in] lead pitch SIP
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Operating Humidity Range	0% RH to 100% RH
Interchangeability	0% RH to 59% RH \pm 5%, 60% RH to 100% RH \pm 8%
Hysteresis	3% RH
Response Time	15 s 1/e in slow moving air
Repeatability	±0.5% RH
Settling Time	70 ms max.

Max. Supply Voltage	5.8 Vdc
Max. Supply Current	500 μΑ
Stability at 50% RH	±1.2% RH
Output Signal	Analog voltage
Covered Device	No
Moisture/Dust Filter	No
Combined Humidity and Temperature Sensor	No
Calibration and Data Printout	No
Series Name	HIH-4000
Availability	Global



