

Honeywell Sensing and Control

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HIH-3602-L-CP

HIH Series Integrated circuit humidity sensor in TO-39 can with calibration and data printout

Features

- Linear voltage output vs %RH
- Linear voltage output vs %RH
- Laser trimmed interchangeability
- High accuracy
- Fast response
- Stable, low drift performance
- Chemically resistant
- Built-in static protection

Typical Applications

- Refrigeration
- Drying
- Meteorology
- Battery-powered systems
- OEM assemblies

Description

The HIH-3602-L IC (Integrated Circuit) Relative Humidity (RH) sensor delivers instrumentation quality RH sensing performance in a rugged, low cost, slotted TO-39 housing.

The RH sensor is a thermoset polymer capacitive sensing element with on-chip integrated signal conditioning. On-board signal conditioning reduces product development times while a typical current draw of only 200 μ A makes the HIH-3602-L perfect for battery powered systems.

RH SENSOR CONSTRUCTION

Sensor construction consists of a planar capacitor with a second polymer layer to protect against dirt, dust, oils and other hazards. The HIH-3602-L should be shielded from bright light.

Product Specifications	
Package Style	Slotted TO-39 can
Termination Details	0,46 mm [0.018 in]
Series Name	HIH Series
NIST Certification	NIST Calibration sensor-specific printout
RH Accuracy	± 2% RH, 0-100 % RH non-condensing, 25 °C, 5 VDC supply
RH Interchangeability	± 5% RH, 0-60% RH; ± 8% @ 90% RH Typical
RH Linearity	± 0.5% RH Typical
RH Hysteresis	± 1.2% of RH Span Maximum
RH Repeatability	± 0.5% RH
RH response time, 1 / e	30 s in slowly moving air @ 25 °C
RH Stability	± 1% RH Typical at 50% RH in 5 Years
Supply Voltage	4.0 Vdc to 5.8 Vdc
Supply Current	200 µA Typical
Operating Humidity Range	0 to 100% RH, non-condensing
Operating Temperature Range	-40 °C to 85 °C (-40 °F to 185 °F)
Temperature Compensation	True RH = Sensor RH/(1.0546-0.00216T) T in °C (True RH = Sensor RH/(1.093-0.0012T) T in °F)
Availability	Global
Comment	Light sensitive, shield from bright light.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers

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