

L02-03-0103 Wall Mounted Temp. and RH Sensor



Product Description

The L02-03-0103 Temperature and RH sensor converts a resis-tance to a linear 0 to 10 VDC output.

The Advanced Ceramic Technology design overcomes the limita-tions of other resistance-based humidity sensors that utilize water soluble polymer coatings. The Advanced Ceramic Technology en-ables these sensors to fully recover from condensation. This allows the sensor to maintain its accuracy over a longer period of time. Despite its accuracy, the Advanced Ceramic Technology sensor and related circuitry is economical.

Field calibration is achieved by toggling either the increment or decrement dip switch. Each toggle will allow for a +/-0.5% RH in-crease or decrease.

Accuracy is maintained over the operating range, using a thermis-tor for temperature compensation. Precision production tolerances maintain sensor interchangeability to within +/- 3% nominal without recalibration.

Each L02-03-0103 humidity sensor is calibrated at 3 different points, using an NIST Traceable Temperature/Humidity chamber.

Technical Data

Supply Voltage Operating Temp Operating RH Output Interchangeability Long Term Stability Accuracy @ 77oF Response Time Saturated Response Time Sensitivity Repeatability Hysteresis Temp Sensor Output Temp Sensor Accuracy

- 500 Ohm Load: +18 to 36 VDC / 24 VAC
- -10 to 160oF (-23.3 to 71oC)
- 0 to 100% RH
- 0-10 VDC
- +/- 3% from 20 to 95% RH
- < +/- 3% RH nominal
- Less than 2% RH Drift / 5 Years
- 30 seconds for 63% Step
- 10 minutes for 63% Step
 0.1% RH
- 0.1% RH
- 0.5% RH
- Less than 0.4% RH
 10K Ohms @ 25oC (77oF)
- +/- 0.20C (0-700C)

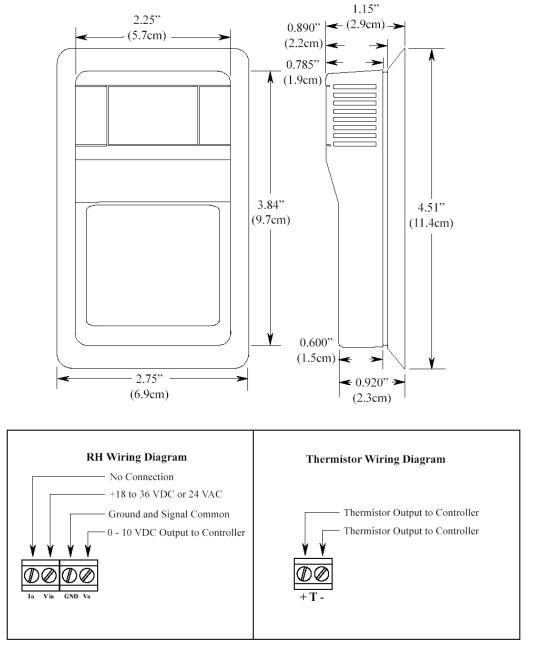




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Device Detail





Ordering Information

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Model #	Description
L02-03-0103	RH Wall Mount Sensor with 10K Ohm Termistor