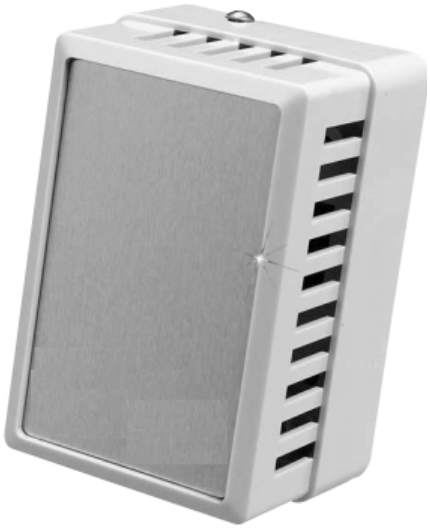
Indoor Humidity and Temperature Sensor

The Indoor Humidity and Temperature Sensor (Part No. 960-001-0015) is a combination dual output, relative humidity / temperature sensor. A thin film temperature compensated, polymer capacitor senses relative humdity while a solid-state temperature sensor measures ambient temperature. When the sensor is excited with a constant voltage from the Summit or siteCOMMANDER, 1 - 5 VDC outputs are provided for both measured parameters via a terminal strip connection.



General Specifications

Cable length	10 feet
Calibrated	Factory calibrated, no field calibration required
Enclosed material	Acrylonitrile butadiene
Dimensions	3.12″ L x 2.12″ W x 1.78″ H (79 mm L x 54 mm W x 45 mm H)
Weight	0.12 lb (54 g)

Relative Humidity Specifications

Range	5 - 95% (non-condensing)
Accuracy @ 25°C	From 5 - 20%, ± 4% RH From 20 - 80%, ± 3% RH From 80 - 95%, ± 4% RH
Repeatability	± 1% RH
Temperature Compensation Range	5 to +140°F (-15 to 60°C)
Output	1 - 5 VDC (scale for 0 to 100% RH)
Power	12 - 24 VDC @20 mA
RH Time	100 seconds from 20 - 90%, 60 seconds from 90 - 20%
Sensor Type	Thin film polymer capacitor
Formula	% RH = V * 25 - 25

Temperature Specifications

Range	5 to +140°F (-15 to 60°C)
Accuracy @ 25°C	In Still Air: ± 1.2°F (0.7°C) @ 25°C ± 2.5°F (1.4°C) across full range In Moving Air: ± 2.5°F (1.4°C) @ 25°C ± 3°F (1.7°C) across full range Note: Not recommended for fast moving air applications.
Repeatability	± 0.5°F (0.3°C)
Temperature Time Constant	For 63.2% response: 9 seconds in moving air (1 M/sec.) 30 seconds in still air
Output	1 - 5 VDC (scaled across range)
Power	12 - 24 VDC @ 20 mA
Sensor Type	Solid state
Formula	Temp. (°F) = V * 33.75 - 28.75 Temp. (°C) = V * 18.75 - 33.75

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