

Temperature and Humidity Sensor · THS-0080

The THS-0080 indoor Temperature Sensor is a low-cost sensor which combines temperature and humidity measurements. It comes standard with 230mm (9in) pigtail* wiring for easy connection to the Davicom units.

Working temperature range is 0°C to +80°C with a measurement accuracy of ±0.9°F (±0.5°C) and working humidity range is 0%RH to 100%RH with a measurement accuracy of ±3%.

The THS-0080 features linear (10 mV/°C, 30 mV/%RH) scale factors. The measured output voltages can be easily converted to either °F, °C or %RH using the following formulas:

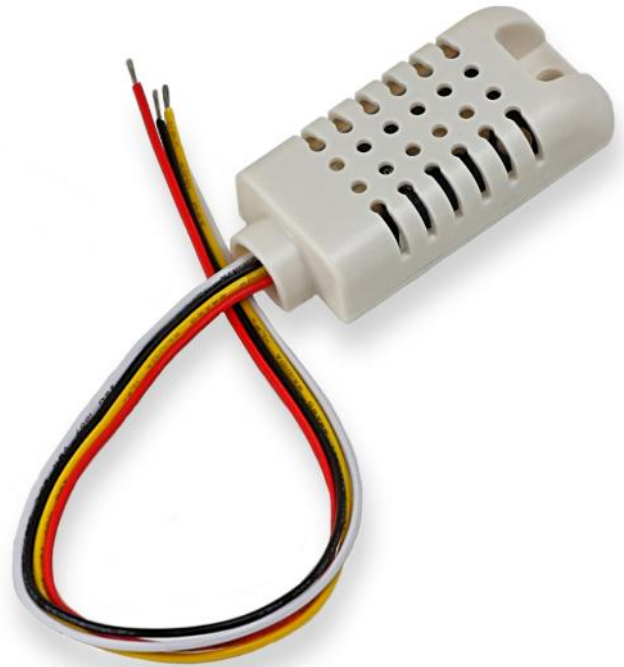
$$T (°F) = [V_{out} \times 180] + 32$$

$$T (°C) = V_{out} \times 100$$

$$RH(\%) = V_{out} \times 33.3$$

ABC coefficients for the Davicom DV line of Remote Monitoring Systems are:

Degrees F: A=0 ; B=180 ; C=32
 Degrees C: A=0 ; B=100 ; C=0
 % RH: A=0; B = 33.33; C=0



Maximum output voltages are: 0.8 V @ 80°C for temperature measurements and 3 V @ 100%RH for humidity measurements.

Dimensions are 58mm x 27 mm x 14 mm (L x W x H).

*Contact factory for custom pigtail lengths.

ELECTRICAL CONNECTION	
Red wire	Power supply (4.5-6 VDC)
Yellow wire	Humidity output (0-3 V)
White wire	Temp. output (0-0.8 V)
Black wire	GND

