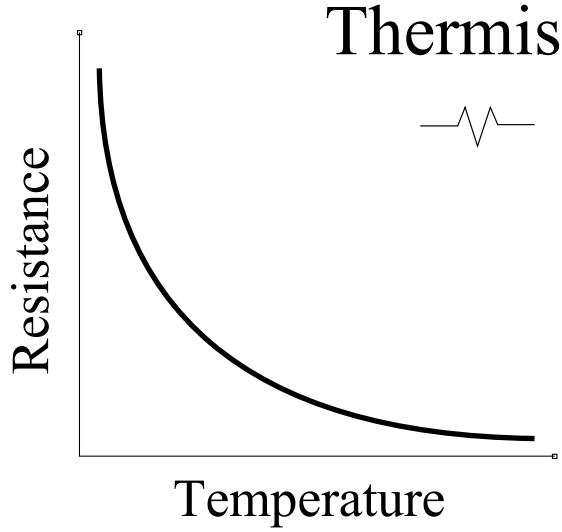
TEMPERATURE SPECIALISTS, INC.

Thermistor Temperature Sensors

	Output Characteristics
• High resistance values • Large resistance change • Two wire ohms measurement • Low sensor cost • Small size / fast response	Advantages
• Limited temperature range • Current source required • Nonlinear • Self heating • Fragile	Disadvantages
-80 to 300°C	Temperature Range

Thermistors are constructed with metal oxides formed into a bead and encapsulated in epoxy or glass. The resistance of a Thermistor has a nonlinear large negative change as it is heated (Negative temperature coefficient). The change in resistance during a temperature change of a Thermistor is several times greater than an RTD making measurement easier, but the temperature range is limited.

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